



Lepidoptera America

Auto-completed Monograph

By Christophe Avon



16

All pictures with types on **WAS Archives Master Folder** :

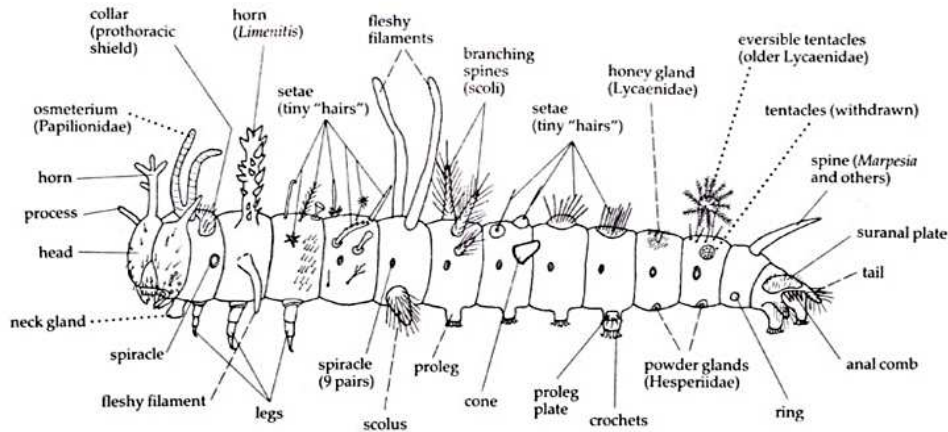
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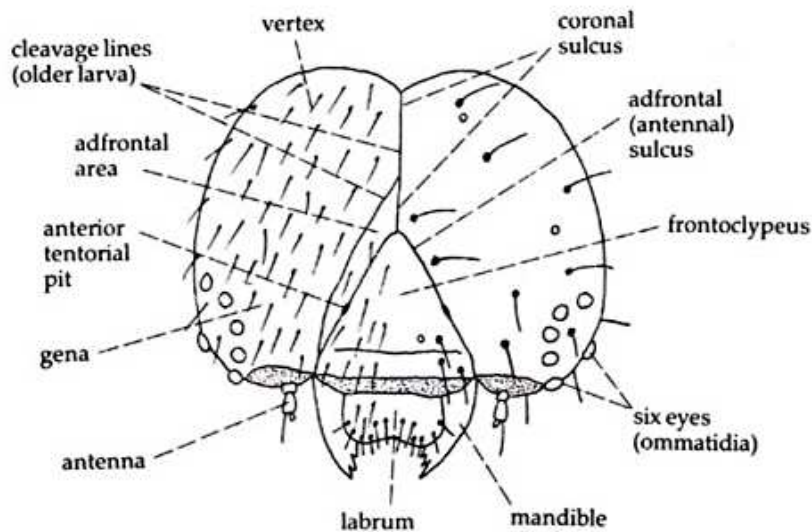
ANATOMY



A composite drawing of all the parts that occur on various butterfly larvae. The type of line from each part's name shows whether that part is hardened (solid line), fleshy and fixed in position (dashed), or fleshy and usually withdrawn into the body (dotted). Scoli (branching spines) are hardened in older larvae, but in young larvae (of Nymphalidae and Papilioninae) they tend to be more fleshy. The six thoracic legs have the same segments as adult legs (Fig. 14), except that in the larva the tarsus has only two segments (the second a claw) and the trochanter and femur are fused. Ten prolegs occur in pairs on abdominal segments 3-6 and 10. Spiracles (breathing holes) occur on the sides of the prothorax and abdominal segments 1-8 (they are larger on the prothorax and on abdominal segment 8). A ring has a hardened rim, as does a spiracle, but is probably a gland. The anal comb, when present, flips away the pellets.

From Scott, J.A. 1988. The butterflies of North America. A natural history and field guide. Stanford University Press, Stanford, California, pp. 11, fig. 1

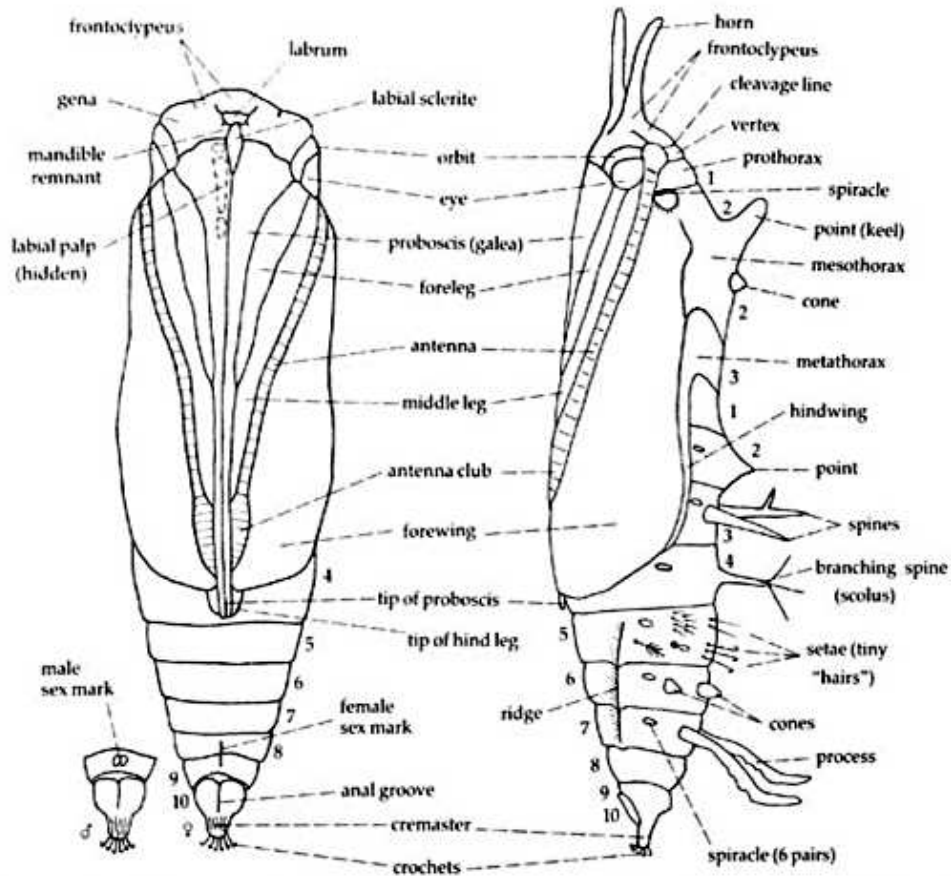
MATURE LARVA FIRST-STAGE LARVA



The larval head, from the front. Soft (membranous) areas are stippled. The mature larva (left side) has many hairs. The cleavage lines usually appear in the third- or fourth-stage larva but do not split until pupation. Two internal ridges (each adfrontal sulcus) join an internal inverted-Y-shaped ridge (the coronal sulcus) to strengthen the head

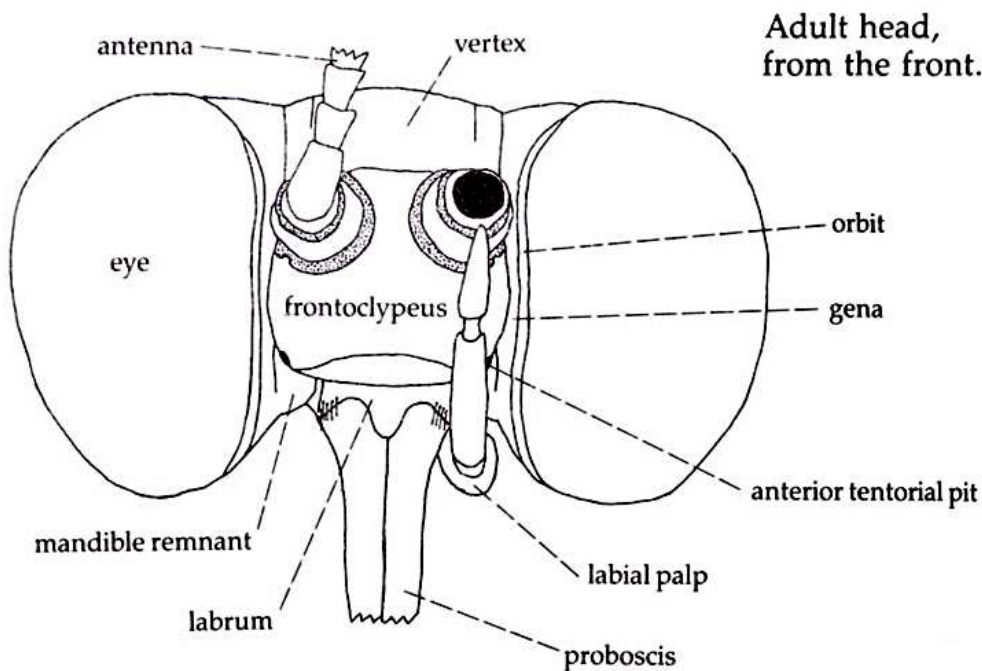
The two cleavage lines run from near the mandibles to the back of the head, and at the coronal sulcus they dive beneath the surface and run beside each other along the base of the Y. The first-stage larva (right side) has few tactile hairs; like the mature larva it has olfactory pits (small circles; the pit on the frontoclypeus is in all butterflies). True ocelli are absent in butterflies; the larval eyes (ommatidia) are often wrongly called ocelli.

Image from: Scott, J.A. 1988. The butterflies of North America. A natural history and field guide. Stanford University Press, Stanford, California, pp. 11, fig. 2



Pupal structures, from below.

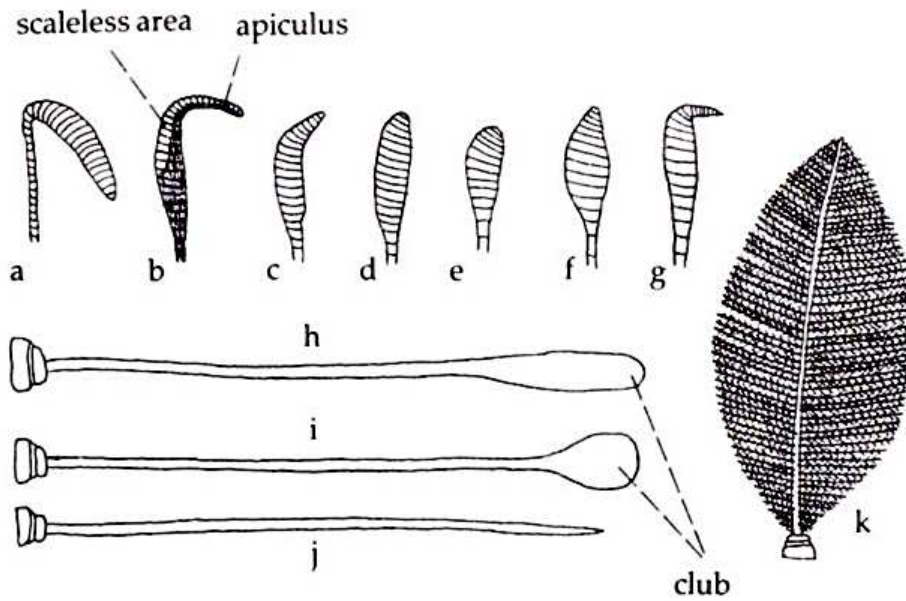
A composite drawing of all the parts that occur on various butterfly pupae, from the left side.



Adult head, from the front.

Image from: Scott, J.A. 1988. The butterflies of North America. Stanford University Press, Stanford, California, pp. 12, figs 5 & 8

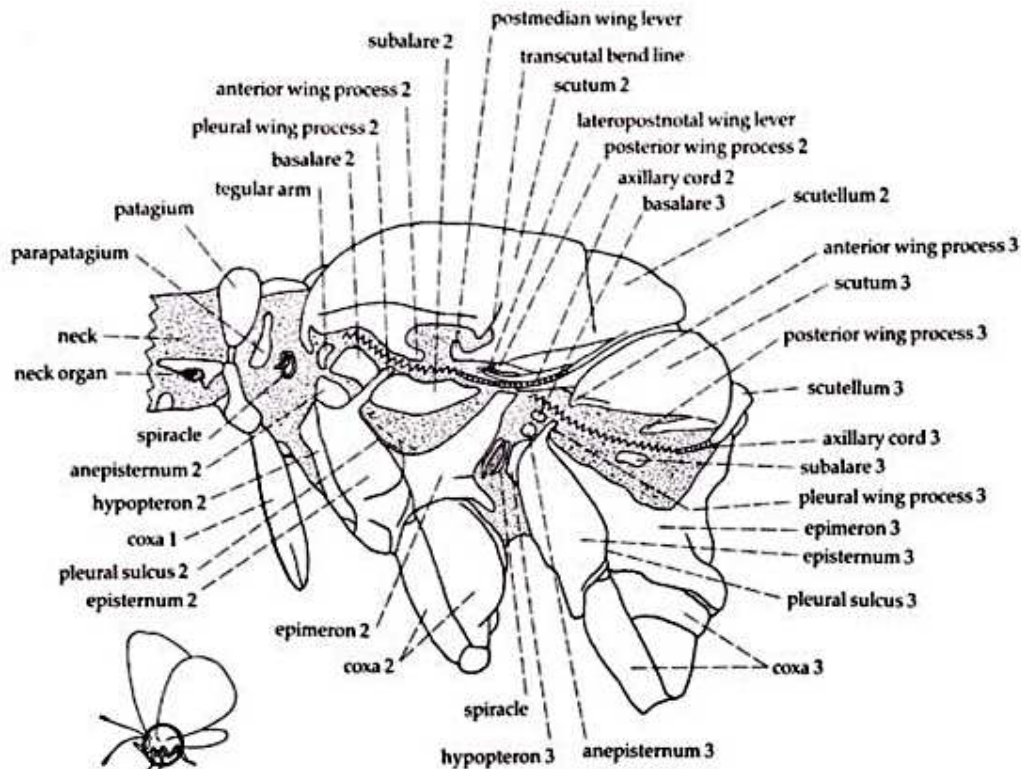
Image from: Scott, J.A. 1988. The butterflies of North America. Stanford University Press, Stanford, California, pp. 14, fig. 6



Antennae of adults: *a-g*, skippers; *h*, *i*, other butterflies; *j*, rarely *k* or *h*, moths. *a*, *Pyrrhopyginae*; *b*, *Epargyreus* (most *Pyrginae* are similar); *c*, *Pholisora*; *d*, *Pyrgus* and *He-liopetes*; *e*, *Piruna* (*Carterocephalus*, *Copaeodes*,

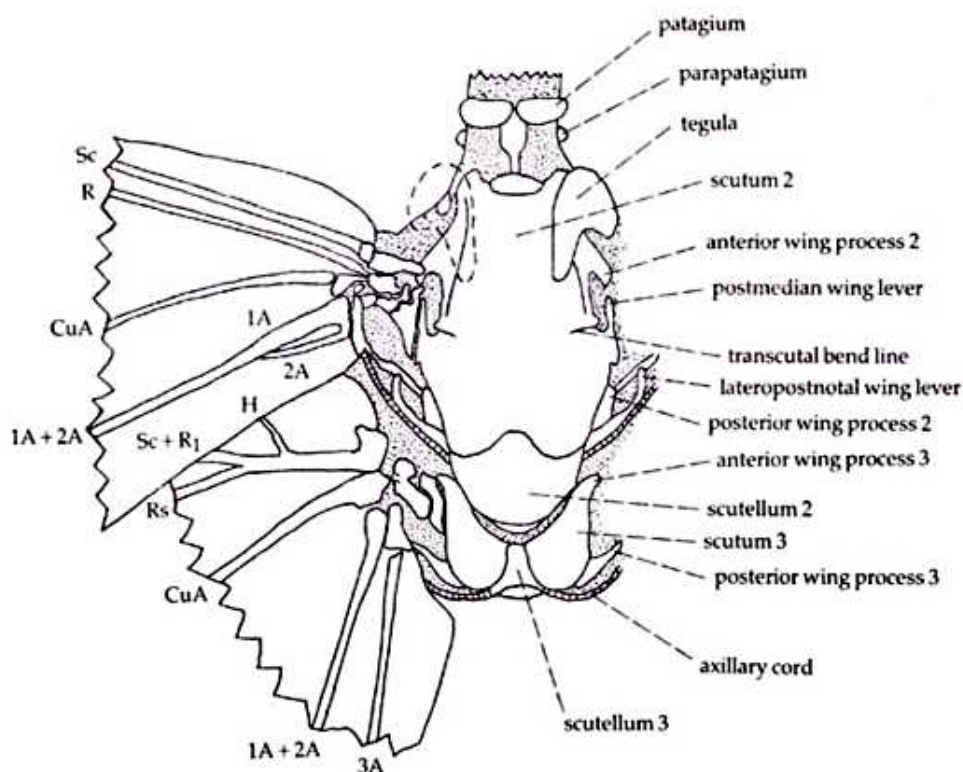
Ancyloxypha, *Oarisma*, *Pseudocopaeodes*, *Yvretta* are similar); *f*, *Megathymus*; *g*, *Poanes* (most *Hesperiinae* are similar); *h*, most butterflies and a few moths; *i*, some *Nymphalidae*, some *Pieridae*, *Libytheidae*; *j*, most moths; *k*, some moths (*Cecropia* Moth, etc.).

Image from: Scott, J.A. 1986. The butterflies of North America. A natural history and field guide. Stanford University Press, Stanford, California, pp. 16, fig. 11



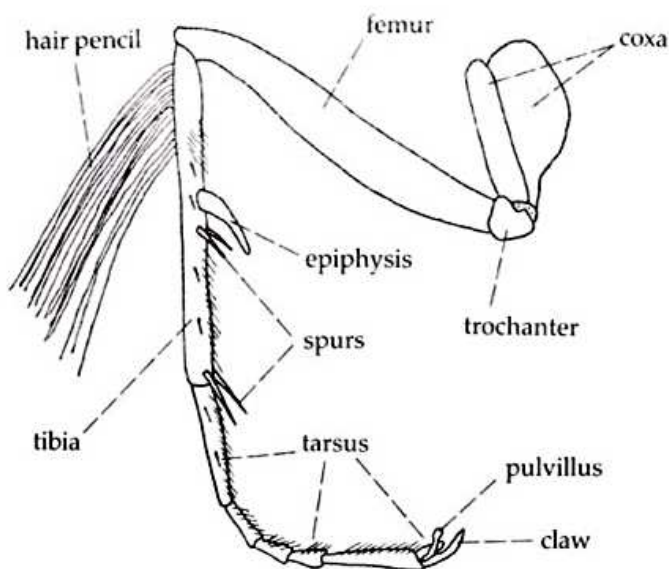
A composite drawing of the adult thorax, from the left side with the legs and wings removed, showing all the parts that may occur there in butterflies. Soft (membranous) areas are stippled. The numbers indicate the thoracic segment: 1, prothorax; 2, mesothorax; 3, meta-thorax. The wings attach at the zigzags, and the wing bases pivot on the pleural wing processes like oars on a rowboat. The muscles from the furcae attach just below the pleural wing processes to keep the bottom of the thorax taut during flight.

Image from: Scott, J.A. 1986. The butterflies of North America. A natural history and field guide. Stanford University Press, Stanford, California, pp. 16, fig. 12



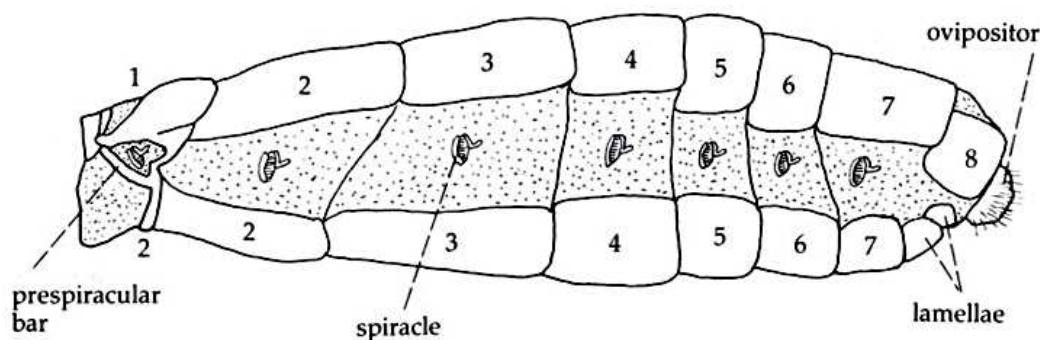
The adult thorax, from the top with the right wings and left tegula removed. Soft (membranous) areas are stippled. The numbers beside the names of the structures refer to the thoracic segments on which they occur: 1, prothorax; 2, mesothorax; 3, metathorax. Small hardened parts (axillary sclerites; see Fig. 61) flexibly connect the top of the thorax to the wing; the central one pivots on the pleural wing process (Fig. 12). The tegulae streamline the body during flight and insulate the wing bases.

Image from: Scott, J.A. 1986. The butterflies of North America. A natural history and field guide. Stanford University Press, Stanford, California, pp. 45, fig. 13.



The usual parts of adult legs. The hair pencil and upper spurs occur only in some skippers, the epiphysis only in the fore-legs of skippers and Papilionidae. The coxa is joined to the thorax and moves very little.

Image from: Scott, J.A. 1986. The butterflies of North America. A natural history and field guide. Stanford University Press, Stanford, California, pp. 45, fig. 14.



The adult female abdomen, from the left side. Soft (membranous) areas are stippled.

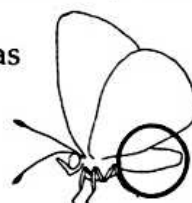
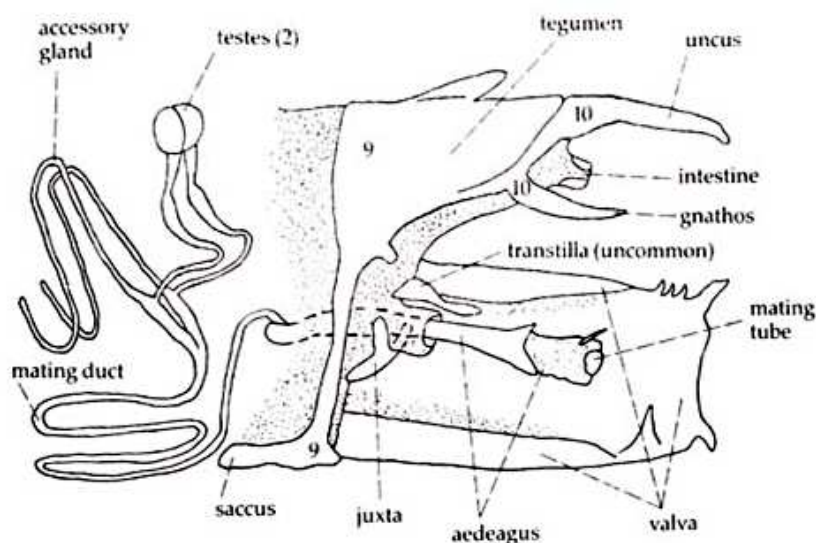
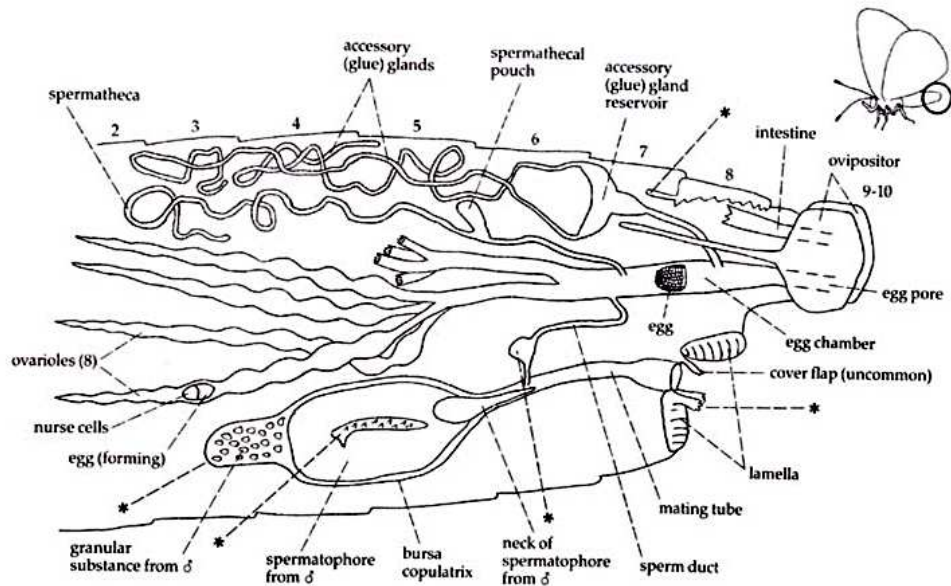


Image from: Scott, J.A. 1936. The butterflies of North America: A natural history and field guide. Stanford University Press, Stanford, California, pg. 15, fig. 19



A composite drawing of the male reproductive structures, which are useful for identifying some species. Illustrated are the structures on the last abdominal segments and the internal organs, as well as some uncommon structures. During mating, the uncus and gnathos fit beneath the female's ovipositor, the valvae grasp her abdomen from beneath, and the aedeagus—its membranous and sometimes spiny tip evert—extends out of its membranous sheath into her mating tube as far as her bursa copulatrix. The projection above the tegumen is rare (present in *Colias*, some *Anteos*, and some other Coliadinae). The uncus is usually single but may be forked. The gnathos usually has left and right parts, but they may join into one. Hardened parts may be above the intestine (in some *Speyeria*, etc.) or below it (in some Pieridae, *Lycaena*, etc.). The transtilla is uncommon (present in some metalmarks, for example).

Image from: Scott, J.A. 1936. The butterflies of North America: A natural history and field guide. Stanford University Press, Stanford, California, pg. 34, fig. 28



Female reproductive structures (all except those with an asterisk are typical of most butterflies). The lamellae are variable and may be absent. The cover flap occurs only in all Papilioninae, Coliadinae, and Pierinae. Projections from the lamella may occur above the mating tube in Lycaeninae or below it in *Papilio*.

Image from: Scott, J.A. 1986. The butterflies of North America. A natural history and field guide. Stanford University Press, Stanford, California, pg. 30, fig. 10

Names of the wing veins and cells. The area between veins at the wing base is the "cell" or "discal cell," whereas the other cells take their names from the vein in front of them; for instance, cell M₁ is behind vein M₁. (Cells too small to label are named from the vein in front of them, as are the other cells.)

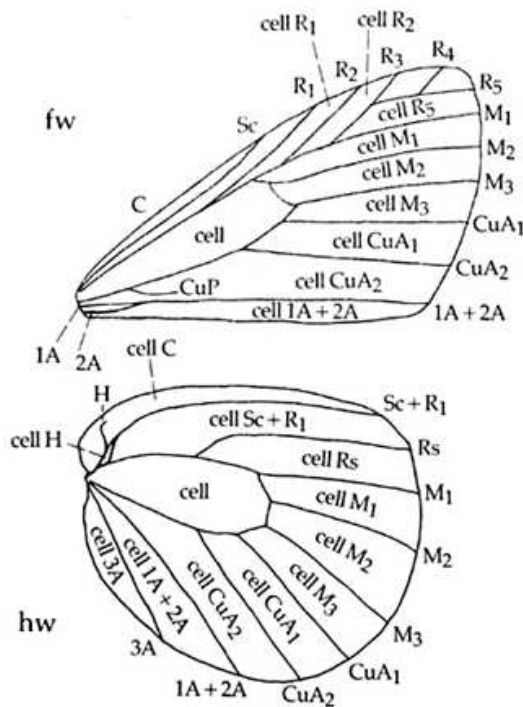


Image from: Scott, J.A. 1986. The butterflies of North America. A natural history and field guide. Stanford University Press, Stanford, California, pg. 146, fig. 83

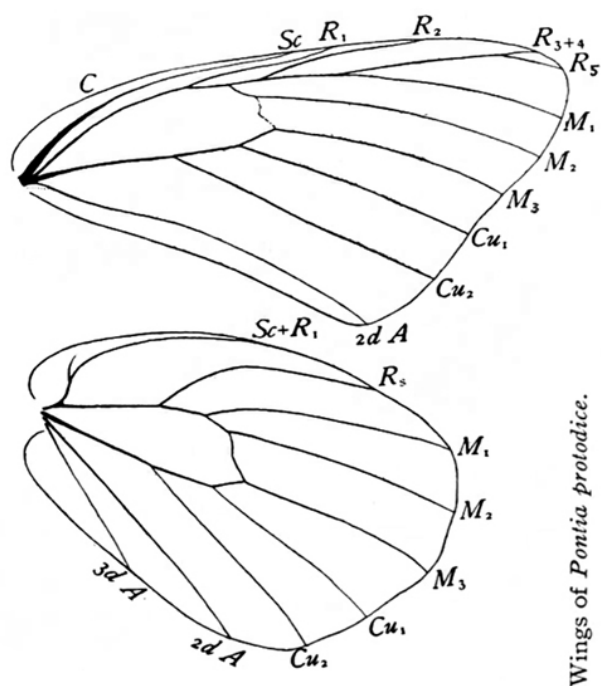


Image from: Comstock, J. V. 1939. The wings of insects. The Comstock Publishing Company, Ithaca, 400 pp. p. 353, f. 240.

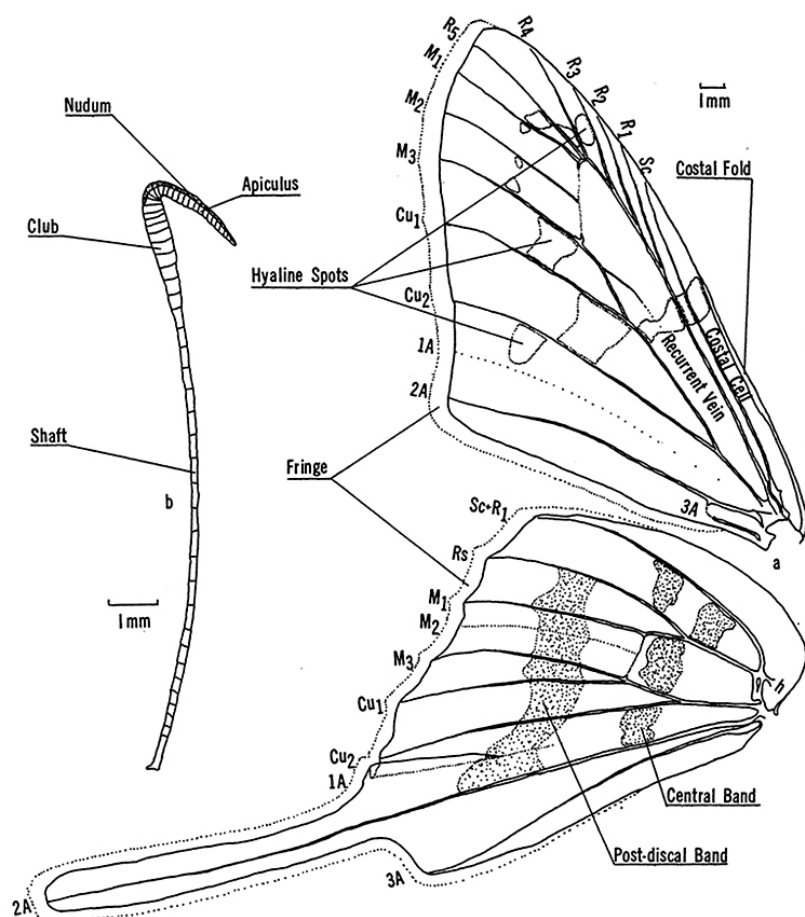
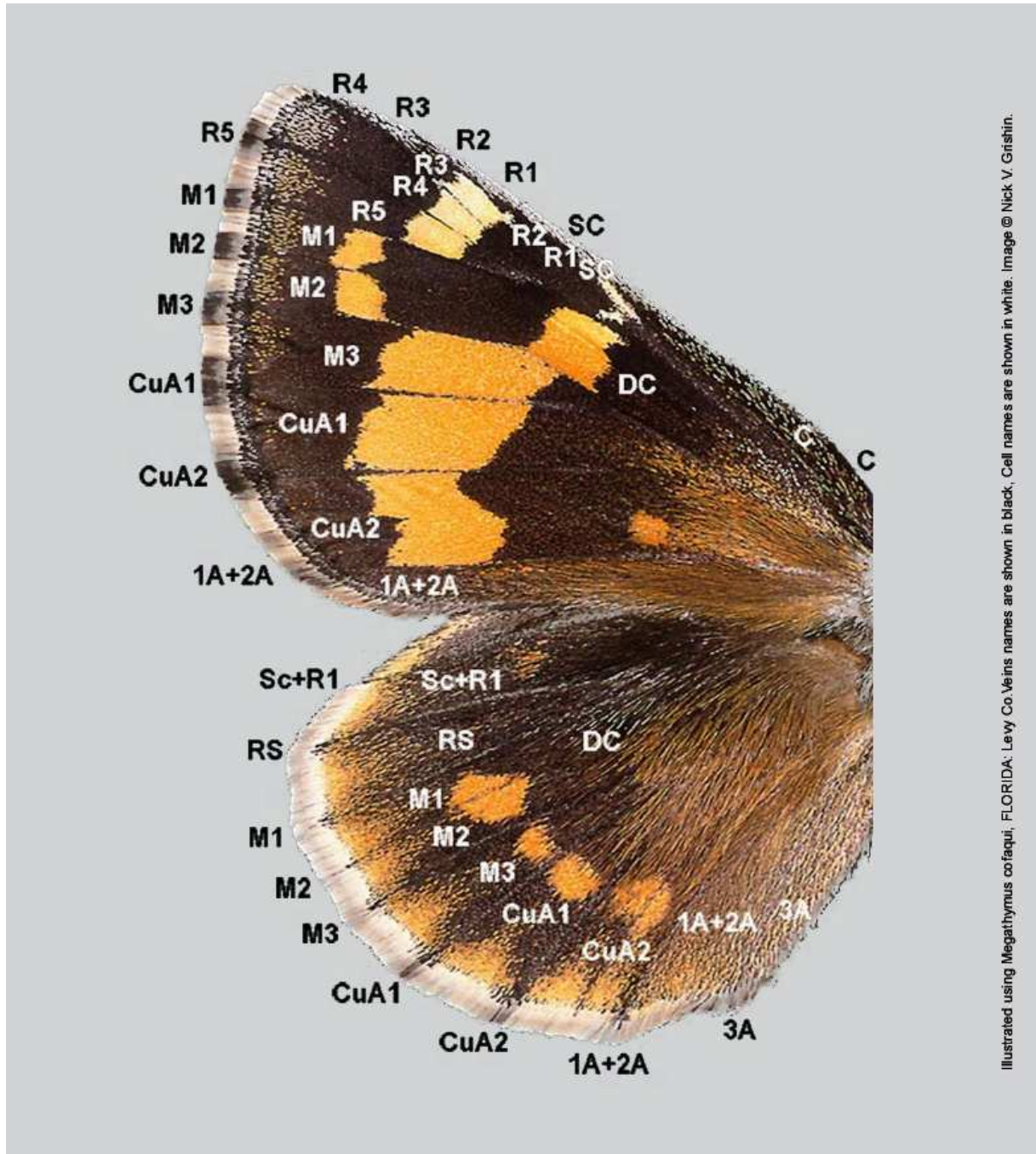


Image from: Starnes, Eugene 1959. A revision of the protodice group of the genus *Urbanus* (Lepidoptera: Nymphalidae). Bulletin of the American Museum of Natural History, 114, 27 figs. (1 September), 1-1.

Urbanus. a) Wing venation and maculation; b) Antenna; *U. p. proteus*, Ecuador: Imbabura: Rio Lita 600-650 m., Slide SRS-476.



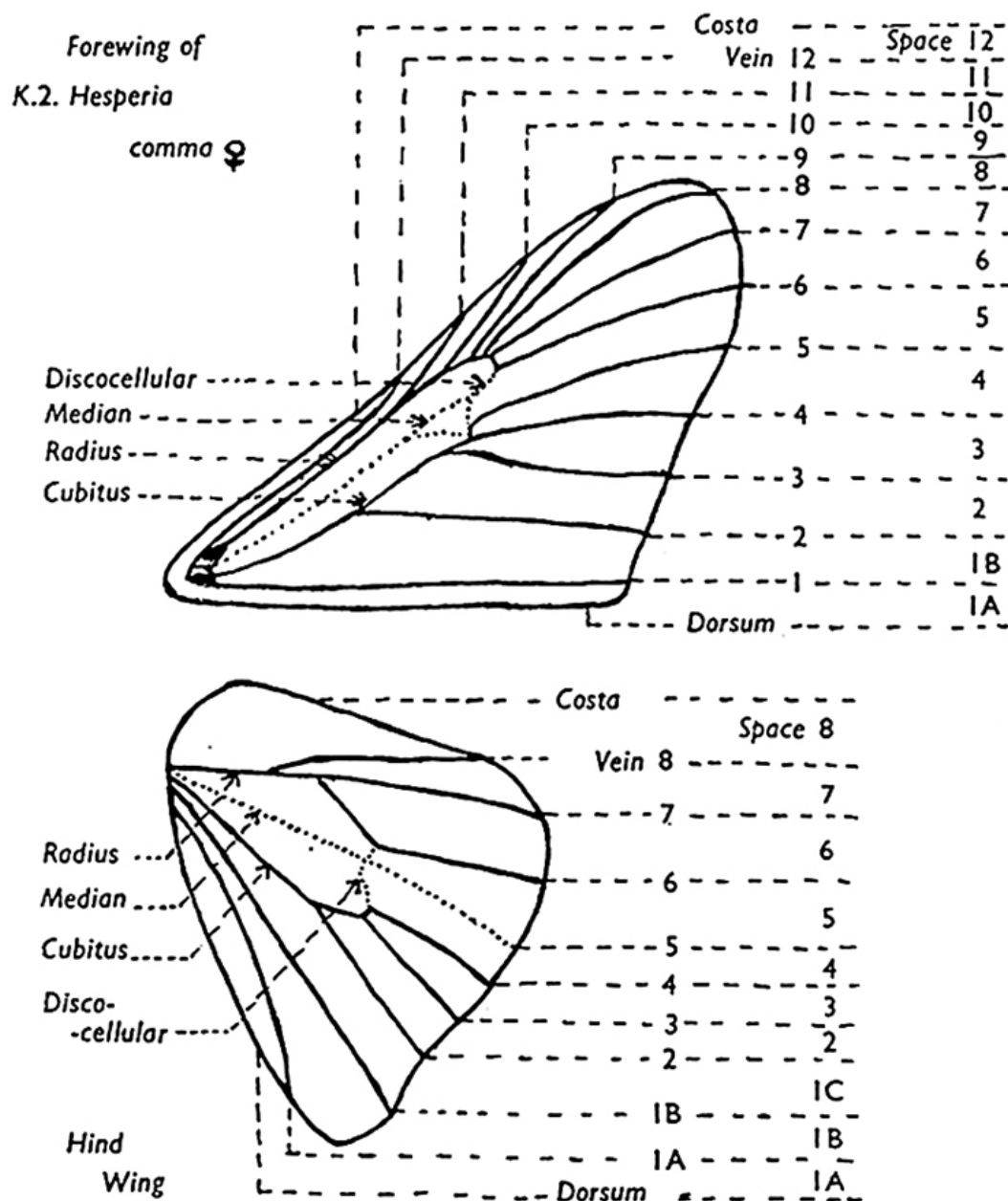
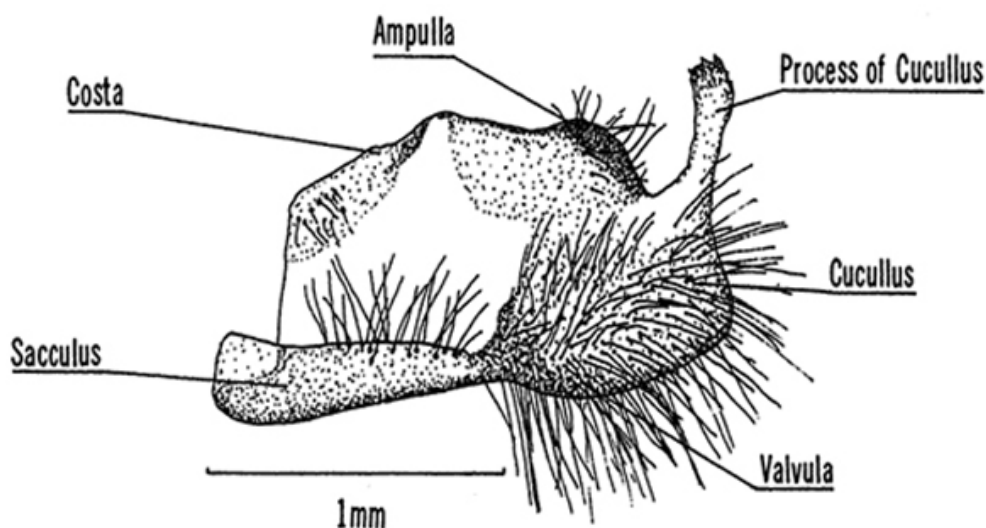
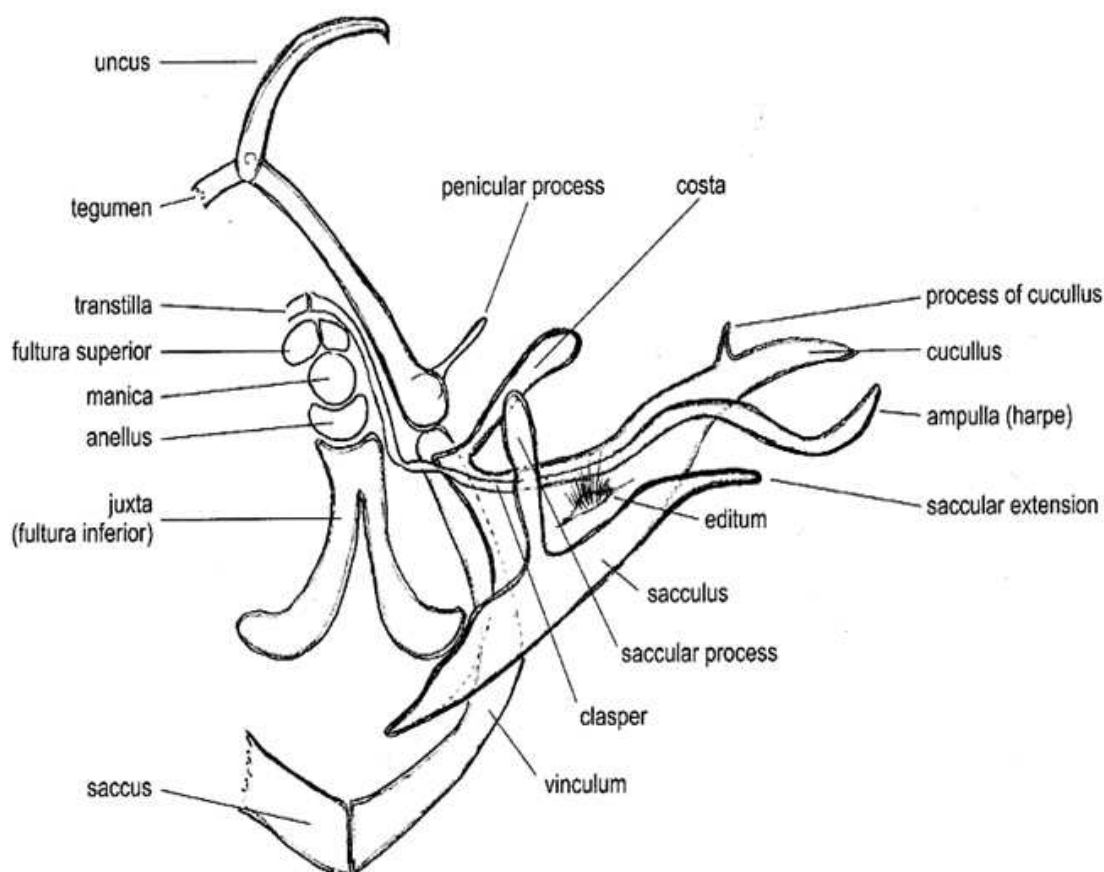
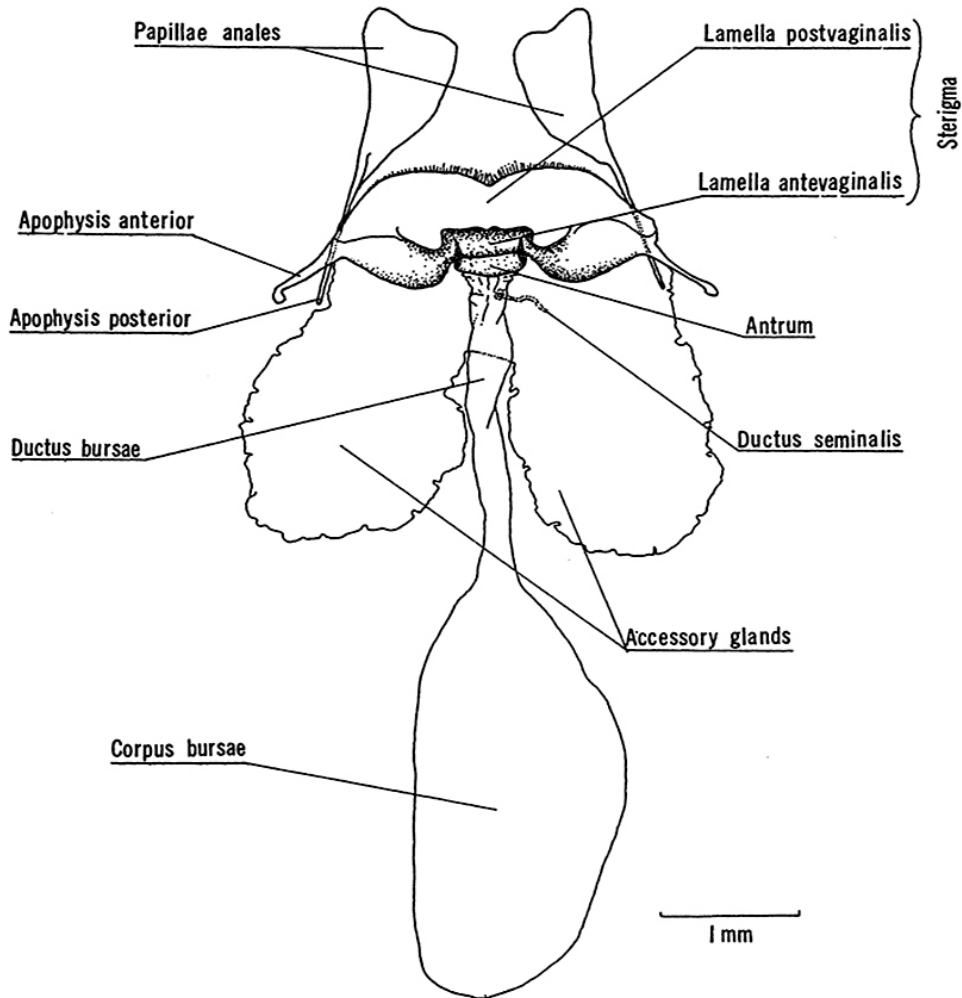


Image from: Evans, William Harry 1949. A catalogue of the Hesperidae from Europe Asia and Australia in the British Museum (Natural History) xix + 502 pp.



Urbanus. Valva of ♂ genitalia illustrating nomenclature used; *U. esmeraldus*, Colombia: Valle del Cauca: Cali, Cañas Gordas 1000 m., Genit. Prep. SRS-16.

Right valva, interior surface, view from the side. Image from: Staikhauser, Stephen Rogers 1981. A revision of the proteus group of the genus *Urbanus* Hübner. Lepidoptera: Hesperidae. Bulletin of the Alyn Museum 62: 1-41, 61 figs. (4 September). f. 2



Female genitalia of *Urbanus* and related skippers. View from below. Image from: Steinhäuser, Stephen Rogers 1981. A revision of the proteus group of the genus *Urbanus* Hübner. Lepidoptera: Hesperiidae. Bulletin of the Allyn Museum 62: 1-41, 61 figs. (4 September), f. 3

Urbanus. ♀ genitalia illustrating nomenclature used; *U. p. proteus*, Guatemala: Km. 170 C. A. Hwy. 9400', Genit. Prep. SRS-402.

CATALOGUE

Superfamily **HESPERIOIDEA** Latreille, 1809

Gen. Crust. Ins. 4: 187, 207 (as "Hesperides"). Type-genus: *Hesperia* Fabricius, 1793, Entomol. Syst. 3(1): 258, no. 187.

Family **HESPERIIDAE** Latreille, 1809

The family-group arrangement follows A. Warren *et al.* (2008), Cladistics 24(5) 642-676, and Warren *et al.* (2009), Syst. Entomol. 34(3): 467-523, based on molecular and morphological characters.

Subfamily **Eudaminae** Mabille, 1877

Petites Nouv. Entomol. 2(179): 162. Type-genus: *Eudamus* Swainson, 1831, Zool. Illustr. (2)2(11): pl. 48, unnumbered text.

Genus **Phocides** Hübner, [1819]

Verz. bekannt. Schmett. (7): 103. Type-species: *Phocides cruentus* Hübner, [1819], Verz. bekannt. Schmett. (7): 103, no. 1082 (= *Hesperia polybius* Fabricius (1793), Entomol. Syst. 3(1): 337, no. 281; synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 248, no. 857.

= *Erycides* Hübner, [1819]

Verz. bekannt. Schmett. (7): 110. Type-species: *Papilio pigmalion* Cramer, 1779, Uitl. Kapellen 3(21): 87, pl. 245, figs. A, B; (24): 176 (index), by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 67. First reviser choice of *Phocides* over *Erycides* was made by Godman & Salvin (1893), Biol. centr.-amer., Lepid. Rhop. 2(110): 292.

= *Dysenius* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 67. Type-species: *Erycides albicilla* Herrich-Schäffer, 1869, Corresp.-Bl. zool.-min. Ver. Regensburg 23(11): 169, no. 16 (= *Erycides lilea* Reakirt, [1867], Proc. Acad. Nat. Sci. Philad. 18(5): 339, no. 47; synonym: a subspecies of *Hesperia polybius* Fabricius, 1793, Entomol. Syst. 3(1): 337, no. 281), by original designation.

***1. Phocides pigmalion** (Cramer, 1779)

Uitl. Kapellen 3(21): 87, pl. 245, figs. A ♂ D, B ♂ V; (24): 176 (index).

Original

Combination: *Pap[ilio]. Pleb[ejus]. Urbico[la] Pigmalion.*

Type Locality: "Surinamen" "Suriname"

Types: Type(s) probably lost (van der Meulen collection).

= *tenuistriga* Mabille & Boulet, 1912

Ann. Sci. Nat., Zool. (9)16(2): 16, 21-22.

Original Combination: *P[hocides]. Tenuistriga* Stgr.

Type Locality: "Colombie...Perou...Brésil"; suggested to be "Colombia" by Evans (1952), Cat. Am. Hesp. Brit. Mus. (2): 13, from the "type" in BMNH.

Types: Syntypes in BMNH and MNHP.

= *iocularis* Röber, 1925

Entomol. Mitt. 14(2): 159-160.

Original Combination: *Phocides iocularis*

Type Locality: "Kolumbien"

Types: Lectotype in MTD, designated by Mielke (1989), Revta. bras. Zool. 6(1): 134.

= *disparilis* Röber, 1925

Entomol. Mitt. 14(2): 160.

- Original Combination:** *Phocides disparilis*
Type Locality: "Kolumbien"
Types: Holotype in MTD.
- a. **Phocides pigmalion okeechobee** (Worthington, 1881)
 Papilio 1(8): 133.
Original Combination: *Erycides Okeechobee*
Type Locality: "Marco Island, Florida" [Collier County]
Types: Syntype in USNM.
2. **Phocides belus** Godman & Salvin, 1893
 Biol. centr.-amer., Lepid. Rhop. 2(88): 293, no. 2; 3(111): pl. 76, figs. 17 ♂ D, 18 ♂ V.
Original Combination: *Phocides belus*
Type Locality: "Mexico, Ventana...Tampico...Paso de San Juan"
Types: Holotype in BMNH.
 Recorded from Texas by Hanson *et al.* (2003), News Lepid. Soc. 45(2): 41, 42-43, 8 figs., cover.
- *3. **Phocides polybius** (Fabricius, 1793)
 Entomol. Syst. 3(1): 337, no. 281; cited Jones' Icones 6: pl. 24, fig. 2, actually figured on pl. 71, D; also figured by Donovan (1800), Epit. Ins. India: pl. [51], fig. 2 (a copy from Jones' Icones).
Original Combination: *H[esperia]. U[rbicola]. Polybius*
Type Locality: "Indiis"
Types: Type(s) probably lost; based on specimens figured by Jones.
- = *‡palemon* (Cramer, 1777)
 Uitl. Kapellen 2(11): 54, pl. 131, fig. F ♀ D; (34): 150 (index).
Original Combination: *Pap[ilio]. Pleb[ejus]. Urbico[la]. Palem on*
Type Locality: "Surinamen" "Suriname"
Types: Syntype in RMNH.
 Preoccupied by *Papilio palaemon* Pallas, 1771, Reise verschied. Prov. Russisch. Reichs 1: 471 (Code Article 58.1).
- = *cruentus* Hübner, [1819]
 Verz. bekannt. Schmett. (7): 103, no. 1082; cited *Papilio palemon* Cramer, 1777, Uitl. Kapellen 2(11): pl. 131, fig. F.
Original Combination: *P[hocides]. Cruentus*
 Proposed as a replacement name for *Papilio palemon* Cramer, 1777, with the same data (Code Article 60.3).
- = *palaemonides* Röber, 1925
 Entomol. Mitt. 14(2): 159.
Original Combination: *Phocides palaemonides*
Type Locality: Not stated.
Types: Location of holotype not known.
 Mielke (1989), Revta. bras. Zool. 6(1): 144, determined this synonymy.
- = *‡"gunderi"* R. Williams & E. Bell, 1931
 Trans. Am. Entomol. Soc. 57(3): 251.
Original Combination: *Phocides palemon* ab. *gunderi*
Type Locality: "Rockstone, Essequibo River, British Guiana"

- Types:** "Holotype" (#7573) in CMNH.
- a. **Phocides polybius lilea** (Reakirt, [1867])
Proc. Acad. Nat. Sci. Philad. 18(5): 339, no. 47.
Original Combination: *Erycides lilea*
Type Locality: "Mexico, near Vera Cruz" [Veracruz]
Types: Syntype in CMNH.
- = *albicilla* (Herrich-Schäffer, 1869)
Corresp.-Bl. zool.-min. Ver. Regensburg 23(11): 169, no. 16.
Original Combination: [*Erycides*] *albicilla*
Type Locality: Not stated; syntype labeled "Mexiko."
Types: Syntype in ZMHB.
- = *socius* (Butler & H. Druce, 1872)
Cist. Entomol. 1(5): 112.
Original Combination: *E[rycides]. socius*
Type Locality: "Cartago, Costa Rica" implied from the title and introduction to the paper.
Types: Holotype in BMNH.
- = *†cruentus* (Scudder, 1872)
4th Ann. Rep. Peabody Acad. Sci. (1871): 67, no. 2.
Original Combination: *D[ysenius]. cruentus*
Type Locality: "Guatemala"
Types: Syntype (#15308) in MCZ.
Preoccupied by *Phocides cruentus* Hübner, [1819], Verz. bekannt. Schmett. (7): 103.
- = *sanguinea* (Scudder, 1872)
4th Ann. Rep. Peabody Acad. Sci. (1871): 68, no. 3.
Original Combination: *E[rycides]. sanguinea*
Type Locality: "Texas (Capt. Pope, Mexican Boundary Survey)"
Types: Lectotype (#7174) in CMNH, designated by Skinner and R. Williams (1922), Trans. Am. Entomol. Soc. 48(2): 112, no. 3.
- = *imbreus* Plötz, 1879
Stettiner Entomol. Ztg. 40(7-9): 406, no. 4; cited unpublished pl. 1198.
Original Combination: [*Erycides*] *Imbreus*
Type Locality: "Central-Amer"
Types: Holotype (#4942) in ZMHB.
- = *spurius* (Mabille, 1880)
Bull. Séances Soc. Entomol. Fr. 1880(6): 62; also described in Bull. Soc. Entomol. Fr. (5)10(2): xlvi.
Original Combination: *E[rycides]. spurius*
Type Locality: Not stated; lectotype from "Bogota." [Colombia]
Types: Lectotype in BMNH, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19 (supl. 1): 38.
- = *decolor* (Mabille, 1880)
Bull. Séances Soc. Entomol. Fr. 1880(6): 62; also described in Bull. Soc. Entomol. Fr. (5)10(2): xlvi.
Original Combination: *E[rycides]. decolor*
Type Locality: Not stated.
Types: Holotype in BMNH.
- = *albiciliata* Röber, 1925
Entomol. Mitt. 14(2): 159.
Original Combination: *Phocides albiciliata*

Type Locality: "Guatemala"

Types: Holotype in MTD, detailed by Mielke (1989),
Revta. bras. Zool. 6(1): 134.

Genus **Proteides** Hübner, [1819]

Verz. bekannt. Schmett. (7): 105. Type-species: *Papilio mercurius* Fabricius, 1787, Mantissa Ins. 2: 86, no. 780, by designation of Butler (1870), Entomol. Mon. Mag. 7(76): 93.

= *Dicranaspis* Mabilie, 1878

Annls. Soc. Entomol. Belg. 21: 24. Type-species: *Papilio idas* Cramer, 1779, Uitl. Kapellen 3(22): 118, pl. 260, figs. A, B; (24): 175 (index) (= *Papilio mercurius* Fabricius, 1787, Mant. Ins. 2: 86, no. 780; homonym), by monotypy.

4. **Proteides mercurius** (Fabricius, 1787)

a. **Proteides mercurius mercurius** (Fabricius, 1787)

Mantissa Ins. 2: 86, no. 780.

Original

Combination: *P[apilio]. P[lebejus]. U[rbicola]. Mercurius*

Type Locality: "Cajennae" [French Guiana]

Types: Syntype in ZMUC.

= *idas* (Cramer, 1779)

Uitl. Kapellen 3(22): 118, pl. 260, figs. A ♂ D, B
♂ V; (24): 175 (index).

Original

Combination: *Pap[ilio]. Pleb[ejus]. Urbicol[a]. Idas*

Type Locality: "Surinamen" "Suriname"

Types: Type(s) probably lost.

Preoccupied by *Papilio idas* Linnaeus, 1761,
Fauna Svecica, ed. 2: 284, as established by
I.C.Z.N. *Opinion* 269.

b. **Proteides mercurius sanantonio** (Lucas, 1857) (emended)

In: Sagra, Hist. Cuba 7(2): 626-627.

Original Combination: *Eudamus San-Antonio*

Type Locality: "dans l'île de Cuba" "Le nom de San-Antonio appelle celui du cap nord-est de l'île de Cuba"

Types: Location of type(s) not known.

Genus **Epargyreus** Hübner, [1819]

Verz. bekannt. Schmett. (7): 105. Type-species: *Papilio tityrus* Fabricius, 1775, Syst. Entomol.: 532, no. 382 (= *Papilio clarus* Cramer, 1775, Uitl. Kapellen 1(4): 66, pl. 41, figs. E, F; (8): 152 (index); homonym), by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 70.

= *Eridamus* Burmeister, 1875

Revue Mag. Zool. (3)3: 51-59. Type-species: *Goniurus tmolis* Burmeister, 1875, Rev. Mag. Zool. (3)3: 64, pl. 1, figs. 1 (larva), 8, 9 (portions of larva), by designation of Evans (1952), Cat. Am. Hesp. Brit. Mus. (2): 44.

5. **Epargyreus zestos** (Geyer, 1832)

a. **Epargyreus zestos zestos** (Geyer, 1832)

In: Hübner, Zutr. Samml. exot. Schmett. 4: pl [106], figs. 615 ♀ D, 616 ♀ V (1826); (text): 9, no. 308 (1832, name given).

Original Combination: *Proteides Zestos*

Type Locality: "Surinam", probably in error.

Types: Type(s) probably lost.

Hübner [1819], Verz. bekannt. Schmett. (7): 103, listed *Proteides zestos* without a description or indication; a *nomen nudum*.

= *oberon* (Worthington, 1881)
Papilio 1(8): 132-133.

Original Combination: *Endamus Oberon*

Type Locality: "Marco Island, Florida" [Collier County]

Types: Syntype in USNM.

= *arsaces* Mabille, 1903

In: Wytsman, Gen. Ins. (17a): 24.

Original Combination: *E[pargyreus]. arsaces*

Type Locality: "Ile Saint-Thomas" [United States Virgin Islands]

Types: Type(s) in BMNH.

6. **Epargyreus clarus** (Cramer, 1775)

a. **Epargyreus clarus clarus** (Cramer, 1775)

Uitl. Kapellen 1(4): 66, pl. 41, figs. E ♂ D, F ♂ V; (8): 152 (index).

Original Combination: *Pap[ilio]. Pleb[ejus]. Urbicola Clarus*

Type Locality: "Surinamen" "Suriname" in error; corrected to "Dayton (Rockingham Co.), Virginia" by Dixon (1955), Entomol. News 66(1): 7.

Types: Type(s) probably lost. L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 3, stated that a neotype was in CMNH, designated by Dixon (1955), Entomol. News 66(1): 7. I was unable to determine that there was any neotype designation by Dixon, only a series was mentioned.

= *†tityrus* (Fabricius, 1775)
Syst. Entomol.: 532, no. 382.

Original

Combination: *P[apilio]. P[lebejus]. U[rbicola] Tityrus*

Type Locality: "America"; defined as "Dayton (Rockingham Co.), Virginia" by Dixon (1955), Entomol. News 66(1): 7.

Types: Syntypes in ZMUC.

Preoccupied by *Papilio tityrus* Poda, 1761, Ins. Mus. graec.: 77.

= *argentosus* Hayward, 1933
Revta. Soc. Entomol. Argent. 5(23): 175, pl. 9, fig. 7 [actually pl. 10, fig. 4] ♂ genitalia, pl. 11, fig. 4 [actually pl. 14, fig. 7] ♂ V.

Original Combination: *Epargyreus argentosus*

Type Locality: "Tierra del Fuego" in error.

Types: Holotype in MACN.

= *argenteola* (Matsumura, 1940)
Insecta Matsumurana 15: 1-2, fig. 1 ♂ D, 2 ♂ V (holotype).

Original Combination: *Bibacis [sic!] argenteola*

Type Locality: "Formosa...Nôkô in the Prov. Taichu near Hori" in error; corrected to "Nearctic" by Evans (1949), Cat. Hesp. Europ. Asia Austr. Brit. Mus.: 477.

Types: Holotype in EIHU.

Shirôzu (1947), Zephyrus 9(4): 270-271, determined that *argenteola* is a synonym of *tityrus* (= *clarus*) and Hsu et al. (2006), Zool. Stud. 45(3): 324, figs. 1 ♂ D, 2 ♂ V, discuss and figure the holotype.

= ‡"obliteratus" Scudder, 1889
Butterflies E. U. S. & Can. 2(10): 1402.

Original Combination: *Epargyreus tityrus obliteratus*

Type Locality: "near Boston" [Massachusetts]

Types: "Holotype" may be in MCZ.

The text clearly indicates that this taxon was described as an individual variant.

= ‡"smythi" R. Williams, 1927
Trans. Am. Entomol. Soc. 53(3): 262; cited Smyth (1908), Entomol. News 19(5): pl. 10, upper figure ("holotype").

Original Combination: *Epargyreus tityrus* aberration *smythi*

Type Locality: "Charleston, South Carolina" [Charleston County]

Types: "Holotype" in USNM.

b. *Epargyreus clarus huachuca* Dixon, 1955

Entomol. News 66(1): 7-9.

Original Combination: *Epargyreus clarus huachuca*

Type Locality: "Huachuca Mts., Cochise Co., Arizona"

Types: Syntypes in CMNH.

c. *Epargyreus clarus profugus* Austin, 1998

Syst. W. N. Am. Butterflies (43): 523-524, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Epargyreus clarus profugus*

Type Locality: "Nevada: Clark County; Virgin Mountains, Cabin Canyon, 1676 m, T15S R71E S4 on USGS Virgin Peak, Nev.-Ariz. 15' quadrangle"

Types: Holotype in MGCL.

d. *Epargyreus clarus californicus* MacNeill, 1975

In: Howe, Butterflies N. Am.: 572.

Original Combination: *Epargyreus clarus californicus*

Type Locality: Not stated; lectotype from "China Flat, El Dorado Co., California."

Types: Lectotype in CAS, designated by Ferris (1989), Mem. Lepid. Soc. 3: 5.

"*Eudamus tityrus californica* Hy. Edwards" was proposed in synonymy by Skinner (1891), in: Smith et al., List Lepid. Bor. Am.: 17, no. 627a; a *nomen nudum*.

***7. *Epargyreus exadeus* (Cramer, 1779)**

Uitl. Kapellen 3(22): 118, pl. 260, fig. C ♂ V; (24): 174 (index).

Original

Combination: *Pap[ilio]. Ple[bejus]. Urbico[a] Exadeus*

Type Locality: "Surinamen" "Suriname"

Types: Type(s) probably lost (van der Meulen collection).

a. *Epargyreus exadeus cruza* Evans, 1952

Cat. Am. Hesp. Brit. Mus. (2): 50; cited figures in Skinner (1911), Trans. Am. Entomol. Soc. 37(3): pl. 10, and W. Holland (1931), Butterfly Book (rev. ed.): pl. 49, figs. 8 ♂ D, 9 ♀ V.

Original Combination: [*Epargyreus exadeus*] *cruza*

Type Locality: "Mexico, Cordova, Vera Cruz" [Veracruz]

Types: Holotype in BMNH.

Genus **Polygonus** Hübner, [1825]

Samml. exot. Schmett., 2: pl. [144]. Type-species: *Polygonus lividus* Hübner, [1825], Samml. exot. Schmett. 2: pl. [144], figs. 1-4 (= *Papilio leo* Gmelin, [1790], Syst. Nat. (ed. 13) 1(5): 2363, no. 836; synonym), by monotypy.

- = ‡*Acolastus* Scudder, 1872
4th Ann. Rept. Peabody Acad. Sci., (1871): 71. Type-species: *Hesperia savignyi* [sic!] Latreille, [1824], Enc. méth. 9(Ins.)(2): (716), 741-742, no. 35, by original designation. Preoccupied by *Acolastus* Gerstäcker, 1855, Mber. dt. Akad. Wiss. Berl. [1855]: 636.
- = ‡*Nennius* W. F. Kirby, [1902]
In: Wytzman, Facsimile ed. Hübner, Samml. exot. Schmett. 3 (addit. notes): 105. Type-species: *Polygonus lividus* Hübner, [1825], Samml. exot. Schmett. 2: pl. [144], figs. 1-4 (= *Papilio leo* Gmelin, 1790, Syst. Nat. (ed. 13) 1(5): 2363, no. 836; synonym), as replacement name. Proposed to replace *Polygonus*, erroneously thought to be preoccupied (Code Articles 60.3, 67.8); a junior objective synonym of *Polygonus*.

***8. Polygonus leo** (Gmelin, [1790])

Syst. Nat. (ed. 13) 1(5): 2363, no. 836; cited *Papilio amyntas* Fabricius, 1775, Syst. Entomol.: 533, no. 384.

Original Combination: [*Papilio Plebejus Urbanus*] *Leo*

Proposed as a replacement name for *Papilio amyntas* Fabricius, 1775, with the same data (Code Article 60.3).

- = ‡*amyntas* (Fabricius, 1775)
Syst. Entomol.: 533, no. 384.

Original

Combination: *P*[apilio]. *P*[lebejus]. *U*[rbicola] *Amyntas*

Type Locality: "America" The type locality of *Polygonus lividus* was suggested to be "Hispaniola" by W. Comstock (1944), Sci. Surv. Puerto Rico & Virgin Is. 12(4): 541, and the neotype of *lividus* is the lectotype of *amyntas*.

Types: Lectotype in ZMUC, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 39.

Preoccupied by *Papilio amyntas* Poda, 1761, Ins. Mus. graec.: 79.

- = *lividus* Hübner, [1825]
Samml. exot. Schmett. 2: pl. [144], 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Polygonus Lividus*

Type Locality: Not stated; suggested to be "Hispaniola" by W. Comstock (1944), Sci. Surv. Puerto Rico & Virgin Is. 12(4): 541.

Types: Type(s) probably lost. Neotype in ZMUC, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 39. The neotype is the same specimen as the lectotype of *amyntas*.

Hübner [1819], Verz. bekannt. Schmett. (7): 103, listed *Astrartes lividus* without a description or indication; a *nomen nudum*.

- = *ishmael* Evans, 1952

Cat. Am. Hesp. Brit. Mus. (2): 54.

Original Combination: [*Polygonus leo*] *ishmael*

Type Locality: "Haiti"

Types: Holotype in BMNH.

a. ***Polygonus leo arizonensis*** (Skinner, 1911)

Trans. Am. Entomol. Soc. 37(3): 209, pl. 10 D&V; ♂ genitalia figured by Skinner and R. Williams (1923), Trans. Am. Entomol. Soc. 48(4): fig. 5.

Original Combination: *Erycides amyntas arizonensis* n. var.

Type Locality: "Florence, Arizona" [Pima County]

Types: Syntype (#7073) in CMNH.

b. ***Polygonus leo histrio*** Röber, 1925

Entomol. Mitt. 14(2): 161.

Original Combination: *Polygonus (Acolastus) histrio*

Type Locality: "Panama" probably in error.

Types: Holotype in MTD, detailed by Mielke (1989), Revta. bras. Zool. 6(1): 134.

Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 39, determined that the holotype of this taxon represents the phenotype found in Florida and Cuba.

9. ***Polygonus savigny*** (Latreille, [1824])

a. ***Polygonus savigny savigny*** (Latreille, [1824])

Enc. méth., 9(Ins.)(2): (716), 741-742, no. 35.

Original Combination: *Hesperia Savigny*

Type Locality: "Antilles"

Types: Lectotype in MNHP, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 40.

The lectotype is conspecific with *Polygonus manueli*, as determined by Mielke and Casagrande (2002), *ibid.*, so the name *savigny* must be given priority; frequently misspelled *savignyi*, but this an incorrect subsequent spelling.

= *manueli* E. Bell & W. Comstock, 1948

Am. Mus. Novit. (1379): 4-6, fig. 1 ♂ genitalia.

Original Combination: *Polygonus manueli*

Type Locality: "New Bremen, Brasil" [Santa Catharina]

Types: Holotype in AMNH.

One paratype, possibly mislabeled, from "Royal Palm Hammock, [Miami-Dade County] Florida" was figured by Klots (1951), Field Guide Butterflies N.

Am.: pl. 26, fig. 4 ♂ D.

‡"mimeticus" J. Zikán & W. Zikán, 1968

Pesq. agropec. bras. 3: 62.

Original Combination: *Polygonus mimeticus*

Proposed without a description; a *nomen nudum*.

Genus ***Chioides*** Lindsey, 1921

Bull. Labs. Nat. Hist. St. Univ. Iowa 9(4): 25-26. Type-species: *Eudamus albofasciatus* Hewitson, 1867, Descr. one hundred new spec. Hesp. (1): 3-4, no. 2, by original designation.

10. ***Chioides albofasciatus*** (Hewitson, 1867)

Descr. one hundred new spec. Hesp. (1): 3-4, no. 2; figured by Hewitson (1875), Ill. exot. Butterflies 5(96): pl. Eudamus II, fig. 15 ♂ V.

Original Combination: *Eudamus albofasciatus*

Type Locality: "Guatemala (Polochic Valley)"

Types: Holotype in BMNH.

Austin and A. Warren (2002), *Dugesiana* 9(2): 17-18, recently corroborated the species-level status of this taxon.

11. **Chioides zilpa** (Butler, 1872)

Lepid. Exot. (8): 109, pl. 40, fig. 2 ♂ V.

Original Combination: *G[oniurus]. Zilpa*

Type Locality: "Cartago, Costa Rica"

Types: Holotype in BMNH.

= *namba* Evans, 1952

Cat. Am. Hesp. Brit. Mus. (2): 58; cited W. Holland (1931), *Butterfly Book* (rev. ed.): pl. 49, fig. 18 ♂ V.

Original Combination: [*Chioides zilpa*] *namba*

Type Locality: "Magdalena, N. Sonora, Mexico"

Types: Holotype in BMNH.

Austin and A. Warren (2002), *Dugesiana* 9(2): 18, determined this synonymy.

Genus **Typhedanus** Butler, 1870

Trans. Entomol. Soc. Lond. (4)1870(4): 497. Type-species: *Typhedanus zephus* Butler, 1870, Trans. Entomol. Soc. Lond. (4)1870(4): 497, by monotypy (not *Cobalus umber* Herrich-Schäffer, 1869, *Corresp.-Bl. zool.-min. Ver. Regensburg* 23(12): 203, *sensu* Hemming (1967), *Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl.* 9: 452).

12. **Typhedanus undulatus** (Hewitson, 1867)

Descr. one hundred new spec. *Hesp.* (1): 4, no. 4; figured by Hewitson (1873), *Ill. exot. Butterflies* 5(96): pl. *Eudamus* II, fig. 16 ♂ V.

Original Combination: *Eudamus undulatus*

Type Locality: Not stated.

Types: Holotype in BMNH.

= *sumichrasti* (Scudder, 1872)

4th Ann. Rep. Peabody Acad. Sci. (1871): 69, no. 5.

Original Combination: *T[hymele]. Sumichrasti*

Type Locality: "Tehuantepec" [Oaxaca, Mexico]

Types: Syntype (#15309) in MCZ.

= *elongatus* (Plötz, 1881)

Bull. Soc. Imp. Nat. Moscou, 55(3): 4, no. 8; cited unpublished pl. 8.

Original Combination: *Goniurus Elongatus*

Type Locality: "Brasilien"

Types: Type(s) may be in ZSMC, ZMHB, or lost.

Godman (1907), *Ann. Mag. Nat. Hist.* (7)20(116): 133, suggested this synonymy through an examination of the unpublished drawing made by Plötz.

= *nicasius* (Plötz, 1881)

Bull. Soc. Imp. Nat. Moscou 55(3): 4, no. 9; cited unpublished pl. 1.

Original Combination: *Goniurus Nicasius*

Type Locality: "Brasil"

Types: Type(s) may be in ZSMC, ZMHB, or lost.

Godman (1907), *Ann. Mag. Nat. Hist.* (7)20(116): 133, suggested this synonymy through an examination of the unpublished drawing made by Plötz.

Genus **Polythrix** E. Watson, 1893

Proc. Zool. Soc. Lond. 1893(1): 16, 19. Type-species: *Eudamus metallescens* Mabille, 1888, Naturaliste (2)2(28): 108-109, fig. 2, by original designation.

13. **Polythrix mexicanus** H. Freeman, 1969
J. Lepid. Soc. 23(suppl. 2): 10, pl. 5, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Polythrix mexicanus*
Type Locality: "Seven miles south of Valles (grounds of Hotel Covadonga), San Luis Potosi, Mexico"
Types: Holotype in AMNH, as noted by H. Freeman (1989), J. Lepid. Soc. 43(3): 244.
Species-genus gender conformation is *mexicana*.
14. **Polythrix octomaculata** (Sepp, [1844])
Surinaam. Vlinders 2(13): 123 [22 Aug 1844]; (15): pl. 58, larva, pupa, ♂ D, ♂ V [27 Aug 1844].
Original Combination: *Hesperia Octomaculata*
Type Locality: "Surinam" from the title of the work.
Types: Type(s) are lost.
H. Freeman (1967), J. Lepid. Soc. 21(4): 278, and (1979), J. Lepid. Soc. 33(2): 125, detailed the occurrence of this taxon in Texas.
 - = *decussata* (Ménétriés, 1855)
Enum. corp. anim. (1): 97, 123, no. 1013, pl. 5, fig. 2 ♂ D&V.
Original Combination: *Goniuris* [sic!] *Decussata*
Type Locality: "d'Haiti"
Types: Lectotype in ZIN, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 40.
 - = *decurtata* (Herrich-Schäffer, 1869)
Corresp-BI. zool.-min. Ver. Regensburg 23(11): 170, no. 13.
Original Combination: [*Eudamus*] *decurtata*
Type Locality: Not stated; "Brazil" on label of syntype.
Types: Syntype in ZMHB.
 - = *calenus* (Mabille, 1888)
Naturaliste (2)10(27): 99, fig. 3 ♂ D&V.
Original Combination: *Eudamus calenus*
Type Locality: "Guatemala"
Types: Type(s) may be in ZMHB or MNHP (Staudinger collection).
 - = *alciphron* (Godman & Salvin, 1893)
Biol. centr.-amer., Lepid. Rhop. 2(109): 285, no. 24; 3(110): pl. 75, figs. 24 ♂ D, 25 ♂ V.
Original Combination: *Eudamus alciphron*
Type Locality: "Mexico, Rincon in Guerrero...Coatepec in Vera Cruz"; holotype from "Rincon."
Types: Syntype in BMNH.
Steinhauser (1975), Bull. Allyn Mus. (29): 5, considered this a ♀ form and synonym of *octomaculata*; H. Freeman (1979), J. Lepid. Soc. 33(2): 125, and Austin and A. Warren (2002), Dugesiana 9(2): 19, concurred.
 - = *elegans* (Hayward, 1933)
Revta. Soc. Entomol. Argent. 5(23): 165, pl. 7 [actually pl. 10] fig. 6 ♂ genitalia, pl. 11 [actually pl. 12], fig. 6 ♂ D&V.
Original Combination: *Goniurus elegans*
Type Locality: "Misiones" [Prov. Misiones, Argentina]
Types: Holotype in MLPA (Breyer collection).

Genus **Aguna** R. Williams, 1927

Trans. Am. Entomol. Soc. 53(3): 286. Type-species: *Eudamus camagura* R. Williams, 1926, Trans. Am. Entomol. Soc. 52(2): 81-82, by original designation.

- = ‡ *Tmetocerus* Poujade, 1896
Bull. Soc. Entomol. Fr. 1895(4)(26): cxliv. Type-species: *Eudamus asander* Hewitson, 1867, Descr. one hundred new spec. Hesp. (1): 9, no. 13, by monotypy.
Preoccupied by *Tmetocerus* Hartert, 1891, Kat. Vögelsamml. Mus. Senckenberg: 141.

asander group Austin & Mielke, 1998
Revta. bras. Zool. 14(4): 896.

15. **Aguna asander** (Hewitson, 1867)

a. **Aguna asander asander** (Hewitson, 1867)

Descr. one hundred new spec. Hesp. (1): 9, no. 13, figured by Hewitson (1875), Ill. exot. Butterflies 5(96): pl. Eudamus III, fig. 24 ♂ V.

Original Combination: *Eudamas asander*

Type Locality: "Amazon (Ega)" [Tefé, Brazil]

Types: Lectotype in BMNH, designated by Austin and Mielke (1998), Revta. bras. Zool. 14(4): 896.

- = *panthius* (Herrich-Schäffer, 1869)
Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 186, no. 6.

Original Combination: [*Eudamus*] *panthius*

Type Locality: Not stated.

Types: Lectotype in ZMHB, designated by Austin and Mielke (1998), Revta. bras. Zool. 14(4): 896. Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 134, determined this synonymy based on an examination of the unpublished drawing (pl. 109) made by Plötz. Bailowitz and Brock (1991), Butterflies S.E. Ariz.: 22, also stated that this is a "form" of *asander*.

- = *scheba* (Plötz, 1881)
Stettiner Entomol. Ztg. 43(1-3): 94, no. 56; cited unpublished pl. 117.

Original Combination: [*Eudamus*] *Scheba*

Type Locality: "Süd-Amerika"

Types: Lectotype in ZMHB, designated by Austin and Mielke (1998), Revta. bras. Zool. 14(4): 896. Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 134, suggested this synonymy based on his examination of the unpublished drawing made by Plötz.

- = *euthymides* (Mabille & Boulet, 1912)
Annls. Sci. Nat., Zool. (9)16(2): 65, 69.
Original Combination: [*Epargyreus* *Asander*]
Var. *Euthymides* Plötz

Type Locality: Not stated; referred to Plötz' unpublished plate 107.

Types: Type(s) probably based on Plötz' unpublished figures only.

Mabille (1903), in: Wytsman, Gen. Ins. 17a: 24, introduced this name (as *Epargyreus euthymides*) without a description or indication; a *nomen nudum*.

metophis group Austin & Mielke, 1998

Revta. bras. Zool. 14(4): 906.

16. **Aguna metophis** (Latreille, [1824])
 Ency. méth. 9(Ins.)(2): (713), 729, no. 2; figured by Boisduval (1836), Spec. gén. Lépid. 1: pl. 13, fig. 5 ♂ D.
Original Combination: *Hesperia Metophis*
Type Locality: "Bresil"
Types: Lectotype in BMNH, designated by Austin and Mielke (1998), Revta. bras. Zool. 14(4): 906.



claxon group Austin & Mielke, 1998
 Revta. bras. Zool. 14(4): 910.

17. **Aguna claxon** Evans, 1952
 Cat. Am. Hesp. Brit. Mus. (2): 60.
Original Combination: [*Aguna*] *claxon*
Type Locality: "Mexico, Atoyac, Vera Cruz" [Veracruz]
Types: Holotype in BMNH.

Genus **Zestusa** Lindsey, 1925

Ann. Entomol. Soc. Am. 18(1): 106. Type-species: *Plestia staudingeri* Mabille, 1888, Naturaliste (2)2(31): 146, fig. 1, as replacement name. Proposed to replace *Plestia* Mabille, 1888, preoccupied (Code Articles 60.3, 67.8).

- = ‡*Plestia* Mabille, 1888
 Naturaliste (2)2(31): 146. Type-species: *Plestia staudingeri* Mabille, 1888, Naturaliste (2)2(31): 146, fig. 1, by monotypy. Preoccupied by *Plestia* Stål [1871], Ofvers. K. VetenskAkad. Förh. 27(7): 768 (nota).

18. **Zestusa dorus** (W. H. Edwards, 1882)
 Papilio 2(8): 140-141.
Original Combination: *Eudamus Dorus*
Type Locality: "Fort Grant and in Graham Mountains, Arizona" implied from the title of the paper; defined as "Mount Graham, Graham County, Arizona, between 5,000 and 8,000 feet above sea level" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 600.
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 602, fig. 1 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 45, fig. 11 ♂ D&V.

Genus **Codatractus** Lindsey, 1921

Bull. Labs. Nat. Hist. St. Univ. Iowa 9(4): 26. Type-species: *Heteropia imitatrix* Mabille, 1889, Naturaliste (2)3(49): 68, fig. 3 (= *Telegonus imalena* Butler, 1872, Lepid. Exot.: 109, pl. 40, fig. 1; synonym), as replacement name. Proposed to replace *Heteropia* Mabille, 1889, preoccupied (Code Articles 60.3, 67.8).

- = ‡*Heteropia* Mabille, 1889
 Naturaliste (2)3(49): 68. Type-species: *Heteropia imitatrix* Mabille, 1889, Naturaliste (2)3(49): 68 (= *Telegonus imalena* Butler, 1872, Lepid. Exot.: 109, pl. 40, fig. 1; synonym), by designation of E. Watson (1893), Proc. Zool. Soc. Lond. 1893(1): 22. Preoccupied by *Heteropia* Carter, 1886, Ann. Mag. Nat. Hist. (5)18: 47.

19. **Codatractus alcaeus** (Hewitson, 1867)
 a. **Codatractus alcaeus alcaeus** (Hewitson, 1867)
 Descr. one hundred new spec. Hesp. (1): 3, no. 1; figured by Hewitson (1875), Ill. exot. Butterflies 5(96): pl. Eudamus II, fig. 9 ♂ V.
Original Combination: *Eudamus alcaeus*

Type Locality: "Nicaragua"

Types: Holotype in BMNH.

= *montezuma* (Scudder, 1872)

4th Ann. Rep. Peabody Acad. Sci. (1871): 70, no. 10.

Original Combination: *T[hymele]*. *Montezuma*

Type Locality: "Tehuantepec" [Oaxaca, Mexico]

Types: Syntype (#15317) in MCZ.

20. **Codatractus arizonensis** (Skinner, 1905)

Entomol. News 16(7): 232; figured by Skinner (1911), Trans. Am. Entomol. Soc. 37(3): pl. 10.

Original Combination: [*Heteropia melon*] [var.] *arizonensis*

Type Locality: "Baboquivaria [sic!] Mts., Pima County, Arizona"

Types: Syntype (#7074) in CMNH; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 49, fig. 15 ♂ D.

21. **Codatractus valeriana** (Plötz, 1881)

Stettiner Entomol. Ztg. 43(1-3): 99, no. 76; cited unpublished pl. 130.

Original Combination: [*Eudamus*] *Valeriana*

Type Locality: "Mexico"

Types: Lectotype in ZMHB, designated by Mielke and A. Warren (2004), Revta. bras. Zool. 21(2): 308, figs. 1 ♂ D, 2 ♂ V, where the status of this taxon was resolved.

= *mysie* (Dyar, 1904)

J. N. Y. Entomol. Soc. 12(1): 40.

Original Combination: *Thorybes mysie*

Type Locality: "Patagonia Mountains, Arizona" [Santa Cruz County]

Types: Lectotype (#7737) in USNM, designated by Burns (1996), J. Lepid. Soc. 50(3): 210, figs. 52, 59, 66 ♂ genitalia, 79 ♂ D, 80 ♂ V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 75, figs. 8 ♂ D, 8a ♂ V.

Genus **Urbanus** Hübner, [1807]

Samml. exot. Schmett. 1: pls. [150], [151], [155], [159]. Type-species: *Papilio proteus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 163 (as figured by Hübner [1807], Samml. exot. Schmett. 1: pl. [155]), by designation of Hemming (1933), Entomol. 66(844): 200. Steinhauser (1981), Bull. Allyn Mus. (62): 1-43, revised the *proteus* group, and (1987), Bull. Allyn Mus. (111): 1-16, detailed species-group names in this genus.

= ‡*Thymele* [Illiger], 1807

Allg. Lit.-Zeit. 2(303): 1180. Type-species: *Papilio proteus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 163, designated by Bridges (1985), Notes on Family- and Genus-group names (IV): 123. Suppressed by I.C.Z.N. *Opinion* 232, and placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 48; it is also a junior objective synonym of *Urbanus* Hübner, [1807].

= ‡*Goniurus* Hübner, [1819]

Verz. bekannt. Schmett. (7): 104. Type-species: *Papilio proteus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 163, by designation of Westwood (1852), in: Gen. diurn. Lepid. 2(54): 510. A junior objective synonym of *Urbanus* Hübner, [1807].

= ‡*Eudamus* Swainson, 1831



Zool. Illustr. (2)2(11): pl. 48, unnumbered text. Type-species: *Papilio proteus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 163, by original designation. A junior objective synonym of *Urbanus* Hübner, [1807].

‡"Lyroptera" Plötz, 1881

Stettiner Entomol. Ztg. 42(10-12): 500. This name was introduced by Plötz (citing Hopffer) in the synonymy of *Eudamus* Swainson, 1831. Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 271, stated that the type-species is *Papilio proteus* Linnaeus, 1758, by monotypy; L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 7, duplicated this citation. This is incorrect because "Lyroptera" Plötz is a *nomen nudum* and not available.

22. *Urbanus proteus* (Linnaeus, 1758)

a. *Urbanus proteus proteus* (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 484, no. 163; cited Merian (1719), Ins. Surinam: pl. 63, fig. 2; figured by Clerck [1764], Icon. Ins. 2: pl. 42 ♂ D&V.

Original Combination: *P[apilio]. P[lebejus urbicola]*. *Proteus*

Type Locality: "Americas"; "neotype" from "Cherry point, Craven Co., N[orth] C[arolina]", as designated by Steinhauser (1981), Bull. Allyn Mus. (62): 13, but see below.

Types: Lectotype in UZIU, designated by Aurivillius (1882), K. svenska. VetenskAkad. Handl. (4)19(5): 119-120. A subsequent "lectotype", in MWNH, was designated by Mielke (1989), Rev. bras. Zool. 6(3):450-451, figs. 3 ♂ D, 4 ♂ V, and a "neotype", in MGCL, was designated by Steinhauser (1981), Bull. Allyn Mus. no. 62: 13 figs. 4 ♂ D, 5 ♂ V.

The lectotype designated by Aurivillius may not be this species. If not, it may be necessary to ask the I.C.Z.N. to establish a neotype that conforms with the consistent use of this name; see Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 373-374.

= *proteoides* (Plötz, 1881)

Bull. Soc. Imp. Nat. Moscou 55(3): 11; cited unpublished pl. 33.

Original Combination: *Goniurus Proteoides*

Type Locality: "Nd. America"

Types: Holotype in ZMHB.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 133, identified this synonymy through examination of the unpublished drawing made by Plötz.

‡"fortis" Skinner & Ramsden, 1924

Proc. Acad. Nat. Sci. Philad. 75: 309.

Original Combination: *Urbanus fortis*

This name was listed in the synonymy of *proteus* without a description or indication; a *nomen nudum*.

23. *Urbanus belli* (Hayward, 1935)

An. Soc. Cient. Argent. 119(6): 256; figured by Hayward (1948), Gen. Spec. Anim. Argent. 1: pl. 15, fig. 12 V.

Original Combination: *Goniurus belli*

Type Locality: "Salta" [Argentina]

Types: Holotype in MLPA (Breyer collection).



- Recorded from Texas by A. Warren (1997), News Lepid. Soc. 39(3): 41, figs. F-J.
 = *alva* Evans, 1952
 Cat. Am. Hesp. Brit. Mus. (2): 87.
Original Combination: [*Urbanus viterboana*] *alva*
Type Locality: "Mexico, Atoyac, Veracruz"
Types: Holotype in BMNH; figured by Steinhauser (1981), Bull. Allyn Mus. (62): fig. 14 ♂ V.
24. **Urbanus pronus** Evans, 1952
 Cat. Am. Hesp. Brit. Mus. (2): 89.
Original Combination: [*Urbanus*] *pronus*
Type Locality: "Ambato, Ecuador"
Types: Holotype in BMNH; figured by Steinhauser (1981), Bull. Allyn Mus. (62): fig. 17 ♂ V.
 = *plinius* E. Bell, 1956
 Am. Mus. Novit. (1778): 1-5; figs. 3 ♂ D, 4 ♂ V, 17 ♂ genitalia (holotype?).
Original Combination: *Urbanus plinius*
Type Locality: "Santa Cruz, Bolivia"
Types: Holotype in AMNH.
25. **Urbanus esmeraldus** (Butler, 1877)
 Trans. Entomol. Soc. Lond. (4)1877(2): 146-147, no. 233.
Original Combination: *Goniurus esmeraldus*
Type Locality: "Villa bella"; interpreted to be "Villa Nova, Amazons" by Evans (1952), Cat. Am. Hesp. Brit. Mus. (2): 89. [Brazil]
Types: Holotype in BMNH; figured by Steinhauser (1981), Bull. Allyn Mus. (62): fig. 19 ♂ V.
26. **Urbanus dorantes** (Stoll, 1790)
 a. **Urbanus dorantes dorantes** (Stoll, 1790)
 Aanhangs. Werk Uitl. Kapellen Pieter Cramer (3): 172; (3): pl. 39, fig. 9 ♂ V; 383 (index).
Original Combination: *Pap[ilio]. Pleb[ejus] Urbic[ola]. Dorantes*
Type Locality: "Surinamen" "Suriname"
Types: Type(s) probably lost (Breukelerwaerth collection).
 = *torones* (Hübner, 1821)
 Index exot. Lepid.: [6].
Original Combination: *Goniurus Torones*
Type Locality: Not stated.
Types: Type(s) probably lost.
 Proposed for the figures in Hübner [1807], Samml. exot. Schmett. 1: pl. [155], figs 1 ♂ D, 3 ♂ V (as *Urbanus proteus*).
 = *atletes* (C. Felder & R. Felder, 1862)
 Wien entomol. Monatschr. 6(6): 183, no. 169.
Original Combination: *Eudamus Atletes*
Type Locality: "Brasilia et Nova Granada"; suggested to be "Brazil" by Evans (1952), Cat. Am. Hesp. Brit. Mus. (2): 92.
Types: Holotype in BMNH.
 = *amisus* (Hewitson, 1867)
 Descr. one hundred new spec. Hesp. (1): 5, no. 5; figured by Hewitson (1875), Ill. exot. Butterflies 5(96): pl. Eudamus II, fig. 10 ♂ V.
Original Combination: *Eudamus Amisus*

Type Locality: Not stated; suggested to be "Nicaragua" by Evans (1952), Cat. Am. Hesp. Brit. Mus. (2): 92.

Types: Holotype in BMNH.

- = *protillus* (Herrich-Schäffer, 1869)
Corresp-BI. zool.-min. Ver. Regensburg 23(11): 171, no. 19.

Original Combination: [*Eudamus*] *protillus*

Type Locality: Not stated; suggested as "Tropical America" by R. Williams (1926), Trans. Am. Entomol. Soc. 52(2): 62.

Types: Holotype in ZMHB.

- = *corydon* (Butler, 1870)
Trans. Entomol. Soc. Lond. (4)1870(4): 492-493, no. 4; figured by Butler (1871), Lepid. Exot. (3): 65, pl. 25, fig. 2 ♂ V (holotype?).

Original Combination: *Goniurus Corydon*

Type Locality: "Cuba"; corrected to "Central Valleys of Guatemala" by Butler (1871), Lepid. Exot. (3): 65.

Types: Holotype in BMNH.

- = *retractus* (Plötz, 1881)
Bull. Soc. Imp. Nat. Moscou 55(3): 9, no. 24; cited unpublished pl. 24.

Original Combination: *Goniurus Retractus*

Type Locality: "Laguayra" [Venezuela]

Types: Holotype may be in ZIN or ZSMC.

- = *kefersteinii* (Plötz, 1881)
Bull. Soc. Imp. Nat. Moscou 55(3): 11, no. 32; cited unpublished pl. 32.

Original Combination: *Goniurus Kefersteinii*

Type Locality: "Caracas" [Venezuela]

Types: Holotype may be in ZIN.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 133, determined this synonymy through examination of the unpublished drawing made by Plötz.

- = ‡"rauterbergi" (Skinner, 1895)
Entomol. News 6(4): 113.

Original Combination: *Eudamus*

protillus var. *rauterbergi* n. var. ♂

Type Locality: "Comal County, Texas"; holotype labeled "New Braunfels, Comal Co., Tex."

Types: "Holotype" (#7062) in CMNH; figured by R. Williams (1926), Trans. Am. Entomol. Soc. 52(2): pl. 2, fig. 1; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 49, fig. 12 ♂ V.

The text clearly indicates that this taxon was described as an individual variant.

27. **Urbanus teleus** (Hübner, 1821)

Index exot. Lepid.: [3].

Original Combination: *Goniurus Teleus*

Type Locality: Not stated.

Types: Type(s) probably lost.

Proposed for the figures in Hübner [1808], Samml. exot. Schmett. 1: pl. [154], figs. 2 ♀ D, 4 ♀ V (as *Urbanus dorantes*).

- = *eurycles* (Latreille, [1824])



Ency. méth. 9(Ins.)(2): (714), 730, no. 5; cited *Papilio proteus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 163, *Papilio dorantes* Stoll, 1790, Aanhangs. Werk Uitl. Kapellen Pieter Cramer (3): 172; (3): pl. 39, fig. 9; 383 (index), and *P. simplicius* Stoll, 1790, Aanhangs. Werk Uitl. Kapellen Pieter Cramer (3): 171, pl. 39, figs. 6, 6e; 384 (index).

Original Combination: *Hesperia Eurycles*

Type Locality: "Bresil"

Types: Holotype in MNHP.

= *zalanthus* (Plötz, 1881)

Bull. Soc. Imp. Nat. Moscou 55(3): 3, no. 6; cited unpublished pl. 5.

Original Combination: *Goniurus Zalanthus*

Type Locality: "Allagra" [Porto Alegre, Rio Grande do Sul, Brazil]

Types: Holotype (#5070) in ZMHB.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 133, determined this synonymy through an examination of the unpublished drawing made by Plötz.

= *latipennis* (Mabille & Vuillot, 1891)

Novit. Lepid. (5): 36, pl. 5, fig. 1 ♂ D&V.

Original Combination: *Goniurus latipennis*

Type Locality: "Cayenne" [French Guiana]

Types: Holotype may be in MNHP.

28. **Urbanus tanna** Evans, 1952

Cat. Am. Hesp. Brit. Mus. (2): 94.

Original Combination: [*Urbanus*] *tanna*

Type Locality: "Santa Rita, Colombia, Cauca River"

Types: Holotype in BMNH.

29. **Urbanus simplicius** (Stoll, 1790)

Aanhangs. Werk Uitl. Kapellen Pieter Cramer (3): 171, pl. 39, figs. 6 ♂ D, 6e ♂ V; 384 (index).

Original

Combination: *Pap[ilio]. Pleb[ejus]. Urbic[ola]. Simplicius*

Type Locality: "Surinamen" "Suriname"

Types: Type(s) probably lost.

= *gracillcauda* (Plötz, 1881)

Bull. Soc. Imp. Nat. Moscou 55(3): 2, no. 1.

Original Combination: *Goniurus Gracillcauda*

Type Locality: "Central America"

Types: Holotype may be in ZIN or ZSMC.

= *pilatus* (Plötz, 1881)

Bull. Soc. Imp. Nat. Moscou 55(3): 2, no. 3; cited unpublished pl. 2.

Original Combination: *Goniurus Pilatus*

Type Locality: "Bahia, Surinam"

Types: Syntypes (#5068, 5069) in ZMHB.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 133, determined this synonymy through an examination of the unpublished drawing made by Plötz.

= *thiemei* (Ehrmann, 1907)

Can. Entomol. 39(9): 321-322.

Original Combination: *Thymele Thiemei*

Type Locality: "San Pedro Sula, Honduras, Central America"

Types: Holotype in CMNH.

= *borja* (Ehrmann, 1907)



- Can. Entomol. 39(9): 322.
Original Combination: *Thymele Borja*
Type Locality: "Barja [sic!], Bolivia, South America"
Types: Holotype in CMNH.
30. **Urbanus procne** (Plötz, 1881)
 Bull. Soc. Imp. Nat. Moscou 55(3): 3, no. 4; cited unpublished pl. 3.
Original Combination: *Goniurus Procne*
Type Locality: "Brasilien"
Types: Holotype may be in ZIN or ZSMC.
31. **Urbanus doryssus** (Swainson, 1831)
 a. **Urbanus doryssus doryssus** (Swainson, 1831)
 Zool. Illustr. (2)2(11): pl. 48, fig. 2 ♂ D, unnumbered text.
Original Combination: *Eudamus Doryssus*
Type Locality: "vicinity of Bahia" [Brazil]
Types: Location of type(s) not known.
 Drury (1782), Ill. Nat. Hist. 3: 22, index, pl. 17, figs. 3 ♂ D, 4 ♂ V, figured this species as *Papilio orion*, citing Cramer (1777), Uitl. Kapellen 2(13): 92, pl. 155, figs. A, B. This was a misidentification of Cramer's species, not a proposal of a new name. Until revisionary work by Steinhauser is published, the synonymy of this species follows Mielke (2005), Cat. Amer. Hesp. 2: 383-385.
 = *brachius* (Geyer, 1832)
 In: Hübner, Zutr. Samml. exot. Schmett. 4: pl. [105], figs. 609 ♂ D, 610 ♂ V [1826]; (text): 8, no. 305 (1832, name given).
Original Combination: *Goniurus Brachius*
Type Locality: "Brasil"
Types: Type probably lost.
 This name was mentioned (as *Goniurus brachyus*) by Hübner [1819], Verz. bekannt. Schmett. (7): 104, without a description or indication; a *nomen nudum*.
 = *leucites* (Mabille, 1888)
 Naturaliste (2)10(27): 98-99, fig. 2 ♂ D&V.
Original Combination: *Eudamus Leucites*
Type Locality: "Colombie"
Types: Holotype in ZMHB (Staudinger collection).
 = *cleopatra* (Ehrmann, 1907)
 Can. Entomol. 39(9): 323.
Original Combination: *Goniurus Cleopatra*
Type Locality: "Suapure, Venezuela"
Types: Holotype in CMNH.
 = *†*"interruptus" (R. Williams, 1926)
 Trans. Am. Entomol. Soc. 52(2): 65; figured by R. Williams (1927), Trans. Am. Entomol. Soc. 53(3): pl. 25, fig. 3.
Original Combination: [*Eudamus doryssus*] form *interruptus*
Type Locality: "San Pedro Sula, Honduras"
Types: "Holotype" (#7120) in CMNH.
 Consistent with Williams' use of "race" and "form," this is an infrasubspecific name.

Genus *Astraptes* Hübner, [1819]

Verz. bekannt. Schmett. (7): 103. Type-species: *Papilio aulestes* Cramer, 1780, Uitl. Kapellen 3(24): 161, pl. 283, figs. E, F, G (= *Papilio aulestis* Cramer, 1780, Uitl. Kapellen 3(24): 173 (index); incorrect original spelling), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 122, no.



137. Hemming (1934), Gen. Names Holarct. Butterflies 1: 158, made a first reviser choice of *Astraptus* Hübner, [1826] over *Telegonus* Hübner, [1826]. dos Passos (1959), Lepid. News 12(5-6): 195-198, employed the index spelling of *aulestis*, thereby avoiding homonymy, but this is subject to a review of Cramer names given a binomial combination in the index. Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 63, incorrectly determined that *Papilio narcosius* Stoll, 1790, Aanhangs. Werk Utitl. Kapellen Pieter Cramer (3): 171, pl. 39, fig. 8; 384 (index), was the oldest available name for *Papilio aulestes* Cramer, 1780, based on this perceived homonymy. Steinhauser (1987), Bull. Allyn Mus. (111): 1-16, detailed species-group names in this genus.

- = *Telegonus* Hübner, [1819]
Verz. bekannt. Schmett. (7): 104. Type-species: *Papilio talus* Cramer, 1777, Utitl. Kapellen 2(15): 122-123, pl. 176, fig. D; (16): 151 (index), by designation of Butler (1870), Entomol. Mon. Mag. 7(75): 56.
- = *Euthymele* Mabille, 1878
Annls. Soc. Entomol. Belg. 21: 24. Type-species: *Hesperia mercatus* Fabricius, 1793, Entomol. Syst. 3(1): 332, no. 260 (= *Papilio fuligator* Walch, 1775, Naturforscher 7: 115, pl. 1, figs. 2a, 2b; synonym), by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 86.
‡"Creteus" Westwood, 1852
In: Gen. diurn. Lepid. (2)(54): 511. This name was introduced by Westwood in the synonymy of *Goniloba*, which he described as new. Since this name was unintentional (Westwood meant to use *Carystus*), it is a *nomen nudum*; see Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 129.

***32. *Astraptus fuligator* (Walch, 1775)**

Naturforscher 7: 115, pl. 1, figs. 2a ♂ D, 2b ♂ V.

Original Combination: *Papilio Fuligator*

Type Locality: Not stated.

Types: Type(s) probably lost.

Hebert *et al.* (2004), Proc. Nat. Acad. Sci. USA 101(41): 14812-14817, determined that there may be multiple species-level taxa represented by this name. It is therefore impossible to arrange an accurate synonymy at this time; the synonymy below follows Mielke (2005), Cat. Amer. Hesp. (2): 169-173.

- = *mercatus* (Fabricius, 1793)
Entomol. Syst. 3(1): 332, no. 260; cited Jones' Icones 6: pl. 87, fig. D.

Original Combination: *H[esperia]. U[rbicola]. Mercatus*

Type Locality: "Indiis"

Types: Type(s) probably lost.

- = *fulminator* (Sepp, [1841])
Surinaam. Vlinders. 1(9): 75, pl. 34, D, V, larva, pupa.

Original Combination: *Papilio Fulminator*

Type Locality: "Surinam" implied from the title of the work.

Types: Type(s) are lost.

- = ‡"discalis" (Bryk, 1953)
Ark. Zool. (ns)5: 136, no. 312.

Original Combination: *Thymele fuligator* fa. *discalis*

Type Locality: "Roque...Bananenplantage, Ricinus-Blatt, SO Moyob" [Peru]

Types: "Holotype" in NHRS.

Bryk described subspecies in this paper, so this name is clearly infrasubspecific.



- a. **Astraptes fulgurator azul** (Reakirt, [1867])
 Proc. Acad. Nat. Sci. Philad. 18(5): 340, no. 48.
Original Combination: *Goniloba azul*
Type Locality: "Mexico, near Vera Cruz" [Veracruz]
Types: Syntype(s) may be in ANSP or CMNH.
 The synonymy below is subject to review in light of possible cryptic species; see Hebert *et al.* (2004), Proc. Nat. Acad. Sci. USA 101(41): 14812-14817, and A. V. Brower (2006), Syst. Biodivers. 4(2):127-132.
- = *misitra* (Plötz, 1881)
 Stettiner Entomol. Ztg. 42(10-12): 502, no. 8; cited unpublished pl. 61.
Original Combination: [*Eudamus*] *Misitra*
Type Locality: "Mexiko"
Types: Syntypes (#4983-4984) in ZMHB.
- = *albifasciatus* (Röber, 1925)
 Entomol. Mitt. 14(1): 96.
Original Combination: *Thymele albifasciatus*
Type Locality: "Bolivia (Rio Songo, 750 m...)" [La Paz]
Types: Lectotype in MTD, designated by Mielke (1989), Revta. bras. Zool. 6(1): 135.
- = *catemacoensis* H. Freeman, 1967
 J. Lepid. Soc. 21(2): 117-118, pl. 1, 2nd row, ♂ D&V (holotype), 3rd row ♀ D&V, ♂ genitalia.
Original Combination: *Astraptes catemacoensis*
Type Locality: "Mexico, Catemaco, Vera Cruz"
Types: Holotype in AMNH.
 H. Freeman (1982), J. Lepid. Soc. 36(3): 236-237, synonymized this taxon (which he described) under *A. f. azul*.
33. **Astraptes egregius** (Butler, 1870)
 a. **Astraptes egregius egregius** (Butler, 1870)
 Trans. Entomol. Soc. Lond. (4)1870(4): 494, no. 1; figured by Butler (1871), Lepid. Exot. (3): 65, pl. 25, fig. 11 ♂ D.
Original Combination: *Telegonus egregius*; *Hesperia egregia* Herrich-Schäffer, *in litt.*
Type Locality: Not stated.
Types: Holotype in BMNH.
- *34. **Astraptes alardus** (Stoll, 1790)
 Aanhangs. Werk Uittl. Kapellen Pieter Cramer (3): 171, pl. 39, fig. 7 ♂ D, 7f ♂ V; 382 (index).
Original Combination: *Pap[ilio]. Pleb[ejus]. Urbic[ola] Alardus*
Type Locality: "Surinamen" "Suriname"
Types: Type(s) probably lost.
- = *fabrici* (Ehrmann, 1918)
 Lepidoptera 2(4): 29.
Original Combination: *Telegonus fabrici*
Type Locality: "Cauca Valley, Venezuela"
Types: Holotype in CMNH.
- a. **Astraptes alardus latia** Evans, 1952
 Cat. Am. Hesp. Brit. Mus. (2): 111.
Original Combination: [*Astraptes alardus*] *latia*
Type Locality: "Costa Rica"
Types: Holotype in BMNH.
- *35. **Astraptes alector** (C. Felder & R. Felder, 1867)

Reise Novara Zool. (3): 508, no. 883, pl. 71, figs. 2 ♂ D, 3 ♂ V.

Original Combination: *Eudamus Alector*

Type Locality: "Nova Granada: Bogotá" [Colombia]

Types: Holotype in BMNH.

a. *Astraptus alector hopfferi* (Plötz, 1881)

Stettiner Entomol. Ztg. 43(1-3): 90, no. 35; cited unpublished pl. 88.

Original Combination: [*Eudamus*] *Hopfferi Alector* ? var

Type Locality: "Süd-Amerika"

Types: Type may be in ZSMC.

= *uridon* (Dyar, 1912)

Proc. U. S. Nat. Mus. 42(1885): 43.

Original Combination: *Thracides uridon*

Type Locality: "Guerrero, Mexico"

Types: Holotype (#14221) in USNM.

= *gilberti* H. Freeman, 1969

J. Lepid. Soc. 23(suppl. 2): 8-9, pl. 3, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, pl. 4, fig. 1 ♂ genitalia.

Original Combination: *Astraptus gilberti*

Type Locality: "Seven miles south of Valles, (Grounds of Hotel Covadonga) San Luis Potosi, Mexico"

Types: Holotype in AMNH.

A. Warren (2000), in: Llorente *et al.*, Biodiver. Taxon. Biogeogr. Artrópod. Méx. 2: 549, proposed this synonymy.

***36. *Astraptus anaphus* (Cramer, 1777)**

Uitl. Kapellen 2(15): 126, pl. 178, fig. F ♂ D; (16): 147 (index).

Original

Combination: *Pap[ilio]. Pleb[ejus]. Urbico[la]. Anaphus*

Type Locality: "Surinamen" "Suriname"

Types: Holotype in RMNH, discussed by de Jong (1983), Tijdschr. Entomol. 126(11): 240.

= *leucogramma* (Sepp, [1830])

Surinaam. Vlinder. 1(4): 37, pl. 15, D, V, larva, pupa.

Original Combination: *Papilio Leucogramma*

Type Locality: "Surinam" implied from the title of the work.

Types: Type(s) are lost.

= *anaphides* (Mabille & Boulet, 1912)

Annls. Sci. Nat., Zool. (9)16(2): 75, 88.

Original Combination: [*Telegonus*

Anaphus] *Anaphides* nov. var.

Type Locality: "Brésil"; "Bahia" on label of the type.

Types: Holotype in MNHP.

Steinhauser (1987), Bull. Allyn Mus. (111): 7, considered this an unavailable name. Under current rules the use of "form" or "variety" before 1961 may be interpreted as indicating a species-group name (Code Article 45.6.4), which I believe is consistent with Mabille and Boulet's intent.

a. *Astraptus anaphus annetta* Evans, 1952

Cat. Am. Hesp. Brit. Mus. (2): 118.

Original Combination: [*Astraptus anaphus*] *annetta*

Type Locality: "Tres Rios, 5,000 ft.: Costa Rica"

Types: Holotype in BMNH.



Genus **Autochton** Hübner, 1823

Zutr. Samml. exot. Schmett. 2: 13. Type-species: *Autochton itylus* Hübner, 1823, Zutr. Samml. exot. Schmett. 2: 13, pl. [44], figs. 249, 250, by monotypy.

- = ‡*Cecrops* Hübner, 1818
Zutr. Samml. exot. Schmett. 1: 30. Type-species: *Cecrops zarex* Hübner, [1818], Zutr. Samml. exot. Schmett. 1: 30, no. 92, pl. [32], figs. 183, 184, by monotypy. Preoccupied by *Cecrops* Leach, 1816, Ency. Brit. Suppl. to 4th -6th eds. 1(2): 405.
- = *Cecropterus* Herrich-Schäffer, 1869
Corresp.-Bl. zool.-min. Ver. Regensburg 23(9): 131. Type-species: *Cecrops zarex* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: 30, no. 92, pl. [32], figs. 183, 184, as a replacement name. Proposed to replace *Cecrops* Hübner, [1818], preoccupied (Code Articles 60.3, 67.8).
- = *Rhabdoides* Scudder, 1889
Butterflies E. U. S. & Can. 3(12): 1854. Type-species: *Eudamus cellus* Boisduval & Le Conte, [1837], Hist. Lépid. Amér. sept. (25): pl. 73, 4 figs., by monotypy.

37. **Autochton cellus** (Boisduval & Le Conte, [1837])
Hist. Lépid. Amér. sept. (25): pl. 73, figs. [1] ♂ D, [2] ♂ V, [4] larva, [5] pupa.

Original Combination: *Eudamus Cellus*

Type Locality: Not stated (there is no text), but "Georgia" implied from the notes for the original drawing by John Abbot. A. Clark (1936), Smithsonian Misc. Coll. 95(7): 14, suggested that the model for Abbot's figure came from the vicinity Jacksonborough, Screven County, Georgia, but Abbot spent most of his time in Burke County.

Types: The plate was a reproduction of an Abbot drawing. The types are the specimens that he painted and are probably lost. A "holotype" in BMNH was mentioned by Evans (1952), Cat. Am. Hesp. Brit. Mus. (2): 121, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such Boisduval "types."

Burns (1984), Smithsonian Contrib. Zool. (405): 1-38, reviewed this species.

- = *festus* (Geyer, 1837)
In: Hübner, Zutr. Samml. exot. Schmett. 5: pl. [156], figs. 907 ♀ D, 908 ♀ V [1836]; (text): 27, no. 454 (1837, name given).

Original Combination: *Cecrops Festus*

Type Locality: Not stated

Types: Type(s) probably lost, but may be in ZMHB, ZSMS or NMW.

- = *mexicana* (Draudt, 1922)
In: Seitz, Grossschmett. Erde 5(309): 871; (313): pl. 169a ♂ & ♀ D.

Original Combination: [*Rhabdoides cellus*] form *mexicana*

Type Locality: "Mexiko...Orizaba" [Veracruz]

Types: Location of type(s) not known, possibly in SMF. Steinhauser (1975), Bull. Allyn Mus. (29): 9, considered this to be a subspecies-level taxon.

- = ‡"*aereofuscus*" (Gunder, 1925)
Entomol. News 36(7): 196, no. 6, pl. 5, fig. 6 ♂ D.



Original Combination: *Rhabdoides cellus* ab.

♂ *aereofuscus*

Type Locality: "Baboquivari Mountains, Pima County, Arizona"

Types: "Holotype" in AMNH.

= ‡"leilae" (A. Clark, 1934)

Science 80(2068): 164; figured by A. Clark (1936), Smithsonian Misc. Coll. 95(7): pl. 2, figs. 1 ♀ D, 2 ♀ V ("holotype").

Original Combination: [*Rhabdoides cellus*]

var. *leilae*

Type Locality: "vicinity of Washington" [District of Columbia]; further defined as "Maryland, woods just north of the unpaved portion of the Conduit Road 1.1 miles southeast of Great Falls, or just over one-half mile west of the point where the paved road from Washington turns north up the hill, leaving the conduit" by A. Clark (1936), Smithsonian Misc. Coll. 95(7): 12.

Types: "Holotype" in USNM.

The text clearly indicates that this taxon was described as an individual variant.

38. **Autochton pseudocellus** (Coolidge & Clemence, [1910]) †

Entomol. News 22(1): 3.

Original Combination: *Achalarus pseudocellus*

Type Locality: "Ramsey Canon, Huachuca Mountains, Cochise County, Arizona. 5,000-7,000 feet altitude"

Types: Syntypes in LACM.

This taxon has apparently been extirpated from the United States, as noted by Bailowitz and Brock (1991), Butterflies SE Ariz.: 32.

39. **Autochton cincta** (Plötz, 1882)

Berl. Entomol. Z. 26(2): 261, no. 9; cited unpublished pl. 232.

Original Combination: [*Cecropterus*] *Cincta*

Type Locality: "Oaxaca" [Mexico]

Types: Location of type(s) not known.

Species-genus gender conformation is *cinctus*.

= *rotundatus* (Mabille, 1883)

Annls. Soc. Entomol. Belg. 27(c.r.)(31): liii.

Original Combination: *Telegonus rotundatus*

Type Locality: "America meridionali"

Types: Syntypes in BMNH.

Genus *Achalarus* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 71. Type-species: *Papilio lycidas* J. E. Smith, 1797, in: Smith & Abbot, Ins. Georgia 1: 39, pl. 20, 4 figs. (= *Proteides lyciades* Geyer, 1832, in: Hübner, Zutr. Samml. exot. Schmett. 4: pl. [108], figs. 621, 622; 10, no. 311; preoccupied), by original designation.

= *Murgaria* E. Watson, 1893

Proc. Zool. Soc. Lond. 1893(1): 19, 37. Type-species: *Telegonus albociliatus* Mabille, 1877, Petites Nouv. Entomol. 2(179): 162, no. 12, by original designation.

40. **Achalarus lyciades** (Geyer, 1832)

In: Hübner, Zutr. Samml. exot. Schmett. 4: pl. [108], figs. 621 ♀ D, 622 ♀ V [1826]; (text): 10-11, no. 311 (1832, name given); cited *Papilio lycidas* J. E. Smith, 1797, in: Smith & Abbot, Ins. Georgia 1: 39-40, pl. 20.

Original Combination: *Proteides Lyciades*

Proposed as a replacement name for *Papilio lycidas* J. E. Smith, 1797, with the same data (Code Article 60.3). This name was mentioned (as *Proteides lyciades*) by Hübner [1819], Verz. bekannt. Schmett. (7): 105, without a description or indication; a *nomen nudum*.

= ‡*lycidas* J. E. Smith, 1797

In: Smith & Abbot, Ins. Georgia 1: 39-40, pl. 20, figs.

♂ D, ♂ V, larva, pupa.

Original Combination: *Papilio Lycidas*

Type Locality: "Georgia" implied from the notes for the original drawing by John Abbot.

Types: Described, at least in part, from a John Abbot drawing; the specimens upon which this drawing was based are presumed lost.

Preoccupied by *Papilio lycidas* Cramer, 1777, Uitl. Kapellen 2(10): 25, pl. 113, fig. A; (16): 149 (index).

‡"*hedysarum*" Scudder, 1889

Butterflies E. U. S. & Can. 2(10): 1418.

Original Combination: *Papilio hedysarum* Abb.

This name was mentioned in the synonymy of *Achalarus lyciades* without a description or indication; a *nomen nudum*.

41. **Achalarus casica** (Herrich-Schäffer, 1869)

Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 187, no. 17.

Original Combination: [*Eudamus*] *casica*

Type Locality: Not stated.

Types: Type(s) may be in ZMHB.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 135, determined this synonym through an examination of the unpublished drawing made by Plötz.

= *epigena* (Butler, 1870)

Trans. Entomol. Soc. Lond. (4)1870(4): 493; figured by Butler (1871), Lepid. Exot. (3): 65, pl. 25, fig. 6 ♂ V.

Original Combination: *Eudamus Epigena*; *Myscelus Epigena*, Herrich-Schäffer, in litt.

Type Locality: "Mexico"

Types: Holotype in BMNH.

‡"*orestes*" W. H. Edwards, 1877

Trans. Am. Entomol. Soc. 6(1): 58.

Original Combination: [*Eudamus*] *Orestes*

Lintner intended to describe "*Eudamus orestes*" in 1867, but never did. Edwards listed it as a Lintner manuscript name. In this and all other listings the name "*orestes*" is a *nomen nudum*; see F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 602-603.

42. **Achalarus tehuacana** (Draudt, 1922)

In: Seitz, Grossschmett. Erde 5(309): 871; (313): pl. 169b ♂ V.

Original Combination: R[*habdoides*] *tehuacana*

Type Locality: "Tehuacan, Puebla" [Tehuacán, Puebla, Mexico]

Types: Location of type(s) not known, possibly in SMF.

Recorded from Texas by Hardy *et al.* (2010), News Lepid. Soc. 52(4): 107-111, 127, 18 figs.

43. **Achalarus albociliatus** (Mabille, 1877)

a. **Achalarus albociliatus albociliatus** (Mabille, 1877)



Petites Nouv. Entomol. 2(179): 162, no. 12.

Original Combination: *Teleg[onus].? albociliatus*

Type Locality: "Colombia, Panama, Guatemala"; suggested to be "Colombia" by Evans (1952), Cat. Am. Hesp. Brit. Mus. (2): 127.

Types: Syntypes in IRSN.

44. **Achalarus toxeus** (Plötz, 1882)

Berl. Entomol. Z. 26(2): 258, no. 6; cited unpublished pl. 212.

Original Combination: [*Aethilla*] *Toxeus*

Type Locality: "Mexico"

Types: Holotype (#5054) in ZMHB.

= *coyote* (Skinner, 1892)

Can. Entomol. 24(7): 164.

Original Combination: *Eudamus coyote*

Type Locality: "Southern Texas"; lectotype from "nr. Corpus Christi, Nueces County, Texas."

Types: Syntype(s) (#7075) in CMNH; one figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 75, figs. 7 ♂ D, 7a ♂ V.

= *nigrociliata* (Mabille & Boulet, 1912)

Annls. Sci. Nat., Zool. (9)16(2): 158, 159.

Original Combination: [*Murgaria Albociliata*]

Var. *Nigrociliata*

Type Locality: "Mexique"

Types: Holotype in MNHP.

Genus **Thessia** Steinhauser, 1989

Bull. Allyn Mus. (127): 11-12. Type-species: *Eudamus athesis* Hewitson, 1867, Descr. one hundred new spec. Hesp. (1): 8, no. 11, by original designation.

45. **Thessia jalapus** (Plötz, 1881)

Stettiner Entomol. Ztg. 43(1-3): 100, no. 81; cited unpublished pl. 134.

Original Combination: [*Eudamus*] *Jalapus*

Type Locality: "Jalappe" [Jalapa, Veracruz, Mexico]

Types: Holotype (#4960) in ZMHB.

= *xerxes* (E. Bell, 1934)

Bull. Brooklyn Entomol. Soc. 29(3): 90-92, pl. 6, fig. 2 ♂ genitalia.

Original Combination: *Telegonus xerxes*

Type Locality: "British Honduras" [Belize]

Types: Holotype in AMNH.

Genus **Thorybes** Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 71. Type-species: *Papilio bathyllus* J. E. Smith, 1797, in: Smith & Abbot, Ins. Georgia 1: 43, pl. 22, by original designation.

= ‡*Lintneria* W. H. Edwards & Butler, 1877

In: W. H. Edwards, Trans. Am. Entomol. Soc. 6(1): 57, 67.

Type-species: *Papilio daunus* Cramer, 1777, Uitl. Kapellen

2(11): 44, pl. 126, fig. F; (16): 148 (index) (= *Papilio bathyllus* J. E. Smith, 1797, in: Smith & Abbot, Ins. Georgia

1: 43, pl. 22; probably a misidentified type species), by original designation. Preoccupied by *Lintneria* Butler, 1876,

Trans. Zool. Soc. Lond. 9: 620. This genus has been treated as described twice in the same document (e.g., L. Miller and

F. Brown (1981), Mem. Lepid. Soc. (2): 11, 177) but it is clear that the reference in the text (p. 57) is only that. In the

description (p. 67), *Hesperia zampa* is mentioned as one of

- the species contained within the new genus *Lintneria*, but the type is given as above. See comments under *Systasea*.
- = *Cocceius* Godman & Salvin, 1894
 Biol. centr.-amer., Lepid. Rhop. 2(114): 336. Type-species: *Eudamus pylades* Scudder, 1870, Proc. Boston Soc. Nat. Hist. 13: 207, by original designation.
46. ***Thorybes drusius*** (W. H. Edwards, [1884])
 Can. Entomol. 15(11): 211.
Original Combination: *Eudamus Drusius*
Type Locality: "So. Arizona"
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 605, fig. ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 50, fig. 4 ♂ D.
 = *paucipuncta* Dyar, 1916
 Proc. U. S. Nat. Mus. 51(2139): 4.
Original Combination: *Thorybes paucipuncta*
Type Locality: "Sierra de Guerrero, Mexico"
Types: Holotype (#19256) in USNM.
47. ***Thorybes bathyllus*** (J. E. Smith, 1797)
In: Smith & Abbot, Ins. Georgia 1: 43-44, pl. 22, figs. ♂ D, ♀ D, ♀ V, larva, pupa.
Original Combination: *Papilio Bathyllus*
Type Locality: "Georgia" implied from the notes for the original drawing by John Abbot; suggested to be "Burke County, Georgia" by Calhoun (2006), J. Lepid. Soc. 60(1): 31.
Types: Described, at least in part, from a John Abbot drawing. The male specimen which was the model for the image on plate 22 was selected as lectotype by Calhoun (2006), J. Lepid. Soc. 60(1): 31, fig. 21 ♂ D; it is probably lost.
 = *†daunus* (Cramer, 1777)
 Uitl. Kapellen 2(11): 44, pl. 126, fig. F ♂ D; (16): 148 (index).
Original Combination: *Pap[ilio]. Pleb[ejus]. Urbico[la]. Daunus*
Type Locality: "Surinamen" "Suriname", probably in error.
Types: Type(s) probably lost.
 The original description and illustration do not unambiguously identify this skipper. The type locality as given is outside the range of *T. bathyllus*, but may be erroneous. Calhoun (2007), J. Lepid. Soc. 60(1): 105-112, analyzed the original drawing and confirmed that *Papilio daunus* Cramer, 1777, is a nomen dubium.
 = *syloson* (Mabille, 1903)
In: Wytsman, Gen. Ins. (17a): 39.
Original Combination: *Cocceius syloson*
Type Locality: "Cayenne", in error. Mabille and Boulet [1919], Anns. Sci. Nat., Zool. (10)2(4-6): 232, corrected this to "Etats-Unis."
Types: Syntypes in MNHP.
48. ***Thorybes pylades*** (Scudder, 1870)
 a. ***Thorybes pylades pylades*** (Scudder, 1870)

Proc. Boston Soc. Nat. Hist. 13: 207; cited T. Harris (1862), Ins. injur. Veget. (3rd ed.): 312, fig. 135 ♂ D&V (as *Eudamus bathyllus*).

Original Combination: *Eudamus Pylades*

Type Locality: "Massachusetts"

Types: Syntypes in MCZ; a possible syntype was figured by Scudder (1889), Butterflies E. U. S. & Can. 3(11): pl. 9, fig. 5 ♂ D&V.

= ♀ "immaculata" (Skinner, 1911)
Trans. Am. Entomol. Soc. 37(3): 177.

Original Combination: *Eudamus pylades*
immaculata n. var. male

Type Locality: "Philadelphia" [Philadelphia County, Pennsylvania]

Types: "Holotype" (#7175) in CMNH.

The text clearly indicates that this taxon was described as an individual variant.

= ♀ "integra" Lanktree, 1968
Entomol. Rec. & J. Var. 80(9): 215-216, pl. XII, fig. 1 ♂ D, 2 ♂ V, 7 ♂ genitalia ("holotype").

Original Combination: *Thorybes*
pylades ab. *integra*

Type Locality: "N. E. of Port Franks in the hinterland of Lake Huron's south-eastern shore"

Types: Location of "holotype" not known.

b. *Thorybes pylades indistinctus* Austin & J. Emmel, 1998

Syst. W. N. Am. Butterflies (42): 501-502, figs. 1a ♂ D, 1b ♂ V (holotype); 2a ♀ D, 2b ♀ V.

Original Combination: *Thorybes pylades indistinctus*

Type Locality: "California: San Diego County; Laguna Mountains, Boiling Springs"

Types: Holotype in LACM.

c. *Thorybes pylades albosuffusa* H. Freeman, 1943

Entomol. News 54(3): 72.

Original Combination: *Thorybes pylades*
albosuffusa new form

Type Locality: "Fort Davis...Texas" [Jeff Davis County]

Types: Holotype in AMNH.

While this name was initially described as infrasubspecific, H. Freeman (1949), Texas J. Sci. 1(3): 41, listed it as *Thorybes pylades albosuffusa* and explained its application as a subspecies-level taxon, making this name available from its original publication (Code Article 45.6.4.1).

49. *Thorybes confusus* E. Bell, 1923

Trans. Am. Entomol. Soc. 48(3): 205-206.

Original Combination: *Thorybes confusus*

Type Locality: "Tampa, Florida" [Hillsborough County]

Types: Holotype in AMNH; paratypes figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 50, fig. 1 ♂ D, 2 ♀ V.

W. Holland (1931), Butterfly Book (rev. ed.): 335, deliberately emended this name to *confusus*, an unjustified emendation (contra W. Forbes (1960), Mem. Cornell Univ. Agric. Exp. Sta. 371 (part 4): 67).

50. *Thorybes diversus* E. Bell, 1927

Bull. Brooklyn Entomol. Soc. 22(4): 217.

Original Combination: *Thorybes diversus*



- Type Locality:** "Plumas County, California"
Types: Holotype in AMNH.
- *51. **Thorybes mexicana** (Herrich-Schäffer, 1869)
 Corresp-BI. zool.-min. Ver. Regensburg 23(12): 188, no. 21.
Original Combination: [*Eudamus*] *mexicana*
Type Locality: Not stated; syntype labeled "Mexico."
Types: Syntype in ZMHB.
 Species-genus gender conformation is *mexicanus*.
 = *ananius* (Plötz, 1881)
 Stettiner Entomol. Ztg. 43(1-3): 99, no. 77; cited unpublished pl. 131.
Original Combination: [*Eudamus*] *Ananius*
Type Locality: "Mexico"
Types: Type(s) in ZMHB.
 Bridges (1988), Cat. Hesp. (I): 11, suggested that *ananius* was intended as a replacement name for *mexicana*. If so, it would be a junior objective synonym.
- a. **Thorybes mexicana aemilea** (Skinner, 1893)
 Entomol. News 4(2): 64-65.
Original Combination: *Eudamus Aemilea*
Type Locality: "Fort Klamath, Oregon" [Klamath County]
Types: Syntypes (#7076) in CMNH; one figured by W. Holland (1898), Butterfly Book: 325, pl. 46, fig. 39 ♂ D.
- b. **Thorybes mexicana nevada** Scudder, 1872
 4th Ann. Rep. Peabody Acad. Sci. (1871): 71, no. 3.
Original Combination: *T[horybes]. Nevada*
Type Locality: "Sierra Nevada, California (Henry Edwards)"
Types: Syntype (#15828) in MCZ; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 50, fig. 3 ♀ (probably a ♂) D.
- c. **Thorybes mexicana blanca** Scott, 1981
 Papilio (n.s.) 1: 7.
Original Combination: *Thorybes mexicana blanca*
Type Locality: "Crooked Creek lab, 10150', 3 airline mi. N Inyo Co. line, Mono Co., California"
Types: Holotype in EMEC.
- d. **Thorybes mexicana dobra** Evans, 1952
 Cat. Am. Hesp. Brit. Mus. (2): 131.
Original Combination: [*Thorybes mexicana*] *dobra*
Type Locality: "Fort Grant, Arizona" [Graham County]
Types: Holotype in BMNH.

Genus **Cabares** Godman & Salvin, 1894

Biol. centr.-amer., Lepid. Rhop. 2(114): 337. Type-species: *Thanaos potrillo* Lucas, 1857, in: Sagra, Hist. Cuba 7(2): 641, by original designation.

52. **Cabares potrillo** (Lucas, 1857)
- a. **Cabares potrillo potrillo** (Lucas, 1857)
 In: Sagra, Hist. Cuba 7(2): 641.
Original Combination: *Thanaos Potrillo*
Type Locality: "habite l'île de Cuba" "Ce nom est donné à cette espèce, en souvenir de la montagne qui s'élève jusqu'à 3,000 mètres de haut, non loin de la Trinité"; thus, implied to be "Pico Potrerillo."
Types: Type(s) probably in MNHP.

- = *paterculus* (Herrich-Schäffer, 1863)
Corresp-BI. zool.-min. Ver. Regensburg 17(9): 141-142.

Original Combination: *Thanaos paterculus*

Type Locality: "Cuba" implied from the title of the paper.

Types: Syntype (#7148) in ANSP.

Genus **Spathilepia** Butler, 1870

Entomol. Mon. Mag. 7(75): 57. Type-species: *Papilio clonius* Cramer, 1775, Utitl. Kapellen 1(7): 126-127, pl. 80, figs. C, D; (8): 152 (index), by original designation.

53. **Spathilepia clonius** (Cramer, 1775)

Utitl. Kapellen 1(7): 126-127, pl. 80, figs. C ♂ D, D ♂ V; (8): 152 (index).

Original

Combination: *Pap[ilio]. Pleb[ejus]. Urbicol[a]. Clonius*

Type Locality: "Surinamen" "Suriname"

Types: Type(s) probably lost (collection L. Juliaans).

Genus **Cogia** Butler, 1870

Trans. Entomol. Soc. Lond. (4)1870(4): 508. Type-species: *Cogia hassan* Butler, 1870, Trans. Entomol. Soc. Lond. (4)1870(4): 508, by monotypy.

- = *Phoedinus* Godman & Salvin, 1894

Biol. centr.-amer., Lepid. Rhop. 2(114): 335. Type-species: *Eudamus caicus* Herrich-Schäffer, 1869, Corresp-BI. zool.-min. Ver. Regensburg 23(12): 188, no. 19, by designation of Lindsey (1921), Bull. Labs. Nat. Hist. St. Univ. Iowa 9(4): 35. Not homonymous with "*Phoedinus*" Doumerc [1835]: 821, 825 (index), which is an incorrect subsequent spelling of *Phaedinus* Duponchel, 1834, Annls. Entomol. Soc. Fr. 3: 38; not homonymous with "*Phoedinus*" Duponchel, 1836, Mag. Zool. 6: pl. (Ins.), which is also an incorrect subsequent spelling of *Phaedinus* Duponchel, 1834; not homonymous with "*Phoedinus*" Guérin-Ménéville, 1838, Rev. Zool. (Soc. Cuvier) 1838: 286, which is a duplication of the above misspelling. Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 20, stated that Godman and Salvin selected the type-species of this genus, but Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 359, correctly fixed the type-species as indicated. Tilden (1949), Bull. South. Calif. Acad. Sci. 48(1): 4-6, and (1975), J. Lepid. Soc. 29(1): 60-61, discussed the validity of this genus (and the supposed homonymy), as well as its relationship to *Cogia*. L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 13-14, accepted the erroneous homonymy. Ferris (1989), Mem. Lepid. Soc. (3): 7, placed *Phoedinus* as a synonym of *Cogia*.

- = ‡*Anaperus* Mabilie & Boulet, 1919

Annls. Sci. Nat., Zool. (10)2(4-6): 232. Type-species: *Eudamus caicus* Herrich-Schäffer, 1869, Corresp-BI. zool.-min. Ver. Regensburg 23(12): 188, no. 19, as a replacement name; introduced to replace *Phoedinus*, erroneously thought preoccupied. Preoccupied by *Anaperus* Tröschel, 1860, Inhaltsverz. S. B. Ges. Nat. Fr. Berl. 1860: 16, and also a junior objective synonym of *Phoedinus*.

- = ‡*Caicella* Hemming, 1934

Stylops 3(6): 144. Type species: *Eudamus caicus* Herrich-Schäffer, 1869, Corresp-BI. zool.-min. Ver. Regensburg 23(12): 188, no. 19, as replacement name. Introduced to

replace *Phoedinus*, erroneously thought preoccupied (and *Anaperus*, preoccupied); a junior objective synonym of *Phoedinus*.

54. **Cogia hippalus** (W. H. Edwards, 1882)
 - a. **Cogia hippalus hippalus** (W. H. Edwards, 1882)
Papilio 2(2): 27.
Original Combination: *Eudamus Hippalus*
Type Locality: "Tucson and at Prescott"; lectotype from "Tucson." [Pima County, Arizona]
Types: Lectotype (#33620) in USNM, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 609, fig. 4 ♂ D&V.
= *gila* (Plötz, 1886)
Stettiner Entomol. Ztg. 47(1-3): 91-92, no. 86b.
Original Combination: [*Hesperia*] *Gila*
Type Locality: "Arizona"
Types: Type(s) probably lost.
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 151, determined this synonymy through an examination of the unpublished drawing (pl. 1370) made by Plötz.
55. **Cogia outis** (Skinner, 1894)
Entomol. News 5(10): 332; figured by Skinner (1911), Trans. Am. Entomol. Soc. 37(3): pl. 10.
Original Combination: *Eudamus outis*
Type Locality: "Blanco County, Texas"; holotype labeled "Round Mt., Texas."
Types: Syntype (#7072) in CMNH; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 50, fig. 11 ♂ D.
- *56. **Cogia caicus** (Herrich-Schäffer, 1869)
 - a. **Cogia caicus moschus** (W. H. Edwards, 1882)
Papilio 2(8): 141-142.
Original Combination: *Eudamus Moschus*
Type Locality: "Fort Grant and in Graham Mountains, Arizona" implied from the title of the paper; suggested to be "vicinity of Fort Grant at the foot of Mount Graham, Graham County, Arizona" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 606.
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 607, fig. 3 % D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 50, fig. 13 ♂ D (lectotype), 14 ♂ V (paralectotype).
57. **Cogia calchas** (Herrich-Schäffer, 1869)
Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 188, no. 22.
Original Combination: [*Eudamus*] *calchas*
Type Locality: Not stated; holotype from "Rio." [Rio de Janeiro, Brazil]
Types: Holotype in NMW.
= *terranea* (Butler, 1872)
Lepid. Exot. (8): 111, pl. 40, fig. 8 ♂ V.
Original Combination: *S[pathilepia]*. *Terranea*
Type Locality: "Cartago, Costa Rica"
Types: Holotype in BMNH.
= ‡"anacreon" (Plötz, 1881)
Stettiner Entomol. Ztg. 43(1-3): 99, under no. 78.

Original

Combination: [*Eudamus*] *Calchas* [synonym] *Anacraeon*

Type Locality: "Venezuela"

This name was listed in synonymy without a description or indication; a *nomen nudum*.



Subfamily **Pyrginae** Burmeister, 1878

Descr. phys. Rép. Argentine 5(Lépid.)(1): 245. Type-genus: *Pyrgus* Hübner, [1819], Verz. bekannt. Schmett. (7): 109. Though this name is junior to *Pyrrhopygini* Mabille, 1877, it is maintained as the most widely used name for this family group (Code Article 35.5).

Tribe **Pyrrhopygini** Mabille, 1877

Petites Nouv. Entomol. 2(179): 161. Type-genus: *Pyrrhopyge* Hübner [1819], Verz. bekannt. Schmett. (7): 103.

Subtribe **Pyrrhopygina** Mabille, 1877

Genus **Apyrrothrix** Lindsey, 1921

Bull. Labs. Nat. Hist. St. Univ. Iowa 9(4): 15-16. Type-species: *Erycides araxes* Hewitson, 1867, Descr. one hundred new spec. Hesp. (1): 2, by original designation. The generic arrangement follows Mielke (2002), Revta. bras. Entomol. 19(1):217-228.

***58. Apyrrothrix araxes** (Hewitson, 1867)

Descr. one hundred new spec. Hesp. (1): 2, no. 2.

Original Combination: *Erycides Araxes*

Type Locality: "Mexico"

Types: Holotype in BMNH.

= *cyrillus* (Plötz, 1879)

Stettiner Entomol. Ztg. 40(10-12): 529, no. 38; cited unpublished pl. 1251.

Original Combination: [*Pyrrhopyga*] [*sic!*] *Cyrillus*

Type Locality: "Oaxaca" [Mexico]

Types: Holotype (#4926) in ZMHB.

a. Apyrrothrix araxes arizonae (Godman & Salvin, 1893)

Biol. centr.-amer., Lepid. Rhop. 2(107): 253, under no. 12.

Original Combination: *Pyrrhopyge arizonae*

Type Locality: "Arizona...the neighborhood of Fort Grant" [Graham County]

Types: Syntypes in BMNH.

This was treated as a species-level taxon by Burns and Janzen (2001), J. Lepid. Soc. 55(1): 38; a status questioned by Opler and A. Warren (2002), Sci. Names List Butterflies N. A.: 3.

Tribe **Celaenorrhinini** Swinhoe, 1912

In: Moore, Lep. Ind. 10(109): 1. Type-genus: *Celaenorrhinus* Hübner, [1819], Verz. bekannt. Schmett.

Genus **Celaenorrhinus** Hübner, [1819]

Verz. bekannt. Schmett. (7): 106-107. Type-species: *Papilio eligius* Stoll, 1781, Uitl. Kapellen 4(30): 123-124, pl. 354, fig. H; (34): 249 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 137, no. 236. de Jong (1982), J. Nat. Hist. 16(5): 695-705, discussed the morphology and systematics of *Celaenorrhinus*, and added *Charmion* and *Orneates* to the synonymy. Austin and Steinhauser (1996), Insecta Mundi 10(1/4): 36-37, corroborated this.

= *Ancistrocampta* C. Felder & R. Felder, 1862



- Wien. entomol. Monatschr. 6(6): 183. Type-species: *Ancistrocampta syllius* C. Felder & R. Felder, 1862, Wien. entomol. Monatschr. 6(6): 184, no. 170, by monotypy.
- = *Hantana* Moore, [1881]
Lepid. Ceylon 1(4): 179. Type-species: *Eudamus infernus* R. Felder, 1868, Verh. zool.-bot. Ges. Wien. 18: 283 (= *Eudamus spilothyrsus* R. Felder, 1868, Verh. zool.-bot. Ges. Wien. 18: 283; synonym), by original designation. First reviser choice of *spilothyrsus* over *infernus* was made by Evans (1926), J. Bombay Nat. Hist. Soc. 31(1): 67.
- = *Gehlota* Doherty, 1889
J. asiat. Soc. Bengal, Pt. II 58(1): 131. Type-species: *Plesioneura sumitra* Moore, [1866], Proc. Zool. Soc. Lond. 1865(3): 787, by designation of E. Watson (1893), Proc. Zool. Soc. Lond. 1893(1): 49.
- = *Narga* Mabille, 1891
Annls. Soc. Entomol. Belg. 35(c.r.)(16): lxx. Type-species: *Narga chiriquensis* Mabille, 1891, Annls. Soc. Entomol. Belg. 35(c.r.)(16): lxx (= *Tagiades monartus* Plötz, 1884, Jb. nassau. Ver. Naturk. 37: 49, no. 41; synonym), by designation of E. Watson (1893), Proc. Zool. Soc. Lond. 1893(1): 130.
- = *Orneates* Godman & Salvin, 1894
Biol. centr.-amer., Lepid. Rhop. 2(114): 345. Type-species: *Eudamus aegiochus* Hewitson, 1876, Ann. Mag. Nat. Hist. (4)18(106): 350, by original designation.
- = *Charmion* de Nicéville, 1894
J. asiat. Soc. Bengal, Pt. II 63(1): 48. Type-species: *Hesperia ficulnea* Hewitson, 1868, Descr. one hundred new spec. Hesp. (2): 37, no. 33, by original designation.
- = *Apallaga* Strand, 1911
Entomol. Rundsch. 28(18): 143. Type-species: *Apallaga separata* Strand, 1911, Entomol. Rdsch. 28(18): 144 (= *Pterygospidea mokeezi* Wallengren, 1857, K. svenska VetenskAkad. Handl. (4)2(1)(no. 4): 54, no. 3; subspecies), by monotypy.
59. **Celaenorrhinus fritzgaertneri** (Bailey, 1880)
Bull. Brooklyn Entomol. Soc. 3(7): 62-63.
Original Combination: *Pleusioneura* [sic!] *FritzGaertneri*
Type Locality: "an old deserted mine...at a depth of eighty feet...near the Volcano de San Miguel, in the vicinity of Lama Larga in the Republic of Salvadore...six hundred feet above the sea level" [El Salvador]
Types: Location of type not known (USNM?).
= *variegatus* Godman & Salvin, 1894
Biol. centr.-amer., Lepid. Rhop. 2(119): 383, no. 2; 3(121): pl. 85, figs. 2 ♂ D, 3 ♂ V, 4 ♂ genitalia.
Original Combination: *Celaenorrhinus variegatus*
Type Locality: "Mexico, Dos Arroyos, Venta de Zopilote, Tierra Colorada in Guerrero...Jalapa, Coatepec...Guatemala, Volcan de Santa Maria...Nicaragua, Chontales"
Types: Syntypes in BMNH.
Steinhauser (1975), Bull. Allyn Mus. (29): 10, determined that this taxon represents non-seasonal dimorphism.
60. **Celaenorrhinus stallingsi** H. Freeman, 1946
Entomol. News 57(8): 185-186, fig. 1 ♂ genitalia.
Original Combination: *Celaenorrhinus stallingsi*
Type Locality: "Monterrey, Mexico" [Nuevo León]

Types: Holotype in PMNH; figured by Howe (1975),
Butterflies N. Am.: pl. 45, fig. 11 ♂ D&V.

Tribe **Carcharodini** Verity, 1940

Farfalle diurne Ital. 1: 10 (as "Carcharodidi"). Type-genus: *Carcharodus* Hübner, [1819], Verz. bekannt. Schmett. (7): 110. I.C.Z.N. *Opinions* 181 and 270 placed *Carcharodus* on the *Official List of Generic Names in Zoology* as name no. 686.

Genus **Arteurotia** Butler & H. Druce, 1872

Cist. Entomol. 1(5): 112. Type-species: *Arteurotia tractipennis* Butler & H. Druce, 1872, Cist. Entomol. 1(5): 112, by original designation.

61. **Arteurotia tractipennis** Butler & H. Druce, 1872
a. Arteurotia tractipennis tractipennis Butler & H. Druce, 1872
Cist. Entomol. 1(5): 112; figured by Butler (1874), Lepid. Exot.: pl. 64, fig. 5 ♂ D.
Original Combination: *A[arteurotia]. Tractipennis*
Type Locality: "Cartago, Costa Rica" implied from the title and introduction to the paper.
Types: Holotype in BMNH.
= *ribbei* (Staudinger, 1876)
Verh. zool.-bot. Ges. Wien 25: 117, no. 34.
Original Combination: *Helias (?) Ribbei*
Type Locality: "aus Chiriqui" [Panama]
Types: Type(s) probably in ZMHB.

Genus **Nisoniades** Hübner, [1819]

Verz. bekannt. Schmett. (7): 108. Type-species: *Papilio bromius* Stoll, 1787, Aanhangs. Werk Uitl. Kapellen Pieter Cramer (1): 37, pl. 8, figs. 1, 1a, 1b, 1c, 1d; (3): 382 (index) (= *Papilio mimas* Cramer, 1775, Uitl. Kapellen 1(5): 83, pl. 52, figs. E, F; (8): 152 (index); synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 228, no. 752.

- = ‡*Pellicia* Plötz, 1879
Stettiner Entomol. Ztg. 40(4/6): 176, 179. Type-species: *Pellicia macarius* Herrich-Schäffer, 1870, Corresp.-Bl. zool.-min. Ver. Regensburg 24(9/10): 160, no. 1, by original designation. Preoccupied by *Pellicia* Herrich-Schäffer, 1870, Corresp.-Bl. zool.-min. Ver. Regensburg 24(9/10): 159.
62. **Nisoniades rubescens** (Möschler, 1877)
Verh. zool.-bot. Ges. Wien 26: 340-341, pl. 4, fig. 29.
Original Combination: [*Pellicia*] *Rubescens*
Type Locality: "Surinam...Brasilien"; suggested to be "Surinam" by Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 49, as implied from the title of the paper.
Types: Syntypes should be in NMW.
= *bromias* (Godman & Salvin, 1894)
Biol. centr.-amer., Lepid. Rhop. 2(118): 370, no. 4; 3(119): pl. 83, figs. 13 ♂ D, 14 ♂ V, 15 ♀ D.
Original Combination: *Pellicia bromias*
Type Locality: "Mexico, Acapulco, Chilpancingo, Dos Arroyos, Atoyac, Teapa...Guatemala, Dueñas...Costa Rica, Caché...Panama, Chiriqui"; suggested to be "Mexico" by Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 49.
Types: Syntypes in BMNH.
= *triangulus* (Mabille, 1898)

Annls. Soc. Entomol. Fr. 66(2/3): 198-199.

Original Combination: *Achlyodes triangulus*

Type Locality: "Tanampaya, Bolivie"

Types: Syntypes probably in ZMHB (Staudinger collection).

= *clara* (Mabille & Boulet, 1917)

Bull. Soc. Entomol. Fr. 1916(20): 323.

Original Combination: *Pellicia Bromias* var. *clara*

Type Locality: "Guyane française, Brésil, Argentine"; suggested to be "French Guiana" by Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 49.

Types: Syntypes in MNHP.

= *nigra* (Mabille & Boulet, 1917)

Bull. Soc. Entomol. Fr. 1916(20): 323.

Original Combination: *Pellicia Bromias* var. *nigra*

Type Locality: "Brésil, Argentine...Colombie, Guyane, Bolivie"; suggested to be "Brazil" by Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 49.

Types: Syntypes in MNHP.

Genus *Pellicia* Herrich-Schäffer, 1870

Corresp-BI. zool.-min. Ver. Regensburg 24(9/10): 159. Type-species: *Pellicia dimidiata* Herrich-Schäffer, 1870, Corresp-BI. zool.-min. Ver. Regensburg 24(9/10): 160, no. 1, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 243, no. 824.

= *Hemipteris* Mabille, 1889

Naturaliste (2)3(61): 216. Type-species: *Hemipteris*

fumida Mabille, 1889, Naturaliste (2)3(61)[11(61)]: 216 (= *Pellicia tyana* Plötz, 1882, Berl. Entomol. Z. 26(2): 255, no. 12), by monotypy.

63. *Pellicia arina* Evans, 1953

Cat. Am. Hesp. Brit. Mus. (3): 58; cited Godman & Salvin (1894), Biol. centr.-amer., Lepid. Rhop. 3(119): pl. 83, figs. 16 ♂ D, 17 ♂ V (as *Pellicia costimacula*).

Original Combination: [*Pellicia costimacula*] *arina*

Type Locality: "Mexico, Atoyac, Vera Cruz" [Veracruz]

Types: Holotype in BMNH.

Steinhauser (1989), Bull. Allyn Mus. (127): 29, detailed the species-level status of this taxon, corroborating L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 15, 208, note 37.

64. *Pellicia dimidiata* Herrich-Schäffer, 1870

a. *Pellicia dimidiata dimidiata* Herrich-Schäffer, 1870

Corresp-BI. zool.-min. Ver. Regensburg 24(9/10): 160. no. 5; cited unpublished Plötz pl. 199.

Original Combination: *Pellicia Dimidiata*

Type Locality: "Mexico"

Types: Location of type(s) not known.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 136, determined the following synonymy through an examination of the unpublished drawings made by Plötz.

= *didia* Möschler, 1877

Verh. zool.-bot. Ges. Wien 26: 340, pl. 4, fig. 28.

Original Combination: [*Pellicia*] *Didia*

Type Locality: "aus dem Innern Suriname"

Types: Holotype may be in NMW.

= *corinna* Plötz, 1882

Berl. Entomol. Z. 26(2): 254, no. 9; cited unpublished pl. 199.



- Original Combination:** [*Pellicia*] *Corinna*
Type Locality: "Laguayra, Mex." [Venezuela]
Types: Type(s) may be in ZSMC.
- = *nivonicus* (Plötz, 1884)
 Jb. nassau. Ver. Naturk. 37: 14, no. 3, cited unpublished pl. 956.
Original Combination: [*Achlyodes*] *Nivonicus*
Type Locality: "Mexico"
Types: Type(s) may be in ZSMC.
- = *bilinea* Mabille, 1889
 Naturaliste (2)3(61): 216-217, fig. 3 ♂ D&V.
Original Combination: *Pellicia bilinea*
Type Locality: "Chiriqui" [Panama]
Types: Syntype probably in ZMHB (Staudinger collection).
- = *bobae* (Weeks, 1906)
 Entomol. News 17(6): 203; figured by Weeks (1911), Ill. diurn. Lepid. 2: pl. 7, fig. 1 ♂ D&V.
Original Combination: *Pamphila bobae*
Type Locality: "Suapure, Venezuela"
Types: Holotype (#16717) in MCZ.
- = *hypsipyle* Hayward, 1947
 Acta zool. Lilloana 4: 121-122, fig. 1 ♂ genitalia.
Original Combination: *Pellicia hypsipyle*
Type Locality: "Villavicencio, Colombia"
Types: Holotype in IMLA.

Genus **Windia** H. Freeman, 1969

J. Lepid. Soc. 23(suppl. 2): 16-17. Type-species: *Windia windi* H. Freeman, 1969, J. Lepid. Soc. 23(suppl. 2): 17-18, pl. 6, figs. 7, 8, pl. 15, fig. 6, by original designation.

65. **Windia windi** H. Freeman, 1969
 J. Lepid. Soc. 23(suppl. 2): 17-18, pl. 6, figs. 7 ♂ D, 8 ♂ V (holotype); pl. 15, fig. 6 ♂ genitalia.
Original Combination: *Windia windi*
Type Locality: "Salada, Colima, Mexico"
Types: Holotype in AMNH.
 Recorded from Arizona by Opler and A. Warren (2002), Sci. Names List Butterflies N. A.: 7.

Genus **Noctuana** E. Bell, 1937

Am. Mus. Novit. (914): 7-8. Type-species: *Helias noctua* C. Felder & R. Felder, 1867, Reise Novara Zool. (3): 533, no. 942, pl. 74, figs. 1, 2, by original designation.

66. **Noctuana stator** (Godman & Salvin, 1899)
 Biol. centr.-amer., Lepid. Rhop. 2(148): 460, no. 3; 3(148): pl. 91, figs. 33 ♂ D, 34 ♂ V, 35 ♂ genitalia.
Original Combination: *Theagenes stator*
Type Locality: "Mexico"
Types: Syntypes in BMNH.
 Recorded from Texas by [Anonymous] (2000), Am. Butterflies 8(1): 43.

Genus **Bolla** Mabille, 1903

In: Wytsman, Gen. Ins. (17a): 46, 72. Type-species: *Bolla pullata* Mabille, 1903, in: Wytsman, Gen. Ins. (17a): 72 (= *Staphylus imbras* Godman & Salvin, 1896, Biol. centr.-amer., Lepid Rhop 2(131): 435, no. 11; 3(131): pl. 89, figs. 27 ♂ D, 28 ♂ genitalia, 29 ♀ D; synonym), by designation of Lindsey

(1921), Bull. Labs. Nat. Hist. St. Univ. Iowa 9(4): 43. Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 79, credited Mabille with an original type-species designation, but that was in error as Mabille merely mentioned *Bolla* in conjunction with *pullata*.

67. ***Bolla brennus*** (Godman & Salvin, 1896)
 a. ***Bolla brennus brennus*** (Godman & Salvin, 1896)
 Biol. centr.-amer., Lepid. Rhop. 2(131): 434-435, no. 9;
 3(131): pl. 89, fig. 23 ♂ D.
Original Combination: *Staphylus brennus*
Type Locality: "Panama...Volcan de Chiriqui 2500 to
 4000 feet, David...Chiriqui"
Types: Syntype(s) in BMNH.
68. ***Bolla clytius*** (Godman & Salvin, 1897)
 Biol. centr.-amer., Lepid. Rhop. 2(137): 442, no. 2; 3(138):
 pl. 90, figs. 13 ♂ D, 14 ♂ V.
Original Combination: *Pholisora clytius*
Type Locality: "Mexico, Tres Marias Is." [Nayarit]
Types: Syntype(s) in BMNH.
 = *semitincta* Dyar, 1924
 Insecutor Inscit. menstr. 12(1-3): 15.
Original Combination: *Bolla semitincta*
Type Locality: "Colima, Mexico"
Types: Holotype in USNM.

Genus ***Staphylus*** Godman & Salvin, 1896

Biol. centr.-amer., Lepid. Rhop. 2(131): 429. Type-species: *Helias ascalaphus* Staudinger, 1876, Verh. zool.-bot. Ges. Wien 25: 116, no. 31, by original designation.

- = *Scantilla* Godman & Salvin, 1896
 Biol. centr.-amer., Lepid. Rhop. 2(131): 437. Type-species: *Scantilla opites* Godman & Salvin, 1896, Biol. centr.-amer., Lepid. Rhop. 2(131): 437; 3(138): pl. 90, figs. 3, 4, 5
 (= *Tagiades vincula* Plötz, 1886, Stettiner Entomol. Ztg. 47(1-3): 113; synonym), by monotypy.
69. ***Staphylus ceos*** (W. H. Edwards, 1882)
 Papilio 2(8): 140.
Original Combination: *Pholisora Ceos*
Type Locality: "Fort Grant and in Graham Mountains, Arizona" implied from the title of the paper; suggested to be "vicinity of Fort Grant, in canyons at foot of Mount Graham, Graham County, Arizona", by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 612.
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 613, fig. 6 ♂ D&V.
70. ***Staphylus mazans*** (Reakirt, [1867])
 Proc. Acad. Nat. Sci. Philad. 18(4): 335, no. 35.
Original Combination: *Carcharodus mazans*
Type Locality: "Mexico (near Vera Cruz)" [Veracruz]
Types: Type(s) may be lost.
 Reakirt described many taxa from "coll. W. H. Edwards"
 Some of his types are in the Strecker collection (FMNH), and others might be in W. H. Edwards' collection (CMNH). L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 208, note 40, were unable to find the type(s) of this taxon.
71. ***Staphylus hayhurstii*** (W. H. Edwards, 1870)
 Trans. Am. Entomol. Soc. 3(1): 10, 22, no. 18.
Original Combination: *Hesperia Hayhurstii*



Type Locality: "Missouri"; suggested to be "vicinity of Sedalia, Missouri" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 610-611.

Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 611, fig. 5 ♂ D&V.

Genus **Pholisora** Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 72. Type-species: *Hesperia catullus* Fabricius, 1793, Entomol. Syst. 3(1): 348, no. 323, by original designation.

72. **Pholisora catullus** (Fabricius, 1793)
Entomol. Syst. 3(1): 348, no. 323; cited Jones' Icones 6: pl. 80, fig. 2 D&V; figured by Donovan (1800), Epit. Ins. India: pl. [50], fig. 4 (a copy from Jones' Icones).
Original Combination: *H[esperia]. U[rbicola]. Catullus*
Type Locality: "Indiis"
Types: Type(s) probably lost.
73. **Pholisora mejicanus** (Reakirt, [1867])
Proc. Acad. Nat. Sci. Philad. 18(4): 334, no. 32.
Original Combination: *Nisoniades Mejicanus*
Type Locality: "Mexico (near Vera Cruz)" [Veracruz]
Types: Type(s) may be in FMNH.
Godman & Salvin (1897), Biol. centr.-amer., Lepid. Rhop. 2(137): 441; 3: pl. 90, figs. 11 ♂ D, 12 ♂ V, used *mexicana*, but cited *mejicanus* as a synonym, so *mexicana* is an unjustified emendation.

Genus **Hesperopsis** Dyar, 1905

J. N. Y. Entomol. Soc. 13(3): 118. Type-species: *Thanaos alpheus* W. H. Edwards, 1876, Trans. Am. Entomol. Soc. 5(3/4): 206, by original designation. Stanford (1981), in: Ferris and F. Brown, Butterflies Rocky Mtn. States: 87, detailed the genus-level status of this taxon.

74. **Hesperopsis libya** (Scudder, 1878)
- a. **Hesperopsis libya joaquina** J. Emmel, T. Emmel & Mattoon, 1998
Syst. W. N. Am. Butterflies (15): 202-203, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.
Original Combination: *Hesperopsis libya joaquina*
Type Locality: "California: Kern County; McKittrick"
Types: Holotype in LACM.
- b. **Hesperopsis libya libya** (Scudder, 1878)
Bull. U. S. Geol. Geogr. Surv. Terr. 4(1)(10): 258.
Original Combination: *Heteropterus libya*
Type Locality: "Beaver Dam"; determined to be "Littlefield, Mohave Co., Arizona: 1846', T40N R15W, 36° 53' N/113° 56' W" by F. Brown (1967), J. Lepid. Soc. 21(2): 134.
Types: Syntype (#16590) in MCZ.
- c. **Hesperopsis libya confertiblanca** Scott, 1992
Papilio (n.s.) 6: 173.
Original Combination: *Hesperopsis libya confertiblanca*
Type Locality: "N Montrose, Montrose Co. Colo."
Types: Holotype in LACM.
- d. **Hesperopsis libya lena** (W. H. Edwards, 1882)
Can. Entomol. 14(1): 5-6.
Original Combination: *Ancyloxypha Lena*
Type Locality: "Montana"



- Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 645-646, fig. 24 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 50, fig. 36 ♂ V.
75. **Hesperopsis alpheus** (W. H. Edwards, 1876)
- a. **Hesperopsis alpheus oricus** (W. H. Edwards, 1879)
Can. Entomol. 11(3): 51.
Original Combination: *Pholisora oricus*
Type Locality: "Nevada" implied from the title of the paper; defined as "Buffalo Canyon, Desatoga Mtns., Churchill County in areas of *Atriplex canescens*" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 643-645; corrected to "Carson Valley, Douglas County, Nevada" by Austin (1998), Syst. W. N. Am. Butterflies (50): 629, who determined that there are *nooricus* populations at the type locality as defined by F. Brown and L. Miller.
Types: Holotype in CMNH; figured by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): fig. 23 ♂ D&V.
MacNeill (1970), Entomol. News 81(7): 182-183, elevated this taxon to the subspecies-level.
= *arizonensis* Mabilie & Boulet, 1917
Bull. Soc. Entomol. Fr. 1917(4): 100.
Original Combination: *Hesperopsis arizonensis*
Type Locality: "Arizona, U. S."
Types: Holotype in MNHP.
- b. **Hesperopsis alpheus alpheus** (W. H. Edwards, 1876)
Trans. Am. Entomol. Soc. 5(3/4): 206.
Original Combination: *Thanaos Alpheus*
Type Locality: "New Mexico"; defined as "sage brush country in Colfax County, New Mexico" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 641.
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 643, fig. 22 ♂ D&V.
= *texana* Scott, 1981
Papilio (n.s.) 1: 8.
Original Combination: *Pholisora alpheus texana*
Type Locality: "Boca Chica, 20-22 mi. E. Brownsville, Cameron Co. Texas"
Types: Holotype in LACM.
Species-genus gender conformation is *texanus*.
76. **Hesperopsis graciellae** (MacNeill, 1970)
Entomol. News 81(7): 177-179, figs. 1 top row ♂&♀ D, 2nd row ♂&♀ D (spring), 2 top row ♂&♀ V, 2nd row ♂&♀ V (fall) (including holotype?), 5 ♂ head, 6 ♂ genitalia.
Original Combination: *Pholisora graciellae*
Type Locality: "California, San Bernardino Co., Bennett Wash, vicinity Parker Dam"
Types: Holotype in CAS.
Scott (1981), Papilio (n.s.) 1: 8, and (1986), Butterflies N. Am.: 500, considered this taxon to be conspecific with *alpheus*.

Tribe Erynnini Brues & F. Carpenter, 1932

Bull. Harvard Mus. Comp. Zool. 73: 235-236, couplet 156c (as "Erynninae"). Type-genus: *Erynnis* Schrank, 1801, Fauna boic. 2(1): 152, no. 197. Brues and Carpenter diagnosed

Erynninae in a key; this is the only valid proposal of a family-group name based of the genus *Erynnis* properly identified.



Genus **Gorgythion** Godman & Salvin, 1896

Biol. centr.-amer., Lepid. Rhop. 2(128): 424. Type-species: *Helias pyralina* Möschler, 1876, Verh. zool.-bot. Ges. Wien 26: 343, pl. 4, fig. 31 (= *Goniloba begga* Prittwitz, 1868, Stettiner Entomol. Ztg. 29(4-6): 198, no. 60; subspecies), by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 88.

= *Escalophoides* Köhler, 1923
Z. wiss. InsektBiol. 18(12)(Sonderheft): 33. Type-species: *Helias tucumana* Burmeister, 1878, Descr. phys. Rép. Argentine 5(Lépid.)(1): 261-262, no. 7 (= *Goniloba begga* Prittwitz, 1868, Stettiner Entomol. Ztg. 29(4-6): 198, no. 60; subspecies), by monotypy.

- *77. **Gorgythion begga** (Prittwitz, 1868)
Stettiner Entomol. Ztg. 29(4-6): 198, no. 60.
Original Combination: [*Goniloba*] *Begga*
Type Locality: Not stated.
Types: Location of type(s) not known.
= *tucumana* (Burmeister, 1878)
Descr. phys. Rép. Argentine 5(Lépid.)(1): 261-262, no. 7.
Original Combination: *Helias Tucumana*
Type Locality: "Tucuman, Argentina" implied from name and title of the book.
Types: Type(s) should be in MACN.
a. **Gorgythion begga pyralina** (Möschler, 1877)
Verh. zool.-bot. Ges. Wien 26: 343, pl. 4, fig. 31 D.
Original Combination: [*Helias*?] *Pyralina*
Type Locality: "Paramaribo...dem Innern Surinams"
Types: Type(s) probably in ZMHB.
= *marginata* Schaus, 1902
Proc. U. S. Nat. Mus. 24(1262): 431.
Original Combination: *Gorgythion Marginata*
Type Locality: "Peru"
Types: Holotype (#5982) in USNM.

Genus **Sostrata** Godman & Salvin, 1895

Biol. centr.-amer., Lepid. Rhop. 2(121): 397. Type-species: *Leucochitonea scintillans* Mabille, 1876, Bull. Séances Soc. Entomol. Fr. (5)6(3): cc (= *Hesperia bifasciata* Ménétriés, 1829, Nouv. Mém. Soc. Imp. Nat. Moscou 1: 193, pl. 7, figs. 6, 7; synonym), by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 101.

78. **Sostrata nordica** Evans, 1953
Cat. Am. Hesp. Brit. Mus. (3): 126.
Original Combination: [*Sostrata bifasciata*] *nordica*
Type Locality: "Mexico"
Types: Holotype in BMNH.
Llorente *et al.* (1990), Publ. esp. Mus. Zool. 1: 30, A.
Warren *et al.* (1998), J. Lepid. Soc. 52(1): 51, A. Warren (2000), *in*: Llorente *et al.*, Biodivers. Taxon. Biogeogr. Artrópod. Méx. 2: 552, and other recent authors, have treated *nordica* as a species-level taxon.

Genus **Mylon** Godman & Salvin, 1894

Biol. centr.-amer., Lepid. Rhop. 2(119): 384. Type-species: *Leucochitonea lassia* Hewitson, 1868, Descr. one hundred new spec. Hesp. (2): 49, no. 10, by original designation.
= *Eudamidas* Godman & Salvin, 1894

Biol. centr.-amer., Lepid. Rhop. 2(121): 386. Type-species: *Papilio melander* Cramer 1780, Uitl. Kapellen 3(23): 141, pl. 270, fig. H; (24): 175 (index) (= *Papilio maimon* Fabricius, 1775, Syst. Entomol.: 534, no. 395; synonym), by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 86.

79. **Mylon pelopidas** (Fabricius, 1793)
Entomol. Syst. 3(1): 350, no. 331; cited Jones' Icones 6: pl. 27, fig. 2 D&V.
Original Combination: *H[esperia]. U[rbicola]. Pelopidas*
Type Locality: "Indiis"
Types: Type(s) probably lost.
Recorded from Arizona by K. Davis *et al.* (2005), News Lepid. Soc. 47(4): 103, 104, figs. 1-4, 106, 110-111, fig. 114.
= *ozema* Butler, 1870
Trans. Entomol. Soc. Lond. (4)18(4): 515, no. 4.
Original Combination: *Achlyodes Ozema*
Type Locality: "Nicaragua...Honduras, St. Paulo, Tapejos"
Types: Syntypes in BMNH.
= ‡"brunnea" Mabilie & Bouillet, 1917
Bull. Soc. Entomol. Fr. 1917(1): 323.
Original Combination: *Mylon ozema* ab. *brunnea*
Type Locality: "Mexique, Brésil"
Types: "Holotype" in MNHP.

Genus **Grais** Godman & Salvin, 1894

Biol. centr.-amer., Lepid. Rhop. 2(119): 381. Type-species: *Anastrus stigmaticus* Mabilie, 1883, Annl. Soc. Entomol. Belg. 27(c.r.)(31): liv, by original designation.

80. **Grais stigmaticus** (Mabilie, 1883)
a. **Grais stigmaticus stigmaticus** (Mabilie, 1883)
Annl. Soc. Entomol. Belg. 27(c.r.)(31): liv.
Original Combination: *Anastrus stigmaticus*
Type Locality: "Brasilia"; "Chiriqui (Panama)" on label of holotype.
Types: Holotype in MNHP.
Species-genus gender conformation is *stigmatica*.
= *fumosus* (Plötz, 1884)
Jb. nassau. Ver. Naturk. 37: 26, no. 31; cited unpublished pl. 1017.
Original Combination: [*Antigonus*] *Fumosus*
Type Locality: "Brasilien"
Types: Type(s) may be in ZSMC or lost.

Genus **Timochares** Godman & Salvin, 1896

Biol. centr.-amer., Lepid. Rhop. 2(128): 417. Type-species: *Leucochitonea trifasciata* Hewitson, 1868, Descr. one hundred new spec. Hesp. (2): 50, no. 11, by designation of Lindsey (1921), Bull. Labs. Nat. Hist. St. Univ. Iowa 9(4): 55.

81. **Timochares ruptifasciata** (Plötz, 1884)
Jb. nassau. Ver. Naturk. 37: 27, no. 33; cited unpublished pl. 1018.
Original Combination: [*Antigonus*] *Ruptifasciata*
Type Locality: "Süd-Amerika"
Types: Type(s) may be in ZSMC or lost.
Species-genus gender conformation is *ruptifasciatus*.

- = *obscurior* Draudt, 1923
In: Seitz, Grossschmett. Erde 5(324): 907; (329): pl. 176i, fig. [7] ♂ D.
Original Combination: [*Timochares trifasciata*] form *obscurior*
Type Locality: Not precisely stated; lectotype from "Honduras: San Pedro Sula."
Types: Lectotype (#L 4052) in SMF, designated by Mielke and Schroeder (1994), Senckenberg. biol. 73(1/2): 139, fig. 10 ♂ genitalia.
Austin and A. Warren (2002), Dugesiana 9(2): 26, determined this synonymy.

Genus **Anastrus** Hübner, [1824]

Samml. exot. Schmett. 2: pl. [149]. Type-species: *Anastrus obscurus* Hübner, [1824], Samml. exot. Schmett. 2: pl. [149], figs. 3, 4, by monotypy.

- = *Echelatus* Godman & Salvin, 1894
Biol. centr.-amer., Lepid. Rhop. 2(119): 378. Type-species: *Anastrus varius* Mabille, 1883, Annls. Soc. Entomol. Belg. 27(c.r.)(31): liv (= *Achlyodes sempiternus* Butler & H. Druce, 1872, Cist. Entomol. 1(5): 114; synonym), by selection of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 85.
- = *Gorgophone* Godman & Salvin, 1894
Biol. centr.-amer., Lepid. Rhop. 2(119): 378. Type-species: *Gorgophone meliboea* Godman & Salvin, 1894, Biol. centr.-amer., Lepid. Rhop. 2(119): 378; 3(120): pl. 84, figs. 13, 14, by monotypy.

- 82. **Anastrus sempiternus** (Butler & H. Druce, 1872)
 - a. **Anastrus sempiternus sempiternus** (Butler & H. Druce, 1872)
Cist. Entomol. 1(5): 114.
Original Combination: *A[chlyodes]*. *Sempiternus*
Type Locality: "Cartago, Costa Rica" implied from the title and introduction to the paper.
Types: Holotype in BMNH.
Recorded from Texas by Bordelon and Knudson (2003), News Lepid. Soc. 45(1): 5 figs. A, B, 7.
 - = *varius* Mabille, 1883
Annls. Soc. Entomol. Belg. 27(c.r.)(31): liv-lv.
Original Combination: *Anastrus varius*
Type Locality: "Venezuela"
Types: Type(s) may be in MNHP.

Genus **Chiomara** Godman & Salvin, 1899

Biol. centr.-amer., Lepid. Rhop. 2(147): 453. Type-species: *Achlyodes mithrax* Möschler, 1879, Verh. zool.-bot. Ges. Wien 28: 225, no. 34, by original designation.

- 83. **Chiomara georgina** (Reakirt, 1868)
 - a. **Chiomara georgina georgina** (Reakirt, 1868)
Proc. Acad. Nat. Sci. Philad. 20(1/2): 88, no. 53.
Original Combination: *Pyrgus Georgina*
Type Locality: "Mexico, near Vera Cruz" [Veracruz]
Types: Type(s) apparently lost.
Reakirt described many taxa from "coll. W. H. Edwards"
Some of his types are in the Strecker collection (FMNH), and others might be in W. H. Edwards' collection (CMNH). L. Miller and F. Brown (1981), Mem. Lepid.



Soc. (2): 208, note 40, were unable to find the type(s) of this taxon. A. Warren (2000), in: Llorente *et al.*, Biodivers. Taxon. Biogeogr. Artrópod. Méx. 2: 554, and other recent authors, treated this as a species-level taxon.

84. **Chiomara mithrax** (Möschler, 1879)
Verh. zool.-bot. Ges. Wien 28: 225, no. 34.
Original Combination: *Achlyodes mithrax*
Type Locality: "Colombien"
Types: Type(s) probably in NMW.
Recorded from Arizona by Opler and A. Warren (2002), Sci. Names List Butterflies N. A.: 8.
= *noctula* (Plötz, 1884)
Jb. nassau. Ver. Naturk. 37: 15, no. 12; cited unpublished pl. 965.
Original Combination: [*Achlyodes*] *Noctula*
Type Locality: "Parà" [Brazil]
Types: Type(s) may be in ZMHB or lost.
= *gundlachi* Skinner & Ramsden, 1924
Proc. Acad. Nat. Sci. Philad. 75: 314.
Original Combination: *Cycloglypha gundlachi*
Type Locality: "Guantanamo, Cuba"
Types: Holotype (#7083) in CMNH.
‡"selma" (W. F. Kirby, 1879)
Cat. Coll. Diurn. Lepid. Hewitson: 243.
Original Combination: *Nisoniades Selma*
Type Locality: "Cayenne, Amazon, Venezuela, Rio...Bolivia...Nicaragua...Minas Geraes...Calabar...Delagoa Bay...Ega"
This name was mentioned without a description or indication; a *nomen nudum*.

Genus **Gesta** Evans, 1953

Cat. Am. Hesp. Brit. Mus. (3): 171, 200. Type-species: *Thanaos gesta* Herrich-Schäffer, 1863, Corresp-Bl. zool.-min. Ver. Regensburg 17: 142, by original designation.

85. **Gesta invisus** (Butler & H. Druce, 1872)
Cist. Entomol. 1(5): 114.
Original Combination: *T[hanaos]*. *Invisus*
Type Locality: "Cartago, Costa Rica" implied from the title and introduction to the paper.
Types: Holotype in BMNH.
Austin and A. Warren (2002), Dugesiana 9(2): 30, and other recent authors, treated *G. invisus* as a species-level taxon.
= *gorgona* (Plötz, 1884)
Jb. nassau. Ver. Naturk. 37: 15, no. 11; cited unpublished pl. 963.
Original Combination: *Achlyodes gorgona*
Type Locality: "Guatemala"
Types: Type(s) may be in ZSMC or lost.
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 148, determined this synonymy through an examination of the unpublished drawing made by Plötz.
= *llano* (Dodge, 1903)
Can. Entomol. 35(3): 78.
Original Combination: *Nisoniades llano*
Type Locality: "Llano, Texas" [Llano County]

Types: Holotype was in CAS, destroyed in the 1905 San Francisco earthquake and fire.



Genus *Ephyriades* Hübner, [1819]

Verz. bekannt. Schmett. (7): 111. Type-species: *Papilio otreus* Stoll, 1780, Uitl. Kapellen 4(28): 78, pl. 328, fig. F, (34): 252 (index) (= *Papilio philemon* Fabricius, 1775, Syst. Entomol.: 534, no. 392; synonym: a subspecies of *Papilio arcas* Drury, 1773, Ill. Nat. Hist. 1: 38, pl. 19, figs. 5, 6; 2: index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 164, no. 384.

= *Melanthes* Mabilie, 1903

In: Wytsman, Gen. Ins. (17a): 47, 80. Type-species: *Nisoniades brunnea* Herrich-Schäffer, 1865, Corresp.-Bl. zool.-min. Ver. Regensburg 18(11/12): 172, no. 3, by designation of Lindsey (1921), Bull. Labs. Nat. Hist. St. Univ. Iowa 9(4): 48.

= *Brachycoryne* Mabilie, 1883

Annls. Soc. Entomol. Belg. 27(c.r.)(31): liii (as "*Brachycorynae*"). Type-species: *Papilio flyas* Stoll, 1780, Uitl. Kapellen 4(28): 78, pl. 328, fig. E; (34): 249 (index) (= *Papilio philemon* Fabricius, 1775, Syst. Entomol.: 534, no. 392; synonym: a subspecies of *Papilio arcas* Drury, 1773, Ill. Nat. Hist. 1: 38, pl. 19, figs. 5, 6; 2: index), by monotypy. It has been considered by some (e.g., Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 80) that this name only became available when Mabilie later published it in 1904 (in: Wytsman, Gen. Ins. (17b): 47, 81); however, *Brachycoryne* Mabilie, 1883, is available from its first use (Code Article 32.5.2.7).

*86. *Ephyriades brunnea* (Herrich-Schäffer, 1865)

Corresp.-Bl. zool.-min. Ver. Regensburg 18(11/12): 172, no. 3.

Original Combination: [*Nisoniades*] *brunnea*

Type Locality: "Cuba" implied from the title of the paper and label of the syntype.

Types: Syntype (#7155) in ANSP.

Species-genus gender conformation is *brunneus*.

= *electra* (Lintner, 1881)

Can. Entomol. 13(4): 63-65.

Original Combination: *Eudamus Electra*

Type Locality: "Hamilton, Ontario"; apparently an accidental import.

Types: Holotype in CMNH.

a. *Ephyriades brunnea floridensis* E. Bell & W.

Comstock, 1948

Am. Mus. Novit. (1379): 17-18, fig. 14, ♂ genitalia.

Original Combination: *Ephyriades brunnea floridensis*

Type Locality: "Key Largo, Florida" [Monroe County]

Types: Holotype in AMNH.

Genus *Erynnis* Schrank, 1801

Fauna boic. 2(1): 152, no. 197. Type-species: *Papilio tages* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 168, by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 71.

= ‡*Thymele* [Fabricius], 1807

In: Illiger, Mag. f. Insektenk. 6: 287, no. 39. Type-species: *Papilio tages* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 168, by designation of Westwood (1840), Intro. Class. Ins. 2, Syn.: 88. I.C.Z.N. *Opinion* 232 placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 49; it is also a junior objective synonym of *Erynnis* Schrank, 1801.



- = ‡*Thymale* Oken, 1815
Lehrbuch Naturgesch. 3(Zool.)(1): 757, 758. Type-species: *Papilio tages* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 168, by designation of Hemming (1933), Entomol. 66(845): 225. This is possibly an incorrect subsequent spelling of *Thymele* [Fabricius], 1807, and is also a junior objective synonym of *Erynnis* Schrank, 1801. The original publication was placed on the list of rejected works in *Opinion 417* and this name is unavailable (Code Article 80.7.2).
- = ‡*Astycus* Hübner, 1822
Syst.-alph. Verz.: 1, 3, 5, 6, 8-10. Type-species: *Papilio tages* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 168, by designation of Hemming (1933), Entomol. 66(844): 200. A junior objective synonym of *Erynnis* Schrank, 1801.
- = ‡*Thanaos* Boisduval, [1834]
Icon. Hist. Lépid. Europ. 1(23): 240. Type-species: *Papilio tages* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 168, by designation of Blanchard (1840), *in*: Castelnau, Hist. Nat. Ins. 3: 469. This name is a junior objective synonym of *Erynnis* Schrank, 1801; it was unjustifiably emended to “Thanatos” by [Dunning & Pickard] [1859], Accentuated List Brit. Lepid.: 6.
- = ‡*Hallia* Tutt, 1906
Nat. Hist. Brit. Butterflies 1(8/9): 261. Type-species: *Thanaos marloyi* Boisduval, [1834], Icon. Hist. Lépid. Europ. 1(24): 241, pl. 47, figs. 6, 7, by original designation. Preoccupied by *Hallia* Edwards & Haime, 1850, Brit. foss. Corals (Pal. Soc. 3): lxvi.
- = *Erynnides* Burns, 1964
Univ. Calif. Publ. Entomol. 37: 24-25. Type-species: *Nisoniades propertius* Scudder & Burgess, 1870, Proc. Boston Soc. Nat. Hist. 13: 298, fig. 11, by original designation.

icelus group Burns, 1964
Univ. Calif. Publ. Entomol. 37: 27.

- 87. *Erynnis icelus* (Scudder & Burgess, 1870)**
Proc. Boston Soc. Nat. Hist. 13: 288, fig. 3 ♂ valvae; figured by Scudder (1889), Butterflies E. U. S. & Can. 2 (8): pl. 28; (9): pl. 77; (10): pl. 85; (11): pl. 9, fig. 6 ♂ D&V.
Original Combination: *Nisoniades icelus*
Type Locality: “New England” Scudder (1889), Butterflies E. U. S. & Can. 2(10): 1510-1511, mentioned several possible localities “in the White Mountain valleys and even in the subalpine region of the White Mountains in abundance...in Massachusetts...from Andover...Amherst Notch...Nantucket...vicinity of Boston...in Connecticut...New Britain”; a syntype is from “Center.” [Karner, Albany County, New York]
Types: Syntype in NYSM.
Lintner (1872), Entomol. Contr. 2: 30-31, pl. 7, figs. 5 ♂ D, 6 ♂ V, redescribed this taxon from “Center” and “Schoharie, N. Y.”
= *bautista* (Plötz, 1884)
Jb. nassau. Ver. Naturk. 37: 36, no. 2; cited unpublished pl. 1048 (as *tages*).
Original Combination: [*Nisoniades*] *Bautista*
Type Locality: “Californien”
Types: Type(s) may be in ZSMC or lost.

‡"hamamaelidis" (Scudder, 1889)
Butterflies E. U. S. & Can. 2(10): 1507.

Original Combination: *Nisoniades*

hamamaelidis Fitch manuscript

Proposed for a manuscript name of Fitch's without a description or indication; a *nomen nudum*.

88. **Erynnis brizo** (Boisduval & Le Conte, [1837])

a. **Erynnis brizo somnus** (Lintner, 1881)

Papilio 1(5): 73-74.

Original Combination: *Nisoniades Somnus*

Type Locality: "Indian River, Florida"; suggested to be "Georgiana, approximately 5 km south of the city of Merritt Island, Brevard County, Florida" by Calhoun (1993), J. Lepid. Soc. 47(1): 50.

Types: Lectotype in CMNH, designated by Calhoun (1993), J. Lepid. Soc. 47(1): 50, fig. 1 ♂ D (lectotype); figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 51, fig. 3 ♂ D (lectotype), 4 ♀ D (paralectotype).

b. **Erynnis brizo brizo** (Boisduval & Le Conte, [1837])

Hist. Lépid. Amér. sept. (23): pl. 66, figs. [1] ♂ D, [2] ♂ V, [3] ♀ D; drawings of larva and pupa suspect.

Original Combination: *Thanaos Brizo*

Type Locality: Not stated (there is no text), but "Georgia" implied from the notes for the original drawing by John Abbot. A. Clark (1936), Smithsonian Misc. Coll. 95(7): 14, suggested that the model for Abbot's figure came from the vicinity of Jacksonborough, Screven County Georgia, but Abbot spent most of his time in Burke County.

Types: The plate was a reproduction of a John Abbot drawing. The types are the specimens that he painted and are probably lost. There may be "types" in USNM or BMNH, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such Boisduval "types."

c. **Erynnis brizo burgessi** (Skinner, 1914)

Trans. Am. Entomol. Soc. 40(3): 203, fig. ♂ genitalia.

Original Combination: *Thanaos burgessi*

Type Locality: "Arizona...Mt. Graham"; holotype labeled "Mt. Graham, Arizona." [Graham County]

Types: Holotype (#7089) in CMNH; a paratype figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 51, fig. 7 ♂ D.

d. **Erynnis brizo lacustra** (W. G. Wright, 1905)

Butterflies W. Coast: 69, no. 480; 253, no. 480, pl. 32, figs. 480 ♂ D (lectotype), 480a ♂ V.

Original Combination: *Nisoniades Lacustra*

Type Locality: "Central California"; "Blue Lakes, California" [Lake County]

Types: Lectotype (#4325) in CAS, designated by Burns (1964), Univ. Calif. Publ. Entomol. 37: 58-59.

In its original description, this name was incorrectly applied to *E. pacuvius callidus* (Grinnell, 1904), a problem resolved by Burns (1964), *ibid*.

juvenalis group Burns, 1964
Univ. Calif. Publ. Entomol. 37: 27.

89. **Erynnis juvenalis** (Fabricius, 1793)

a. **Erynnis juvenalis juvenalis** (Fabricius, 1793)

Entomol. Syst. 3(1): 339-340, no. 291; cited Jones' Icones 6: pl. 78, fig. 1.

Original Combination: *H[esperia]. U[rbicola]. Juvenalis*

Type Locality: "America"

Types: Type(s) probably lost.

= *juvenis* (Hübner, [1819])

Verz. bekannt. Schmett. (7): 108, no. 1163, cited *Papilio juvenalis* J. E. Smith, 1797, in: Smith & Abbot, Ins. Georgia 1: pl. 21.

Original Combination: *Nisoniades Juvenis*

Type Locality: Not stated, but "Georgia" implied from John Abbot's figures; "Virginia" is also mentioned by Abbot in his notes for this drawing.

Types: Described, by indication, from a John Abbot drawing. The specimens upon which this drawing was based are presumed lost. The figures on plate 21 represent *Erynnis brizo* and either *Erynnis juvenalis* or *Erynnis horatius* (Calhoun pers. comm. 2006).

= *costalis* (Westwood, [1852])

In: Gen. diurn. Lepid. (2): pl. 79, fig. 3 ♂ D; (54): 519, no. 5.

Original Combination: *Nisoniades Costalis*

Type Locality: Not stated.

Types: Syntype in BMNH.

= *ennius* (Scudder & Burgess, 1870)

Proc. Boston Soc. Nat. Hist. 13: 296, fig. 9 ♂ valvae.

Original Combination: *Nisoniades Ennius*

Type Locality: "New England"

Types: Holotype (#15836) in MCZ.

= *plautus* (Scudder & Burgess, 1870)

Proc. Boston Soc. Nat. Hist. 13: 304, fig. 16 ♂ valvae.

Original Combination: *Nisoniades Plautus*

Type Locality: "Florida"

Types: Holotype (#15830) in MCZ.

b. *Erynnis juvenalis clitus* (W. H. Edwards, 1883)

Papilio 2(9/10): 180.

Original Combination: *Thanaos Clitus*

Type Locality: Not stated; subsequently listed from "Mt. Graham" by W. H. Edwards (1883), Papilio 3(3): 65; the lectotype is from this locality. [Graham County, Arizona]

Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 621, figs. 9 ♂ D&V, 10 ♂ genitalia.

W. H. Edwards described this taxon from a mixed series in his possession, but W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 124, selected a specimen from Neumoegen's collection, not seen by Edwards, as the "type." F. Brown and L. Miller determined that the true type-series was that in Edwards' own collection and acted accordingly.

= *maestus* (Godman, 1899)

Biol. centr.-amer., Lepid. Rhop. 2(148): 457; 3: pl. 91, fig. 18 ♂ D.

Original Combination: *Thanaos maestus*

Type Locality: "North America, Arizona.--Mexico, Pinal, Puebla"



- Types:** Syntypes in BMNH.
90. **Erynnis telemachus** Burns, 1960
 Wasmann J. Biol. 18(1): 148-151, figs. 1 ♂ D (holotype), 2 ♀ D, 3-4 ♂ genitalia (holotype), 6 section of D forewing.
Original Combination: *Erynnis telemachus*
Type Locality: "Hualapai Mountains, elevation 6,500 feet, 10 miles southeast of Kingman, Mohave County, Arizona"
Types: Holotype in AMNH.
91. **Erynnis propertius** (Scudder & Burgess, 1870)
 Proc. Boston Soc. Nat. Hist. 13: 298, fig. 11 ♂ valvae.
Original Combination: *Nisoniades Propertius*
Type Locality: "California"
Types: Syntypes (#15837) in MCZ; Lintner (1881), Papilio 1(5): 71, discussed the type-series, which included two specimens from "Mokiah Pass", one from "Juniper Mountains", one from "Sierra Nevada" and four from "California" Obviously, a Californian specimen should be designated lectotype.
 Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 212, included this taxon as a subspecies of *E. juvenalis* (Fabricius, 1793); Burns (1964), Univ. Calif. Publ. Entomol. 37: 94-107, subsequently detailed its species-level status.
 = *tibullus* (Scudder & Burgess, 1870)
 Proc. Boston Soc. Nat. Hist. 13: 299, fig. 12 ♂ valvae.
Original Combination: *Nisoniades Tibullus*
Type Locality: "California"
Types: Holotype (#15829) in MCZ.
92. **Erynnis meridianus** E. Bell, 1927
 a. **Erynnis meridianus meridianus** E. Bell, 1927
 J. N. Y. Entomol. Soc. 35(3): 261; ♂ genitalia figured by Lindsey *et al.* (1931), Denison Univ. Bull. 31(2), J. Sci. Lab. 26(1): pl. 25, fig. 6.
Original Combination: *Erynnis meridianus*
Type Locality: "White Mountains, Arizona"
Types: Holotype in AMNH.
93. **Erynnis scudderi** (Skinner, 1914)
 Trans. Am. Entomol. Soc. 40(3): 215, fig. ♂ genitalia.
Original Combination: *Thanaos scudderi*
Type Locality: "Fort Grant, Arizona"; suggested to be "somewhere on Mount Graham" by Burns (1964), Univ. Calif. Publ. Entomol. 37: 113. [Graham County] Scott (2008), Papilio (n.s.) 19: 29, suggests "Huachuca Mts., Ariz." because he claims this species does not occur on Mount Graham. [Cochise County]
Types: Holotype (#7088) in CMNH; a paratype figured by figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 51, fig. 9 ♂ D.
 Burns (1964), *ibid.*, discussed the type locality of this species, emphasizing that Fort Grant is a lowland locality and that the type must have come from the flanks of Mt. Graham.
94. **Erynnis horatius** (Scudder & Burgess, 1870)
 Proc. Boston Soc. Nat. Hist. 13: 301-302, fig. 13 ♂ valvae; figured by Scudder (1889), Butterflies E. U. S. & Can. 2(11): pl. 9, figs. 7 ♀ D, 10 ♂ D&V.
Original Combination: *Nisoniades Horatius*
Type Locality: "Massachusetts...New England, Texas"
Types: Syntype (#15832) in MCZ.



- = *virgilius* (Scudder & Burgess, 1870)
Proc. Boston Soc. Nat. Hist. 13: 302, fig. 14 ♂ valvae.
Original Combination: *Nisoniades Virgilius*
Type Locality: "New England"
Types: Type(s) may be in MCZ.
- = *petronius* (Lintner, 1881)
Papilio 1(5): 70-71.
Original Combination: *Nisoniades Petronius*
Type Locality: "Indian River, Florida" [Brevard County]
Types: Syntypes (#6248, 6249) in NYSM.
This name was listed as "*Nisoniades petronius*", but not described, by Mead (1875), Rep. Coll. diurn. Lepid. 5(Zool.): 786; a *nomen nudum*.

95. **Erynnis tristis** (Boisduval, 1852)
- a. **Erynnis tristis tristis** (Boisduval, 1852)
Annls. Soc. Entomol. Fr. (2)10: 311; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, fig. 2081 ♂ D&V (lectotype).
Original Combination: *Thanaos tristis*
Type Locality: "Californie" implied from the title of the paper; suggested to be "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 20.
Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 20, figs. 120 ♂ D, 121 ♂ V.
- b. **Erynnis tristis tatus** (W. H. Edwards, 1883)
Papilio 2(9/10): 179-180.
Original Combination: *Thanaos Tatus*
Type Locality: Not stated; subsequently listed from "Mt. Graham" by W. H. Edwards (1883), Papilio 3(3): 65. [Graham County, Arizona]
Types: Holotype (#33630) in USNM, figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 75, figs. 15 ♂ D, 16 ♂ V, and F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): figs. 11 ♂ D&V, 12 ♂ genitalia.
- = *albomarginatus* (Godman, 1899)
Biol. centr.-amer., Lepid. Rhop. 2(148): 458, no. 5; 3(148): pl. 91, figs. 19 ♂ D, 20 ♂ V, 21 ♂ genitalia, 22 ♀ D, 23 ♀ V.
Original Combination: *Thanaos albomarginatus*
Type Locality: "Mexico, Cordova...Guatemala, Chisoy Valley...San Gerónimo...Costa Rica...Irazu...Panama, Chiriqui...Volcan de Chiriqui...Colombia"
Types: Syntypes in BMNH.

zarucco group Burns, 1964
Univ. Calif. Publ. Entomol. 37: 28.

96. **Erynnis martialis** (Scudder, [1870])
Trans. Chicago Acad. Sci. 1(2): 335, no. 35.
Original Combination: *Nisoniades Martialis*
Type Locality: "New Jefferson...open prairie...lower half of Dallas county"; on page 328 Scudder stated "New Jefferson may be anywhere along a devious, hundred-mile route beginning at Denison, including Wall Lake and Grant City, and terminating at New Jefferson." [Iowa]
Types: Syntype (#15834) in MCZ.



- = *ausonius* (Lintner, 1872)
Entomol. Contr. 2: 34-35, pl. 7, figs. 11 ♂ D, 12 ♂ V.
Original Combination: *Nisoniades Ausonius*
Type Locality: "Center" [Karner, Albany County, New York]
Types: Holotype (#3256) in NYSM; ♂ genitalia figured by Cook (1905), J. N. Y. Entomol. Soc. 14(3): pl. 2, fig. 2.
‡"quercus" (Butler, 1870)
Entomol. Mon. Mag. 7(77): 97.
Original Combination: [*Thanaos*] *quercûs*
This name was mentioned in the synonymy of *martialis* without a description or indication; a *nomen nudum*.
- 97. **Erynnis pacuvius** (Lintner, 1878)
 - a. **Erynnis pacuvius pacuvius** (Lintner, 1878)
Entomol. Contr. 4: 60-61.
Original Combination: *Nisoniades Pacuvius*
Type Locality: "New Mexico"
Types: Holotype (#5200) in NYSM.
W. H. Edwards (1877), Trans. Am. Entomol. Soc. 6(1): 57, no. 485, listed *Thanaos pacuvius* in reference to a Lintner publication. There was no prior description of *pacuvius* by Lintner and this is a *nomen nudum*.
 - b. **Erynnis pacuvius lilius** (Dyar, 1904)
Proc. U. S. Nat. Mus. 27(1376): 788.
Original Combination: *Thanaos lilius*
Type Locality: "Kaslo, British Columbia" inferred from text; holotype from "Kaslo, elevation 1,670 feet, Kootenai District, British Columbia", as noted by Burns (1964), Univ. Calif. Publ. Entomol. 37: 159.
Types: Holotype (#7333) in USNM.
 - c. **Erynnis pacuvius pernigra** (F. Grinnell, 1905)
Entomol. News 16(2): 34-35.
Original Combination: *Thanaos pernigra*
Type Locality: "Mt. Tamalpais, Marin Co., California...in Mill Valley, on the slopes of Mt. Tamalpais"
Types: Holotype in AMNH.
Species-genus gender conformation is *perniger*.
 - d. **Erynnis pacuvius callidus** (F. Grinnell, 1904)
Entomol. News 15(4): 114-115, figs. 1 valve, 2 uncus, 3 penis.
Original Combination: *Thanaos callidus*
Type Locality: "Mt. Wilson, Sierra Madre Mountains, Los Angeles County, California. Altitude, 5886 feet" [San Gabriel Mtns.]
Types: Lectotype in AMNH, designated by dos Passos (1947), Am. Mus. Novit. (1337): 1.
- 98. **Erynnis zarucco** (Lucas, 1857)
In: Sagra, Hist. Cuba 7(2): 641-642.
Original Combination: *Thanaos Zarucco*
Type Locality: "habite l'île de Cuba"
Types: Type(s) probably in MNHP.
= *diogenes* (Plötz, 1884)
Jb. nassau. Ver. Naturk. 37: 34, no. 62; cited unpublished pl. 1041.
Original Combination: [*Antigonus*] *Diogenes*
Type Locality: "Cuba"
Types: Type(s) may be in ZSMC or lost.



- = *terentius* (Scudder & Burgess, 1870)
Proc. Boston Soc. Nat. Hist. 13: 292, fig. 6 ♂ valvae;
figured by Scudder (1889), Butterflies E. U. S. & Can.
2(11): pl. 9, fig. 15 ♀ D&V.
Original Combination: *Nisoniades Terentius*
Type Locality: "Florida"
Types: Syntype (#15833) in MCZ.
Scott (1998), Papilio (n.s.) 11: 8, made a first reviser
choice of *terentius* over *ovidius* (below). Furthermore, he
suggested that *terentius* be regarded as a mainland
subspecies of *zarucco*. A more substantial analysis is
needed. This synonymy follows Mielke (2005), Cat.
Amer. Hesp. 3: 551-553.
- = *ovidius* (Scudder & Burgess, 1870)
Proc. Boston Soc. Nat. Hist. 13: 295, fig. 8 ♂ valvae.
Original Combination: *Nisoniades Ovidius*
Type Locality: "Florida"
Types: Type(s) may be in MCZ.
- = *naevius* (Lintner, 1881)
Papilio 1(5): 69.
Original Combination: *Nisoniades Naevius*
Type Locality: "Indian River, Florida" [Brevard County]
Types: Syntypes (#7771, 6247) in NYSM.

99. **Erynnis funeralis** (Scudder & Burgess, 1870)
Proc. Boston Soc. Nat. Hist. 13: 293, fig. 7 ♂ valvae.
Original Combination: *Nisoniades funeralis*
Type Locality: "This Texan species"
Types: Syntype (#15831) in MCZ.
Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 209, followed by
Scott (1981), J. Res. Lepid. 20(1): 60, and (1986), Butterflies
N. Am.: 492, no. 656, considered this taxon to be a
subspecies of *zarucco* (Lucas, 1857); the arrangement
employed by Mielke (2005), Cat. Amer. Hesp. 3: 526-528, is
followed here.
- = *clericalis* Burmeister, 1875
Revue Mag. Zool. (3)3: 60-61, 64, pl. 1, figs. 3 larva, 7
pupa, 10 larval head capsule (not 5).
Original Combination: *Phlebodes clericalis*
Type Locality: "Cordova" [Córdoba, Argentina]
Types: Syntype in MACN.
 - = *australis* (Mabille, 1883)
Annls. Soc. Entomol. Belg. 27(c.r.)(31): liv.
Original Combination: *Nisoniades australis*
Type Locality: "E Colombia"
Types: Type(s) may be in MNHP.

persius group Burns, 1964
Univ. Calif. Publ. Entomol. 37: 28.

100. **Erynnis baptisiae** (W. Forbes, 1936)
Psyche 43(4): 111-112, fig. 2 ♂ genitalia, valvae.
Original Combination: *Thanaos baptisiae*
Type Locality: "Woods Hole, Mass." [Barnstable County,
Massachusetts]
Types: Holotype (#1391) in CUIC.
101. **Erynnis lucilius** (Scudder & Burgess, 1870)
Proc. Boston Soc. Nat. Hist. 13: 287, fig. 2 ♂ valve; figured
by Scudder (1889), Butterflies E. U. S. & Can. 2 (9): pl. 36,
figs. 4, 5, 6; (11): pl. 9, fig. 4 ♂ D&V.
Original Combination: *Nisoniades Lucilius*

- Type Locality:** "New England"
Types: Syntype (#2966) in NYSM.
 Lintner (1872), Entomol. Contr. 2: 32-35, pl. 7, figs. 1 ♀ D, 2 ♂ V, subsequently redescribed this species from "Schoharie...Bethlehem" [New York]
102. **Erynnis afranius** (Lintner, 1878)
 Entomol. Contr. 4: 63-64.
Original Combination: *Nisoniades Afranius*
Type Locality: "Colorado"
Types: Holotype in CMNH.
103. **Erynnis persius** (Scudder, 1863)
 Forbes (1936), Psyche 43(4): 104-113, demonstrated that Scudder confused this species and *baptisiae*, both in biological and morphological details. L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 21, note 60, claimed to follow Burns (1964), Univ. Calif. Publ. Entomol. 37: 191-194, in their application of names to this complex. Burns, however, advised against using subspecies for *E. persius* until the group could be studied in more detail. Austin (1981), J. Res. Lepid. 19(4): 242, concurred. The situation remains unclear and subspecies are employed following L. Miller and F. Brown (1981), *ibid.*, and Ferris (1989), Mem. Lepid. Soc. (3): 69.
- a. **Erynnis persius persius** (Scudder, 1863)
 Proc. Essex Inst. 3: 170, no. 58; figured by Scudder (1889), Butterflies E. U. S. & Can. 2(11): pl. 9, fig. 1 ♂ D&V; (9): pl. 36, figs. 1, 2, 3, but some of these figures might represent *baptisiae*; ♂ valvae figured by Scudder & Burgess (1870), Proc. Boston Soc. Nat. Hist. 13: fig. 1.
Original Combination: *Nisoniades Persius*
Type Locality: Not specifically stated; "New England" implied from the title of the paper. The "type" is from "Mass" according to W. Forbes (1936), Psyche 43(4): fig. 5. Scudder (1889), Butterflies E. U. S. & Can. 2(10): 1472, mentioned "the White Mountains" as one locality where this species was collected.
Types: Syntype (#15835) in MCZ.
- b. **Erynnis persius borealis** (M. Cary, 1906)
 Proc. U. S. Nat. Mus. 31(1488): 455.
Original Combination: *Thanaos propertius* var. *borealis*
Type Locality: "mouth North Nahanni River, Mackenzie" [Nunavut]
Types: Holotype (#9869) in USNM.
- c. **Erynnis persius avinoffi** (W. Holland, 1930)
 Ann. Carnegie Mus. 19(3): 156-157; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 51, figs. 28 ♂ D (holotype), 29 ♀ D (paratype).
Original Combination: *Thanaos avinoffi*
Type Locality: "various points in the Yukon Valley, the valley of the Kuskokwim, and various other points in Alaska"
Types: Holotype in CMNH.
- d. **Erynnis persius fredericki** H. Freeman, 1943
 Entomol. News 54(3): 74.
Original Combination: *Erynnis persius fredericki*
Type Locality: "near Lead, Spearfish Canyon...South Dakota" [Lawrence County]
Types: Holotype in AMNH.



‡"rutilius" Mead, 1875

Rep. Coll. diurn. Lepid. 5(Zool.): 787.

Original Combination: *Thanaos*

Rutilius Scudder, manuscript

Type Locality: "Turkey Creek Junction"

[Jefferson County, Colorado]

This name was listed without a description or indication; a *nomen nudum*.

Tribe **Achlyodidini** Burmeister, 1878

Descr. phys. Rép. Argentine 5(Lép.)(1): 245, 254 (as "Achlyodidae"). Type-genus: *Achlyodes* Hübner, [1819], Verz. bekannt. Schmett. (7): 108.

Genus **Achlyodes** Hübner, [1819]

Verz. bekannt. Schmett. (7): 107-108. Type-species: *Papilio busirus* Cramer, 1779, Uitl. Kapellen 3(22): 119-120, pl. 261, figs. A, B, C; 3(24): 174 (index), by designation of Butler (1870), Entomol. Mon. Mag. 7(77): 98.

= ‡*Sebaldia* Mabille, 1903

In: Wytzman, Gen. Ins. (17a): 77. Type-species: *Papilio busirus* Cramer, 1779, Uitl. Kapellen 3(22): 119-120, pl. 261, figs. A, B, C; (24): 174 (index), by monotypy. A junior objective synonym of *Achlyodes* Hübner, [1819].

104. **Achlyodes pallida** (R. Felder, 1869)

Verh. zool.-bot. Ges. Wien. 19: 478-479, no. 38.

Original Combination: *Helias pallida*

Type Locality: "Jalapa, Potrero" [Veracruz, Mexico]

Types: Syntype(s) in BMNH.

Recorded from Texas by A. Warren *et al.* (2003), News Lepid. Soc. 45(4):128-131, figs. 1-6.

= *ozotes* Butler, 1870

Trans. Entomol. Soc. Lond. (4)18(4): 515, no. 3.

Original Combination: *Achlyodes Ozotes*

Type Locality: "Venezuela", "Venezuela, Bogota, Bolivia"

Types: Syntype(s) in BMNH.

= *selva* Evans, 1953

Cat. Am. Hesp. Brit. Mus. (3): 178.

Original Combination: [*Achlyodes*] *selva*

Type Locality: "Jalapa, Mexico" [Veracruz]

Types: Holotype in BMNH.

Austin and A. Warren (2002), Dugesiana 9(2): 26, determined this synonymy.

Genus **Eantis** Boisduval, 1836

Spec. gén. Lépid. 1: pl. 13 [=9B], fig. 6. Type-species: *Urbanus thraso* Hübner, [1807], Samml. exot. Schmett. 1: pl. [151], figs. 1-4, by monotypy. A. Warren (1996), Phylog. Rev.

Skippers *mithridates* Spec. Group: 188 pp. and (2000), in: Llorente *et al.*, Biodivers. Taxon. Biogeogr. Artrópod. Méx. 2: 553, placed our species in *Eantis*.

105. **Eantis tamenund** (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 205, 215-216, no. 20.

Original Combination: *Hesperia Tamenund*

Type Locality: "near Waco, Texas"; suggested to be "probably close to Norse, Bosque County, Texas" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 615.

Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 617, fig. 8 ♂ D&V.



Tribe **Pyrgini** Burmeister, 1878

Genus **Carrhenes** Godman & Salvin, 1895

Biol. centr.-amer., Lepid. Rhop. 2(121): 388. Type-species: *Leucochitonea fuscescens* Mabille, 1891, Anns. Soc. Entomol. Belg. 35(c.r.)(16): lxii, by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 81.

106. **Carrhenes canescens** (R. Felder, 1869)
a. **Carrhenes canescens canescens** (R. Felder, 1869)
Verh. zool.-bot. Ges. Wien 19: 476-477, no. 34.
Original Combination: *Leucochitonea canescens*
Type Locality: "Potrero" [Veracruz, Mexico]
Types: Type(s) may be in NMW.

Genus **Xenophanes** Godman & Salvin, 1895

Biol. centr.-amer., Lepid. Rhop. 2(121): 387. Type-species: *Papilio tryxus* Stoll, 1780, Uitl. Kapellen 4(28): 87, pl. 334, figs. G, H, by original designation.

107. **Xenophanes tryxus** (Stoll, 1780)
Uitl. Kapellen 4(28): 87, pl. 334, figs. G, H (as *tryxus*); (34): 252 (index, as *trixus*).
Original Combination: *Pap[ilio]. Pleb[ejus]. Urbico[a]. Tryxus*
Type Locality: "Surinamen" "Suriname"
Types: Type(s) probably lost.
= *salvianus* (Fabricius, 1793)
Entomol. Syst. 3(1): 348-349, no. 325; cited Jones' Icones 6: pl. 94, fig. 4 D&V; figured by Donovan (1800), Epit. Ins. India: pl. [50], fig. 2 (a copy from Jones' Icones).
Original Combination: *H[esperia]. U[rbicola]. Salvianus*
Type Locality: "Indiis"
Types: Type(s) probably lost.
= *ruatanensis* Godman & Salvin, 1895
Biol. centr.-amer., Lepid. Rhop. 2(121): 388, no. 2.
Original Combination: *Xenophanes ruatanensis*
Type Locality: "Honduras, Ruatan I."
Types: Syntypes in BMNH.
= *euphemie* (Ehrmann, 1907)
Can. Entomol. 39(9): 318.
Original Combination: *Leucochitonea euphemie*
Type Locality: "Suapure, Venezuela"
Types: Holotype in CMNH.
= *perplexus* E. Bell, 1942
An. Esc. Nac. Cienc. Biol. Méx. 2(4): 456-457, no. 5, fig. 1 ♂ genitalia.
Original Combination: *Xenophanes perplexus*
Type Locality: "Guerrero" [Mexico]
Types: Holotype in AMNH; the description erroneously stated that the holotype (#4772) is in ENCB.

Genus **Antigonus** Hübner, [1819]

Verz. bekannt. Schmett. (7): 108. Type-species: *Urbanus erosus* Hübner, [1812], Samml. exot. Schmett. 1: pl [153], figs. 1, 2, 3, 4, by monotypy.

- = *Chaetoneura* C. Felder & R. Felder, 1862
Wien. Entomol. Montaschr. 6(6): 185-186. Type-species: *Chaetocneme hippulus* C. Felder & R. Felder, 1862, Wien. Entomol. Montaschr. 6(6): 186, no. 172 (= *Hesperia nearchus* Latreille, [1813], in: Humboldt and Bonpland, Voy. Rég. Équinox., Part 2 (Observ. Zool.) 2(10): 135, pl. 43, figs. 3, 4; synonym), by original designation.
- = *Systaspes* Weeks, 1901
Ill. diurn. Lepid. 1: 20, 29, 116. Type-species: *Antigonus corrosus* Mabille, 1878, Petites Nouv. Entomol. 2(188): 198, no. 23, by monotypy.

- 108. *Antigonus emorsa*** (R. Felder, 1869)
Verh. zool.-bot. Ges. Wien 19: 479- 480.
Original Combination: *Leucochitonea emorsa*
Type Locality: "von der Hauptstadt Mexico in der Nähe von Cuernavaca" [Morelos, Mexico]
Types: Holotype probably in NMW.
Species-genus gender conformation is *emorsus*.
- = *albimedia* (Draudt, 1922)
In: Seitz, Grossschmett. Erde 5(321): 904; (329): pl. 176f, fig. [7] ♂ D.
Original Combination: [*Systasea emorsa*]
form *albimedia*
Type Locality: "Mexiko"; lectotype from "Guerrero."
Types: Lectotype (#L 4051) in SMF, designated by Mielke and Schroeder (1994), Senckenberg. biol. 73(1/2): 139, fig. 9, ♂ genitalia.
- 109. *Antigonus erosus*** (Hübner, [1812])
Samml. exot. Schmett. 1: pl [153], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Urbanus Erosus*
Type Locality: Not stated.
Types: Types probably lost.
Recorded from Texas by Knudson *et al.* (2004), News Lepid. Soc. 46(4): 111, 113, 6 figs.
- = *westermann* (Latreille, [1824])
Enc. méth., 9(Ins.)(2): (725), 791, no. 153.
Original Combination: *Hesperia Westermann*
Type Locality: "l'Amérique méridionale"
Types: Types may be in MNHP or BMNH.

Genus *Systasea* W. H. Edwards, 1877

Can. Entomol. 9(6): 120. Type-species: *Hesperia zampa* W. H. Edwards, 1876, Trans. Am. Entomol. Soc. 5(3/4): 207-208, as replacement name for the genus *Lintneria* Auctorum. Because there was misunderstanding over the original description of *Lintneria*, this name was proposed to replace a "ghost." According to Code Article 67.8, the type-species of *Systasea* is *Papilio daunus* Cramer, 1777, Uitl. Kapellen 2(11): 44, pl. 126, fig. F; (16): 148 (index) (see *Thorybes bathyllus*); this issue needs to be addressed by the I.C.Z.N. in a petition to assign *Hesperia zampa* W. H. Edwards, 1876 as the type-species of *Systasea*. For now, traditional usage is maintained.

- = ‡*Lintneria* W. H. Edwards, 1877
Trans. Am. Entomol. Soc. 6(1): 57. Type-species: *Hesperia zampa* W. H. Edwards, 1876, Trans. Am. Entomol. Soc. 5(3/4): 207-208, by monotypy. Preoccupied by *Lintneria* Butler, 1876, Trans. Zool. Soc. Lond. 9: 620.
- = ‡*Plesiocera* Mabille, 1891



Annls. Soc. Entomol. Belg. 35(c.r.)(17): cvi. Type-species: *Plesiocera filipalpis* Mabille, 1891, Annls. Soc. Entomol. Belg. 35(c.r.)(17): cvi (= *Leucochitonea pulverulenta* R. Felder, 1869, Verh. zool.-bot. Ges. Wien 19: 478; synonym), by monotypy. Preoccupied by *Plesiocera* Macquart, 1841, Mém. Soc. R. Sci. Lille 1840: 360. The generic and specific diagnoses of *Plesiocera filipalpis* were based on the body of *S. pulverulenta* with a glued-on satyrine head.

- 110. *Systasea pulverulenta*** (R. Felder, 1869)
Verh. zool.-bot. Ges. Wien. 19: 478, no. 37.
Original Combination: *Leucochitonea pulverulenta*
Type Locality: "Orizaba" [Veracruz, Mexico]
Types: Syntypes in NMW.
= *taeniatus* (Plötz, 1884)
Jb. nassau. Ver. Naturk. 37: 41, no. 2; cited unpublished pl. 1068.
Original Combination: [*Tagiades*] *Taeniatus*
Type Locality: "Oaxaca" [Mexico]
Types: Type(s) may be in ZSMC.
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 149, determined this synonymy through an examination of the unpublished drawing made by Plötz.
= *filipalpis* (Mabille, 1891)
Annls. Soc. Entomol. Belg. 35(c.r.)(17): cvi.
Original Combination: *Plesiocera filipalpis*
Type Locality: Not stated.
Types: Holotype in BMNH.
As noted above, the specific diagnosis was based on the body of this species with a glued-on satyrine head.
- 111. *Systasea zampa*** (W. H. Edwards, 1876)
Trans. Am. Entomol. Soc. 5(3/4): 207-208.
Original Combination: *Hesperia Zampa*
Type Locality: "South Apache, Arizona"; corrected to "South [of Fort] Apache, Navajo County Arizona" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 613; neotype from "Arizona."
Types: Neotype in CMNH, designated by L. Miller (1970), Ann. Carnegie Mus. 41(5): 183-184, figs. 4 ♂ D, 5 ♂ V, 6 ♂ genitalia; figured by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): fig. 7 ♂ D&V.
The misapplication of the name *zampa* was explained in the neotype designation, and by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 613-615.
= *evansi* (E. Bell, 1941)
Entomol. News 52(6): 165-167, fig. 2 ♂ genitalia.
Original Combination: *Antigonus evansi*
Type Locality: "Baboquivari Mountains, Arizona" [Pima County]
Types: Holotype in AMNH.

Genus **Celotes** Godman & Salvin, 1899

Biol. centr.-amer., Lepid. Rhop. 2(147): 452. Type-species: *Pholisora nessus* W. H. Edwards, 1877, Can. Entomol. 9(6): 192, by monotypy.

- 112. *Celotes nessus*** (W. H. Edwards, 1877)
Can. Entomol. 9(10): 192.

Original Combination: *Pholisora nessus*

Type Locality: "San Antonio, Texas" [Bexar County]

Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 640, fig. 21♂ D&V.

= *notabilis* (Strecker, [1878])
Lepid. Rhop. Het. (14): 131.

Original Combination: *Spilothyris Notabilis*

Type Locality: Not specifically stated; "vicinity of New Braunfels and San Antonio, Southwestern Texas" implied from the introductory text. [Comal and Bexar counties]

Types: Syntypes in FMNH.

= *radiatus* (Plötz, 1884)
Mitt. naturw. Ver. Neu-Vorpomm. 15: 23, no. 1, cited unpublished pl. 907.

Original Combination: [*Carcharodus*] *Radiatus*

Type Locality: "Texas"

Types: Type(s) may be in ZSMC or lost.
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 147, determined this synonymy through an examination of the unpublished drawing made by Plötz.

113. Celotes limpia Burns, 1974

Psyche 81(1): 51-55, figs. 1E ♂ D, 1F ♂ V (holotype), 1G ♀ D, 1H ♀ V, 2B ♂ metathoracic pouch, 4 ♂ genitalia, 6 ♀ genitalia, 8 distribution map.

Original Combination: *Celotes limpia*

Type Locality: "Limpia Canyon, 5000 feet, Davis Mountains., 4 miles WNW of Fort Davis, Jeff Davis County, Texas"

Types: Holotype in MCZ.

Genus Pyrgus Hübner, [1819]

Verz. bekannt. Schmett. (7): 109. Type-species: *Papilio alveolus* Hübner, [1803], Samml. europ. Schmett. 1: pl. 92, figs. 466, 467 (= *Papilio malvae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 167; synonym), by designation of Westwood [1841], in: Brit. Butterflies Transf. (ed. 1): 123. I.C.Z.N. *Opinion* 278 placed this name on the *Official List of Generic Names in Zoology* as name no. 706. As a result of the erroneous type-species designation of *Hesperia* Fabricius, 1793, by Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 187-189, most of what is now known as *Pyrgus* was previously called *Hesperia*. The action of Plötz (1879), Stettiner Entomol. Ztg. 40(4-6): 179, of citing *malvae* as the type-species of *Carcharodus* Hübner, [1819], Verz. bekannt. Schmett. (7): 110, further confused the issue surrounding the identity of *Pyrgus*. The situation was explained by Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 94-95. *Carcharodus* does not occur in the Nearctic.

= ‡*Urbanus* Hübner, [1806]
Tentamen: [1]. Type-species: *Papilio malvae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 167, by monotypy. The Tentamen was suppressed by I.C.Z.N. *Opinion* 97. *Opinion* 278 placed *Urbanus* Hübner [1806] on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 86.

= *Syrichtus* Boisduval, [1834]
Icon. Hist. Lépid. Europ. 1(23): 230. Type-species: *Papilio malvae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 167, by designation of Blanchard (1845), Hist. Ins. 2: 348.

= *Scelotrix* Rambur, 1858
Cat. Syst. Lépid. Andal.: 63. Type-species: *Papilio carthami* Hübner, [1813], Samml. europ. Schmett. 1: pl. 143, figs. 726 [actually 720], 723 [not figs. 721-722] (= *Papilio*

- fritillarius* Poda, 1761, Ins. Mus. graec.: 79, no. 53, as defined by the specimen on pl. 10, fig. 7; synonym), by designation of E. Watson (1893), Proc. Zool. Soc. Lond. 1893(1): 64.
- = ‡*Bremeria* Tutt, 1906
Nat. Hist. Brit. Butterflies 1(10/11): 296. Type-species: *Syrichtus bieti* Oberthür, 1886, Étud. Entomol. 11: 26, pl. 6, fig. 50, by designation of Lindsey (1921), Bull. Labs. Nat. Hist. St. Univ. Iowa 9(4): 37. Preoccupied by *Bremeria* Alpheraky, 1892, in: Romanoff, Mém. Lépid. 6: 7, and *Bremeria* Moore, 1896, Lepid. Ind. 3(25): 9.
- = ‡*Teleomorpha* B. Warren, 1926
Trans. Entomol. Soc. Lond. 74(1): 18, 46, pl. 10, fig. 7. Type-species: *Papilio carthami* Hübner, [1813], Samml. europ. Schmett.: pl. 143, figs. 726 [actually 720] ♂, 723 ♂ [not figs. 721-722] (= *Papilio fritillarius* Poda, 1761, Ins. Mus. graec.: 79, as defined by the specimen on pl. 10, fig. 7), by designation of Hemming (1934), Stylops 3(6): 143. A junior objective synonym of *Scelotrix* Rambur, 1858.
- = ‡*Hemiteleomorpha* B. Warren, 1926
Trans. Entomol. Soc. Lond. 74(1): 19, 72. Type-species: *Papilio malvae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 167, by designation of Hemming (1934), Stylops, 3(6): 143. A junior objective synonym of *Syrichtus* Boisduval, [1834].
- = *Ateleomorpha* B. Warren, 1926
Trans. Entomol. Soc. Lond. 74(1): 19, 87. Type-species: *Hesperia onopordi* Rambur, [1842], Faune Entomol. Andal. 2(6): 319, pl. 8, fig. 13, by designation of Hemming (1934), Stylops 3(6): 143.
- *114. *Pyrgus centaureae* (Rambur, [1842])**
Faune Entomol. Andal. 2(6): 315-316, pl. 8, fig. 10.
Original Combination: *Hesperia Centaureae*
Type Locality: "Torneo en Laponie et de la Dalécarlie" [Dalarna, Sweden]
Types: Type(s) may be in MNHP, BMNH, or lost.
de Jong (1972), Tijdschr. Entomol. 115(1): 27, included this species in the subgenus *Scelotrix*.
- a. *Pyrgus centaureae wyandot* (W. H. Edwards, 1863)**
Proc. Entomol. Soc. Philad. 2(1): 14, 21-22, no. 13; [2]: pl. 5, fig. 4 ♂ D&V.
Original Combination: *Hesperia Wyandot*
Type Locality: "Long Island...Washington, D. C."; neotype from "Long Island, New York."
Types: Neotype (possibly a lectotype) in FMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 632, fig. ♂ D&V.
Shapiro (1974), Search 4(3): 23, suggested that this taxon might be a distinct species, a status that Lindsey (1928), Entomol. News 39: 239-242, disputed. More research is needed; see Opler and A. Warren (2002), Sci. Names List Butterflies N. A.: 8-9.
- b. *Pyrgus centaureae freija* (B. Warren, 1924)**
Trans. Entomol. Soc. Lond. 72(Proc.): lvi-lvii, pl. B, figs. 1 ♂ D, 2 ♀ V (lectotype), 3 ♂ D, 4 ♀ V, 5 ♂ V.
Original Combination: *Hesperia freija*
Type Locality: "Colorado at an altitude of 13,000 ft.; Labrador and other parts of N. America; and in the

extreme North of Europe"; lectotype from "Labrador" [Newfoundland and Labrador]

Types: Lectotype in MHNG (Reverdin collection) designated by B. Warren (1951), Entomol. 84(1061): 217; figured by B. Warren (1926), Trans. Entomol. Soc. Lond. 74(1): pl. 14, figs. 3 ♂ D, 4 ♂ V, pl. 15, fig. 2 ♂ genitalia.

This taxon was further discussed by B. Warren (1935), Trans. R. Entomol. Soc. Lond. 83(1): 127-129, pl. 7, W. Forbes (1960), Mem. Cornell Univ. Agric. Exp. Sta. 371 (part 4): 67-68, and de Jong (1972), Tijdschr. Entomol. 115(1): 57.

= ‡"fasciata" (B. Warren, 1926)

Trans. Entomol. Soc. Lond. 74(1): 51.

Original Combination: [*Hesperia freija*]

ab. *fasciata*

Type Locality: Not stated.

Types: Syntype in BMNH.

‡"reducta" Evans, 1942

Revta. Entomol. (Rio de Janeiro) 13(3): 364.

Original Combination: *Pyrgus reducta*

This name was listed as a synonym of *Pyrgus centaureae* without a description or indication; a *nomen nudum*.

c. *Pyrgus centaureae loki* Evans, 1953

Cat. Am. Hesp. Brit. Mus. (3): 214.

Original Combination: [*Pyrgus centaureae*] *loki*

Type Locality: "Long [sic!] Peak Trail, Colorado: above timberline" [Long's Peak, Larimer County]

Types: Holotype in BMNH.

115. *Pyrgus ruralis* (Boisduval, 1852)

a. *Pyrgus ruralis ruralis* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10: 311-312, no. 68; figured by Oberthür (1912), Étud. Lépid. Comp. 6: pl. 137, fig. 1212 ♀ D&V (lectotype).

Original Combination: *Syrichtus ruralis*

Type Locality: "Californie" implied from the title of the paper; defined as "Tuolumne Co., Calif." by Scott (1981), Papilio (n.s.) 1: 7; corrected to "Hwy. 70 at Murphy Creek, 2.5 road miles SW of Belden, North Fork Feather River Canyon, 1800' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 20.

Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 20, figs. 123 ♀ D, 124 ♀ V.

= *caespitatis* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 312, no. 69; figured by Oberthür (1912), Étud. Lépid. Comp. 6: pl. 137, figs. 1204 ♂ D&V (lectotype), 1205 ♂ D&V.

Original Combination: *Syrichtus caespitatis*

Type Locality: "Californie" implied from the title of the paper; defined as "Marin Co., Calif." by Scott (1981), Papilio (n.s.) 1: 7; corrected to "Hwy. 70 at Murphy Creek, 2.5 road miles SW of Belden, North Fork Feather River Canyon, 1800' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 20.

- Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 20, figs. 126 ♂ D, 127 ♂ V.
- = *ricara* (W. H. Edwards, 1865)
Proc. Entomol. Soc. Philad. 4(1): 201, 203, no. 6, pl. 1, fig. 2 ♂ D&V.
- Original Combination:** *Hesperia Ricara*
Type Locality: "Empire City, Colorado Territory"; defined as "vicinity of the former site of Empire City, Clear Creek County, Colorado" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 626.
- Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 626-628, fig. 15 ♂ D&V.
- = *petreius* (W. H. Edwards, 1870)
Trans. Am. Entomol. Soc. 3(2): 189, 195, no. 12.
- Original Combination:** *Syrichtus Petreius*
Type Locality: "Nevada"; defined as "Little Valley, Washoe County, Nevada" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 628, 630; neotype from "Neva."
- Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 630, fig. 16 ♂ D&V.
- b. **Pyrgus ruralis lagunae** Scott, 1981
Papilio (n.s.) 1: 7, figured by Scott (1975), J. Lepid. Soc. 29(4): fig. 3 ♂ D.
Original Combination: *Pyrgus ruralis lagunae*
Type Locality: "N. end, E Laguna...Laguna Mts., San Diego Co., Calif."
Types: Holotype in LACM.
116. **Pyrgus xanthus** W. H. Edwards, 1878
Field & Forest 3(9): 142-143.
Original Combination: *Pyrgus Xanthus*
Type Locality: "Southern Colorado"; defined as "Rosita, Custer County, Colorado" by Scott (1975), J. Lepid. Soc. 29(4): 217.
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 626, fig. 14 ♂ D&V; paralectotype figured by W. Holland (1898), Butterfly Book: pl. 47, fig. 15 ♂ D.
= *macdunnoughi* (Oberthür, 1914)
Étud. Lépid. Comp. 9(2): 86, pl. 264, fig. 2205 ♂ D&V.
Original Combination: [*Syrichtus*] *Mac Dunnoughi*
Type Locality: "Arizona"
Types: Holotype in BMNH.
117. **Pyrgus scriptura** (Boisduval, 1852)
a. **Pyrgus scriptura scriptura** (Boisduval, 1852)
Annls. Soc. Entomol. Fr. (2)10(2): 312, no. 70; figured by Oberthür (1912), Éstud. Lépid. Comp. 6: pl. 137, fig. 1206 ♂ D&V (holotype).
Original Combination: *Syrichtus scriptura*
Type Locality: "Californie" implied from the title of paper; further refined as "Dans les lieux arides", by Boisduval (1868), Annls. Soc. Entomol. Belg. 12: 23, no. 71; defined as "Sacramento, Sacramento County, California", by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 20.

Types: Holotype in BMNH, figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 20, figs. 129 ♂ D, 130 ♂ V.

‡"pseudoxanthus" Scott, 1986
Butterflies N. Am.: 495, no. 664.

Original Combination: [*Pyrgus scriptura*]
form *pseudoxanthus*
Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

- b. *Pyrgus scriptura apertorum*** Austin, 1998
Syst. W. N. Am. Butterflies (43): 524, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.
Original Combination: *Pyrgus scriptura apertorum*
Type Locality: "Nevada: Clark County; Spring Mountains, Cottonwood Pass Road, 0.6 road miles south of Nevada State Route 160 (Pahrump Road) to Cottonwood Pass, 1340 m, T23S R58E S2, 11, 14 and T22S R58E S35 on USGS Goodsprings, Nev. 15' quadrangle"

Types: Holotype in MGCL.

- 118. *Pyrgus communis*** (Grote, 1872)
The species-level arrangement presented by Burns (2000), J. Lepid. Soc. 54(2): 52-71, is accepted here, but the synonymy remains tentative and is clearly in need of review.

- a. *Pyrgus communis communis*** (Grote, 1872)
Can. Entomol. 4(4): 69-70.
Original Combination: [*Hesperia*] *Syrichthus communis*
Type Locality: "central Alabama"; suggested to be "vicinity of Demopolis" by Burns (2000), J. Lepid. Soc. 54(2): 62. [Marengo County]

Types: Syntype (#7170) in ANSP.
= ‡*tessellata* (Scudder, 1872)
4th Ann. Rep. Peabody Acad. Sci. (1871): 73-74, no. 2.
Original Combination: *H[esperia]. tessellata*
Type Locality: "Pennsylvania, Maryland, Iowa, Florida, Alabama, Texas, Missouri and California"; defined as "Pennsylvania" by Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 219; syntypes from "Dallas, Tex...California."
Types: Syntypes (#15823) in MCZ.
Preoccupied by *Hesperia tessellata* Hewitson, [1866], Trans. Entomol. Soc. Lond. (3)2(6): 494.

= *insolatrix* Plötz, 1884
Mitt. naturw. Ver. Neu-Vorpomm. 15: 4, no. 7; cited unpublished pl. 887.

Original Combination: [*Pyrgus* (*Pyrgus*)] *Insolatrix*
Type Locality: "Mexico"
Types: Type(s) may be in ZSMC.

= *varus* Plötz, 1884
Mitt. naturw. Ver. Neu-Vorpomm. 15: 20, no. 53, cited unpublished pl. 900.

Original Combination: [*Pyrgus* (*Syrichthus*)] *Varus*
Type Locality: "Mexico"
Types: Type(s) may be in ZSMC.

= ‡"skinneri" (Gunder, 1927)
Entomol. News 38(2): 51, fig. 2 ♂ D&V ("holotype").



Original Combination: *Urbanus*

tesselata var. *occidentalis* ab. *skinneri*

Type Locality: "Los Angeles, Los Angeles County, California"

Types: "Holotype" in AMNH; figured by J. A. Comstock (1927), *Butterflies Calif.*: pl. 62, fig. 7 ♀ D.

± "albovittata" (Grote, 1873)

Bull. Buffalo Soc. Nat. Sci. 1(3): 168.

Original Combination: *Hesperia albovittata*

Type Locality: "südlichen Theile von Alabama"
Grote referred to specimens in ZMHB under a manuscript name, in a communication with Zeller; it is a *nomen nudum*.

119. **Pyrgus albescens** Plötz, 1884

Mitt. naturw. Ver. Neu-Vorpomm. 15: 4, no. 5, cited unpublished pl. 889.

Original Combination: [*Pyrgus* (*Pyrgus*)] *Albescens*

Type Locality: "Mexico"

Types: Type(s) may be in ZSMC.

This taxon has been considered a subspecies or form of *P. communis* by various authors (e.g., Lindsey *et al.* (1931), Denison Univ. Bull. 31(2), J. Sci. Lab. 26(1): 46, Tilden (1965), J. Lepid. Soc. 19(2): 91-94, Austin (1981), J. Res. Lepid. 19(4): 242, and (1986), J. Lepid. Soc. 40(1): 55-58), but Burns (2000), J. Lepid. Soc. 54(2): 52-71, and Calhoun (2002), J. Lepid. Soc. 56(2): 98-103, corroborated its species-level status.

= *occidentalis* Skinner, 1906

Entomol. News 17(3): 96; figured by Skinner (1906),

Entomol. News 17(8): pl. 12, middle row left ♂ & ♀ D, middle row right ♂ & ♀ V.

Original Combination: *Pyrgus occidentalis*

Type Locality: "San Bernardino Ranch, Cochise County, Arizona ...and Brownsville, Texas"; syntype labels read "San Antonio, Texas" and "Alamagordo, N. M."

Types: Syntype (#7108) in CMNH.

120. **Pyrgus philetas** W. H. Edwards, 1881

Papilio 1(4): 43, 46-47, no. 4.

Original Combination: *Pyrgus philetas*

Type Locality: "Western Texas"; defined as "Archer County" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 623.

Types: Holotype in CMNH, figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 50, fig. 24 ♀ [not ♂] D and F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): fig. 13 ♀ D&V.

Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 222, considered this taxon a subspecies of *oileus*. Burns and Kendall (1969), Psyche 76(1): 42-43, demonstrated that *philetas* and *P. oileus* are distinct species.

121. **Pyrgus oileus** (Linnaeus, 1767)

Syst. Nat. (ed. 12) 1(2): 795-796, no. 269.

Original Combination: *P[apilio]*. *P[lebejus Urbicola]*. *Oileus*

Type Locality: "Algiriae" [Algeria]; suggested to be "Mexico or the U.S.A." by Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 221.

Types: Type(s) apparently lost, as noted by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 356.

This name was resurrected by Evans (1953), *ibid.*, to replace *syrichtus*, a name previously in wide use.

= *syrichtus* (Fabricius, 1775)
Syst. Entomol.: 534, no. 394.

Original

Combination: *P[apilio]. P[lebejus] U[rbicola] Syrichtus*

Type Locality: "America"; Fabricius (1793), Entomol. Syst. 3(1): 349, no. 326, listed "in America meridionali"

Types: Syntypes in ZMUC.

Fabricius (1793), Entomol. Syst. 3(1): 349, no. 326, cited *Papilio oileus* Linnaeus, 1767, which is further justification for this synonymy.

= *montivagus* Reakirt, [1867]
Proc. Acad. Nat. Sci. Philad. 18(4): 334, no. 33.

Original Combination: *Pyrgus montivagus*

Type Locality: "Rocky Mountains, Colorado Territory...Mexico, near Vera Cruz"

Types: Syntype(s) in FMNH.

= *adjutrix* Plötz, 1884
Mitt. naturw. Ver. Neu-Vorpomm. 15: 15, no. 38, cited unpublished pl. 882.

Original Combination: [*Pyrgus (Scelothrix)*] *Adjutrix*

Type Locality: "Mexico"

Types: Type(s) may be in ZSMC.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 147, suggested that this is "= *Hesperia montivaga*, Reak." through an examination of the unpublished drawing made by Plötz.

= *fumosa* (Reverdin, 1919)
Bull. Soc. Lépid. Genève 4(2): 106, pl. 4, fig. 2 ♀ D&V.
Original Combination: [*Hesperia syrichtus*] var. (ab.?) *fumosa*

Type Locality: "Mexique (Vera Cruz); Arizona; Florida (Key West); Jamaica; Cuba; Porto-Rico; Brésil (Chapada); Cuba (Guantanamo)"

Types: Location of type(s) not known, probably in MHNG (Reverdin collection).

Genus *Heliopyrgus* Herrera, 1957

In: Herrera *et al.*, Revta. chil. Entomol. 5: 154. Type-species: *Syrichtus americanus* Blanchard, 1852, *in:* Gay, Hist. fis. pol. Chile 7: 44, no. 2, pl. 3, fig. 10, by original designation. Austin and A. Warren (2001), Dugesiana 8(1): 4, resurrected this genus.

122. *Heliopyrgus domicella* (Erichson, [1849])

a. *Heliopyrgus domicella domicella* (Erichson, [1849])

In: Schomburgk, Reisen Brit.-Guiana 3: 604.

Original Combination: *S[yrichtus]. Domicella*

Type Locality: "British Guiana" implied from the title of the work. [Guyana]

Types: Location of type(s) not known (ZMHB?).

= *nearchus* (W. H. Edwards, 1882)
Papilio 2(2): 26-27.

Original Combination: *Pyrgus Nearchus*

Type Locality: "southern Arizona"; suggested to be "vicinity of Tucson" by F. Brown and L. Miller (1975),

Trans. Am. Entomol. Soc. 101(4): 637. [Pima County]

Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 639, fig. 20 ♂ D&V.

= *aconita* (Plötz, 1884)

Mitt. naturw. Ver. Neu-Vorpomm. 15: 3, no. 1.

Original Combination: [*Pyrgus* (*Pyrgus*)] *Aconita*

Type Locality: "Georgia", in error.

Types: Type(s) may be in ZSMC.

123. ***Heliopyrgus sublinea*** (Schaus, 1902)

Proc. U. S. Nat. Mus. 24(1262): 434.

Original Combination: *Heliopetes sublinea*

Type Locality: "Orizaba, Paso de San Juan, Mexico" [Veracruz]

Types: Holotype (#5992) in USNM.

Recorded from Texas by Basham *et al.* (2005), News Lepid. Soc. 47(1): 9-10, 6 figs.

Genus ***Heliopetes*** Billberg, 1820

Enum. Ins. Mus. Billb.: 81. Type-species: *Papilio niveus* Cramer, 1775, Uitl. Kapellen 1(2): 33, pl. 22, fig. C; (8): 154 (index) (= *Papilio arsalte* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 469, no. 67; synonym), by monotypy.

= *Leucoscirtes* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 73. Type-species: *Syrichtus ericetorum* Boisduval, 1852, Annls. Soc.

Entomol. Fr. (2)10: 313, no. 71, by original designation.

124. ***Heliopetes ericetorum*** (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 313, no. 71; figured by Oberthür (1912), Étud. Lépid. Comp. 6: pl. 137, fig. 1210 ♂ D&V (lectotype).

Original Combination: *Syrichtus ericetorum*

Type Locality: "Californie" implied from the title of the paper; defined as "vicinity of Sawmill Peak at Griffin Gulch, rim of West Branch Feather River, 2 air miles E. of Magalia, Butte County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 20.

Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 20, figs. 132 ♂ D, 133 ♂ V.

= *alba* (W. H. Edwards, 1866)

Proc. Entomol. Soc. Philad. 6(2): 200, 206, no. 6.

Original Combination: *Syrichtus Alba*

Type Locality: "Arizona"; defined as "vicinity of Fort Whipple" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 635. [Yavapai County]

Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 637, fig. 19 ♂ D&V.

125. ***Heliopetes macaira*** (Reakirt, [1867])

a. ***Heliopetes macaira macaira*** (Reakirt, [1867])

Proc. Acad. Nat. Sci. Philad. 18(4): 334-335, no. 34.

Original Combination: *Pyrgus macaira*

Type Locality: "Mexico (near Vera Cruz)" [Veracruz]

Types: A syntype in FMNH.

= ‡*nivea* (Scudder, 1872)



- 4th Ann. Rep. Peabody Acad. Sci. (1871): 73-74, no. 2.
Original Combination: *L[euco]scirtes*. *nivea*
Type Locality: "Tehuantepec" [Oaxaca, Mexico]
Types: Syntypes (#15321) in MCZ.
 Secondly preoccupied by *Papilio niveus* Cramer, 1775, Uitl. Kapellen 1(2): 33, pl. 22, fig. C ♂ D; (8): 154 (index).
- = *locutia* (Hewitson, 1875)
 Ill. exot. Butterflies 5: [112], pl. Leucochitonea II, figs. 19 ♂ D, 20 ♂ V.
Original Combination: *Leucochitonea Locutia*
Type Locality: "Taboga Isl., Panama"
Types: Holotype in BMNH.
- = *cnemus* Godman & Salvin, 1897
 Biol. centr.-amer., Lepid. Rhop. 2(137): 448-449, no. 8; 3(138): pl. 90, figs. 25 ♀ D, 26 ♀ V.
Original Combination: *Heliopetes cnemus*
Type Locality: "Mexico, Lake Chapala...Dos Arroyos, Venta de Zopilote, Acapulco in Guerrero, Atoyac in Vera Cruz"
Types: Holotype in BMNH.
 ‡"eulalia" (Plötz, 1885)
 Stettiner Entomol. Ztg. 46(1-3): 39, no. 9.
Original Combination: [*Leucochitonea*] *Locutia* [synonym] *Eulalia*
 This name was listed in synonymy without a description or indication; a *nomen nudum*.
126. **Heliopetes laviana** (Hewitson, 1868)
 a. **Heliopetes laviana laviana** (Hewitson, 1868)
 Descr. one hundred new spec. Hesp. (2): 48-49, no. 8; figured by Hewitson (1875), Ill. exot. Butterflies 5(95): pl. Leucochitonea II, figs. 15 ♂ D, 16 ♂ V.
Original Combination: *Leucochitonea Laviana*
Type Locality: "Nicaragua"
Types: Holotype in BMNH.
- = *pastor* (R. Felder, 1869)
 Verh. zool.-bot. Ges. Wien 19: 476, no. 33.
Original Combination: *Leucochitonea Pastor*
Type Locality: "Lerma" [Mexico State, Mexico]; syntypes from "Lerma, Mexico, 1 male from Ypanema (S. Paulo, Brasilien)"
Types: Syntypes in NMW.
- = *oceanus* (W. H. Edwards, 1871)
 Trans. Am. Entomol. Soc. 3(3/4): 205, 213-214, no. 16.
Original Combination: *Syrictus Oceanus*
Type Locality: "Arizona"; suggested to be "vicinity of Guaymas, Sonora, Mexico" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 634.
Types: Holotype in CMNH, figured by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 634, fig. 18 ♂ D&V.
- = *dividua* Röber, 1925
 Entomol. Mitt. 14(1): 99.
Original Combination: *Heliopetes dividua*
Type Locality: "Wes-Kolumbien (Rio Magdalena)"



- Types:** Holotype in MTD.
127. **Heliopetes arsalte** (Linnaeus, 1758)
Syst. Nat. (ed. 10) 1: 469, no. 67; referred to specimens in Museum Ludovicae Ulricaе; figured by Clerck [1764], Icon. Ins. 2: pl. 23, fig. 2 ♂ D&V.
Original Combination: *P[apilio]. D[anaus candidus] Arsalte*
Type Locality: “in Indiis”; suggested to be “South America, probably the Guianas” by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 301.
Types: Type(s) apparently lost.
= *†menalcas* (Fabricius, 1775)
Syst. Entomol.: 535, no. 397.
Original Combination: *P[apilio]. P[lebejus] U[rbicola] Menalcas*
Type Locality: “Indiis”
Types: Syntype in ZMUC.
Preoccupied by *Papilio menalcas* Poda, 1761, Ins. Mus. graec. 78.
= *niveus* (Cramer, 1775)
Uitl. Kapellen 1(2): 33, pl. 22, fig. C ♂ D; (8): 154 (index).
Original Combination: *Pap[ilio]. Pleb[ejus]. Urbico[la]. Niveus*
Type Locality: “Surinamische” “Surinam”
Types: Type(s) probably lost.
= *†crameri* Billberg, 1820
Enum. Ins. Mus. Billb.: 81.
Original Combination: *Heliopetes Crameri*
Type Locality: “Surin.” [Surinam]
Types: Type(s) probably lost.
Proposed as a replacement name for *Papilio niveus* Cramer, 1775, erroneously thought preoccupied; a junior objective synonym of *Papilio niveus*.
= *figara* (Butler, 1870)
Trans. Entomol. Soc. Lond. (4)18(4): 510, no. 3.
Original Combination: *Pyrgus Figara*
Type Locality: Not stated.
Types: Holotype in BMNH.

Subfamily Heteropterinae Aurivillius, 1925

In: Seitz, Grossschmett. Erde 13(366): 506; (368): 546 (as “Heteropterini”). Type-genus: *Heteropterus* Duméril, 1806, Zool. analytique: 271. Verity (1940), Farfalle diurne Ital. 1: 86, replaced Cyclopidinae Speyer, 1879, Stettiner Entomol. Ztg. 40(10-12): 483, 486, with this name. Code Article 40.2 provides that such action taken before 1961, and becoming widely accepted (as it has), is valid.

Genus Carterocephalus Lederer, 1853

Verh. zool.-bot. Ges. Wien 2: 26. Type-species: *Papilio paniscus* Fabricius, 1775, Syst. Entomol.: 531, no. 377 (= *Papilio palaemon* Pallas, 1771, Reise verschied. Prov. Russisch. Reichs 1, Anhang: 471, no. 63; synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 134, no. 217. The history of this name, and the confusion surrounding it, was summarized by Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 96-97.

- = *Aubertia* Oberthür, 1896
Étud. Entomol. 20: 40. Type-species: *Aubertia dulcis* Oberthür, 1896, Étud. Entomol. 20: 40, pl. 9, fig. 16 (= *Carterocephalus christophi* Grum-Grschmailo, 1891, Horae Soc. Entomol. Ross.

- 25(3/4): 460, no. 44; synonym), by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 79.
 = *Pamphilida* Lindsey, 1925
 Ann. Entomol. Soc. Am. 18(1): 95. Type-species: *Papilio palaemon* Pallas, 1771, Reise verschied. Prov. Russisch. Reichs 1, Anhang: 471, no. 63, by original designation.

- *128. *Carterocephalus palaemon* (Pallas, 1771)**
 Reise verschied. Prov. Russisch. Reichs 1, Anhang: 471, no. 63.
Original Combination: *Papilio Palaemon* (*Plebeius urbicola*)
Type Locality: Not stated; mentioned in the body of the text (p. 182) from "Bach Achtuschka" near "Nowodewitschie" [Novodevitschia, Kuybyshevskaya Oblast, Russia]
Types: Type(s), if any exist, may be in ZMHB.
 Most of the Palaearctic synonymy is not listed.
 = *brontes* ([Denis & Schiffermüller], 1775)
 Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 160, no. 6.
Original Combination: *P[apilio]. Brontes*
Type Locality: "Wienergegend" implied from the title of the work. [Vienna, Austria]
Types: Location of type(s) not known, probably lost.
 = *paniscus* (Fabricius, 1775)
 Syst. Entomol.: 531, no. 377.
Original
Combination: *P[apilio]. P[lebeius]. U[rbicola] Paniscus*
Type Locality: "Lipsiae" [Leipzig, Germany]
Types: One syntype in ZMUC.
a. *Carterocephalus palaemon mesapano* (Scudder, 1868)
 Proc. Boston Soc. Nat. Hist. 11: 383-384, no. 94; figured by Scudder (1889), Butterflies E. U. S. & Can. 3(12): pl. 10, fig. 2 ♂ D&V.
Original Combination: *Hesperia Mesapano*
Type Locality: "Norway, Me." [Oxford County, Maine]
Types: Syntype (#15306) in MCZ.
b. *Carterocephalus palaemon mandan* (W. H. Edwards, 1863)
 Proc. Entomol. Soc. Philad. 2(1): 14, 20-21, no. 11; (4): pl. 5, fig. 1 ♂ D&V.
Original Combination: *Hesperia Mandan*
Type Locality: "Lake Winnipeg"; neotype from "Pine Ridge, Manitoba, Canada."
Types: Neotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 262, fig. ♂ D&V.
c. *Carterocephalus palaemon skada* (W. H. Edwards, 1870)
 Trans. Am. Entomol. Soc. 3(2): 189, 196, no. 13.
Original Combination: *Cyclopides Skada*
Type Locality: "Kodiak" [Alaska]
Types: Neotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 263-264, fig. 2 ♂ D&V.
 W. H. Edwards (1870) redescribed *Steroptes skada* in Trans. Am. Entomol. Soc. 3(2): 205, 214, no. 17. The



“holotype” of the second described *skada* was made the neotype of the first to prevent confusion. W. Forbes (1960), Mem. Cornell Univ. Agric. Exp. Sta. 371 (part 4): 75, believed that this taxon is the same as *albiguttata* Christoph, 1893, Dtsche. Entomol. Z. “Iris” 6(1): 87-88, from “Vilui, Irkut, Guberli, Ural merid.”

= *mackenziei* Wyatt, 1965

Z. wien. entomol. Ges. 50[76](5): 70-71, pl. 8, figs. 1 ♂ D, 1a ♂ V, 2 ♀ D, 2a ♀ V.

Original Combination: *Carterocephalus palaemon mackenziei*

Type Locality: “Norman Wells, N.W.T., Canada” [Northwest Territories]

Types: Holotype in LNKD.

d. *Carterocephalus palaemon magnus* Mattoon & Tilden, 1998

Syst. W. N. Am. Butterflies (51): 641-642, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Carterocephalus palaemon magnus*

Type Locality: “California: Sonoma County; Kruse Ranch Road at Plantation, ca. 3 air miles east Highway 1, at Pacific Ocean, or 1 road mile West of junction Seaview Road and Hauser Bridge Road”

Types: Holotype in LACM.

Genus *Piruna* Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 10, 11. Type-species: *Pholisora pirus* W. H. Edwards, 1878, Field & Forest 3(7/8): 119, by original designation.

129. *Piruna pirus* (W. H. Edwards, 1878)

Field & Forest 3(7/8): 119.

Original Combination: *Pholisora Pirus*

Type Locality: “Southern Colorado”; suggested to be “Hardscrabble Canyon, Custer County, Colorado” by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 264, 265.

Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 265, fig. 3 ♂ D&V.

This taxon was redescribed by W. H. Edwards (1881), Trans. Am. Entomol. Soc. 9(1): 7.

= *semicaeca* (Mabille & Boulet, 1917)

Bull. Soc. Entomol. Fr. 1917(4): 100.

Original Combination: *Pholisora Pirus* var. *semicaeca*

Type Locality: “Utah, U. S.”

Types: Holotype in MNHP.

130. *Piruna haferniki* H. Freeman, 1970

J. Lepid. Soc. 24(4): 247-248, figs. 1 ♂ D, 2 ♂ V (holotype), 3 ♂ genitalia.

Original Combination: *Piruna haferniki*

Type Locality: “Green Gulch, Big Bend National Park, Brewster County, Texas, elev. 5700 ft.”

Types: Holotype in AMNH.

131. *Piruna polingii* (W. Barnes, 1900)

Can. Entomol. 32(2): 42, 44.

Original Combination: *Pyrgus Polingii*



- Type Locality:** "Huachuca Mountains, Arizona" [Cochise County]
Types: Syntype in USNM; two figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 51, fig. 19 ♂ D, 20 ♀ V.
- *132. **Piruna aea** (Dyar, 1912)
 Proc. U. S. Nat. Mus. 42(1885): 44.
Original Combination: *Butleria aea*
Type Locality: "Sierra de Guerrero, Mexico...Oaxaca, Mexico"
Types: Syntypes (#14276) in USNM.
 = *cingo* Evans, 1955
 Cat. Am. Hesp. Brit. Mus. (4): 14, pl. 54 ♂ genitalia.
Original Combination: [*Piruna*] *cingo*
Type Locality: "Chilpancingo, Guerrero, 4600 feet"
Types: Holotype in BMNH.
 = *sombra* Evans, 1955
 Cat. Am. Hesp. Brit. Mus. (4): 14, pl. 54 ♂ genitalia.
Original Combination: [*Piruna cingo*] *sombra*
Type Locality: "Guatemala"
Types: Holotype in BMNH.
- a. **Piruna aea mexicana** H. Freeman, 1979
 Bull. Allyn Mus. (52): 5-6, figs. 12 ♂ D, 13 ♂ V (holotype), 25 ♂ genitalia.
Original Combination: *Piruna mexicana*
Type Locality: "9 miles east of Queretaro, Queretaro, Mexico"
Types: Holotype in MGCL.
 Scott (1986), Butterflies N. Am.: 426, no. 434, and Bailowitz and Brock (1991), Butterflies SE Ariz.: 71, considered this taxon a synonym of *Piruna cingo*. A. Warren (2000), in: Llorente *et al.*, Biodivers. Taxon. Biogeogr. Artrópod. Méx. 2: 555, proposed this arrangement.
133. **Piruna penaea** (Dyar, 1918)
 Proc. U. S. Nat. Mus. 54(2239): 338.
Original Combination: *Butleria penaea*
Type Locality: "Sierra de Guerrero, Mexico"
Types: Holotype (#21210) in USNM.
 Opler and A. Warren (2002), Sci. Names List Butterflies N. A.: 8, applied this name to the skipper previously reported (from Texas) as *Piruna microsticta* (Godman, 1900), in: Godman & Salvin, Biol. centr.-amer., Lep. Rhop. 2(156): 464, no. 1; 3: pl. 92, figs. 1 ♂ (not ♀) D, 2 ♂ (not ♀) V, 3 ♂ D.
 = *milpa* H. Freeman, 1970
 J. N. Y. Entomol. Soc. 78(2): 96, figs. 11 ♂ D, 12 ♂ V (holotype), fig. 22 ♂ genitalia.
Original Combination: *Piruna milpa*
Type Locality: "Milpillas, Guerrero, Mexico"
Types: Holotype in AMNH.

Subfamily Hesperinae Latreille, 1809

Tribe incertae sedis ,

The phylogenetic position of the following genera currently remains uncertain, as does their tribal affiliation.

Genus Agathymus H. Freeman, 1959

Lepid. News 12(3/4): 82-83. Type-species: *Megathymus neumoeegeni* W. H. Edwards, 1882, Papilio 2(2): 27-28, by original designation.



134. **Agathymus neumoeegeni** (W. H. Edwards, 1882)
a. **Agathymus neumoeegeni neumoeegeni** (W. H. Edwards, 1882)
Papilio 2(2): 27-28.
Original Combination: *Megathymus Neumoeegeni*
Type Locality: "southern Arizona"; defined as "About ten miles from Prescott, Ariz." by Ottolengui (1895), Entomol. News 6(7): 218, and "Prescott, Arizona" by Stallings and Turner (1954), Lepid. News 8(3/4): 79; corrected to "approx. 9 mi S. Prescott, Ariz." by H. Freeman (1963), J. Res. Lepid. 2(2): 139; stated as "Prescott, Yavapai County, Arizona" by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 63-64.
Types: Lectotype (#3368) in USNM, designated by Stallings and Turner (1954), Lepid. News 8(3/4): 79, pl. 2, top row ♂ D&V; figured by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): fig. 26 ♂ D&V. I.C.Z.N. *Opinion 483* placed this name on the *Official List of Specific Names in Zoology* as name no. 1386.
b. **Agathymus neumoeegeni judithae** (D. Stallings & Turner, 1957)
Entomol. News 68(1): 5-6, pl. 4, top row ♀ D&V (holotype), 2nd row ♂ D&V, 3rd row genitalia of both sexes.
Original Combination: *Megathymus judithae*
Type Locality: "Hueco Mts., Hueco, Texas, el. 5300 ft."; defined as "Approximately 8 miles east of Hueco, in the Hueco Mountains, El Paso Co., Texas" by H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 36.
Types: Holotype in PMNH.
c. **Agathymus neumoeegeni diabloensis** H. Freeman, 1962
Am. Mus. Novit. (2097): 1-5, figs. 1, 2 ♂ D&V, 3, 4 ♀ D&V (holotype).
Original Combination: *Agathymus diabloensis*
Type Locality: "5 miles west of Victoria Canyon, Diablo Mountains, Hudspeth County, Texas"
Types: Holotype in AMNH.
d. **Agathymus neumoeegeni carlsbadensis** (D. Stallings & Turner, 1957)
Entomol. News 68(1): 8-10, pl. 3, top row ♀ D&V (holotype), 2nd row ♂ D&V, 3rd row genitalia of both sexes.
Original Combination: *Megathymus carlsbadensis*
Type Locality: "Guadeloupe Mts., Carlsbad Cavern National Park, New Mexico, on the mesa at head of Yucca Canyon, el. 5470 ft." [Eddy County]
Types: Holotype in PMNH.
e. **Agathymus neumoeegeni florenceae** (D. Stallings & Turner, 1957)
Entomol. News 68(1): 12-13, pl. 4, top row ♀ D&V (holotype), 2nd row ♂ D&V, 3rd row genitalia of both sexes.
Original Combination: *Megathymus florenceae*
Type Locality: "Davis Mts., Ft. Davis, Texas, el. 6200 ft."; defined as "Davis Mountains, Scenic Drive, Jeff



- Davis Co., Texas" by H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 35.
Types: Holotype in PMNH.
- f. **Agathymus neumoegei mcalpinei** (H. Freeman, 1955)
 Am. Mus. Novit. (1711): 6, figs. 15 ♂ D, 16 ♂ V (holotype), 17 ♀ D, 18 ♀ V, 30 ♂ genitalia, 31 ♀ genitalia.
Original Combination: *Megathymus mcalpinei*
Type Locality: "5.1 miles north of Marathon, Texas" [Brewster County]
Types: Holotype in AMNH.
 This was spelled "macalpinei" by dos Passos (1964), Mem. Lepid. Soc. (1): 1, no. 5; an unjustified emendation.
- g. **Agathymus neumoegei chisosensis** (H. Freeman, 1952)
 Am. Mus. Novit. (1593): 1-3, figs. 1 ♂ D, 2 ♂ V (holotype), 3 ♀ D, 4 ♀ V, 8 ♂ genitalia, 13 ♀ genitalia.
Original Combination: *Megathymus chisosensis*
Type Locality: "Chisos Basin, Chisos Mountains, Texas"; defined as "Chisos Mountains, el. 5400 ft., Brewster Co., Texas" by H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 37.
Types: Holotype in AMNH.
 The chromosome numbers for various members of this complex are discordant. H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 36-38, recorded a chromosome number of 10 for *florenceae* and *mcalpinei*, and 18 for *chisosensis*. Ferris (1989), Mem. Lepid. Soc. (3): 13, cited this as justification for considering *chisosensis* a distinct species. The species-level status of *chisosensis* needs further investigation.
135. **Agathymus polingi** (Skinner, 1905)
 Entomol. News 16(7): 232.
Original Combination: *Megathymus polingi*
Type Locality: "So. Arizona...Baboquivari Mountains, Pima County"; defined as "Baboquivari Mountains, Pima Co., Arizona" by H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 53.
Types: Syntype (#7059) in CMNH; "paratypes" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 54, fig. 31 ♂ D, 32 ♀ D.
136. **Agathymus evansi** (H. Freeman, 1950)
 Field & Lab. 18(1): 144-145.
Original Combination: *Megathymus evansi*
Type Locality: "Ramsey Canyon, Cochise County, Arizona" [Huachuca Mtns.]
Types: Holotype in AMNH; figured by Stallings and Turner (1954), Lepid. News 8(3/4): pl. 2, 3rd row ♂ D&V, and H. Freeman (1955), Am. Mus. Novit. (1711): figs. 11 ♂ D, 12 ♂ V.
137. **Agathymus aryxna** (Dyar, 1905)
 J. N. Y. Entomol. Soc. 13(3): 141.
Original Combination: *M[egathymus]. aryxna*
Type Locality: Not specifically stated, cited *Megathymus neumoegei* (*sensu* H. Druce (1897), Biol. centr.-amer. Lepid. Het. 3(133): 320, pl. 69, figs. 3 ♂ D, 4 ♀ D, from "Mexico...Northern Sonora"); defined as "SE of Nogales,

Sonora" by Barnes and McDunnough (1912), Contr. Nat. Hist. Lepid. N. Am. 1(3): 23; further defined as "western slopes of the Patagonia Mtns., S. E. of Nogales, Sonora, Mexico" by H. Freeman (1963), J. Res. Lepid. 2(2): 139.

Types: Lectotype in BMNH, designated by I.C.Z.N. *Opinion* 483; restricted to fig. 4 ♀ [sic! ♂] D in H. Druce (1897), Biol. centr.-amer. Lepid. Het. 3(133): pl. 69; also figured by Stallings and Turner (1954), Lepid. News 8(3/4): pl. 3, 3rd row ♂ D. The same specimen was designated lectotype by Skinner and R. Williams (1924), Trans. Am. Entomol. Soc. 50(3): 205. I.C.Z.N. *Opinion* 483 placed this name on the *Official List of Specific Names in Zoology* as name no. 1358.

= *drucei* (Skinner, 1911)

Trans. Am. Entomol. Soc. 37(3): 207; cited *Megathymus neumoegei* (*sensu* H. Druce (1897), Biol. centr.-amer. Lepid. Het. 3(133): pl. 69, fig. 3 ♂ D).

Original Combination: [*Megathymus*]. *drucei*

Type Locality: "Mexico"

Types: Lectotype in BMNH, designated by I.C.Z.N. *Opinion* 483; figured by Stallings and Turner (1954), Lepid. News 8(3-4): pl. 3, 2nd row ♂ D&V (as holotype), 4th row ♂ genitalia.

138. **Agathymus baueri** (D. Stallings & Turner, 1954)

a. **Agathymus baueri baueri** (D. Stallings & Turner, 1954)

Lepid. News 8(3-4): 80-81, pl. 1, 3rd row ♂ D&V (holotype), 4th row ♀ D&V, pl. 4, 2nd row ♂ genitalia.

Original Combination: *Megathymus baueri*

Type Locality: "near Verde Hot Springs, Yavapai County, Arizona...elevation 4,000 ft."

Types: Holotype in PMNH.

b. **Agathymus baueri freemani** D. Stallings & Turner, 1960

Entomol. News 71(5): 109-110, 112, pl. 1, top ♂ D&V (holotype), middle ♀ D&V, bottom ♂ & ♀ genitalia.

Original Combination: *Agathymus freemani*

Type Locality: "near Bagdad, Ariz." [Yavapai County]

Types: Holotype in PMNH.

139. **Agathymus gentryi** Roever, 1998

Syst. W. N. Am. Butterflies (41): 491-492, figs. 1a ♂ D, 1b ♂ V (holotype), 1c ♀ D, 1d ♀ V.

Original Combination: *Agathymus gentryi*

Type Locality: "Arizona. Pima County, vic. Agua Dulce Spring, 670-790 m, Agua Dulce Mountains"

Types: Holotype in AMNH.

140. **Agathymus mariae** (W. Barnes & Benjamin, 1924)

a. **Agathymus mariae mariae** (W. Barnes & Benjamin, 1924)

Contr. Nat. Hist. Lepid. N. Am. 5(3): 100-101.

Original Combination: *Megathymus mariae*

Type Locality: "El Paso Texas"; defined as "Franklin Mountains, El Paso, El Paso Co., Texas" by H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 45.

Types: Holotype in USNM.

b. **Agathymus mariae chinatiensis** H. Freeman, 1964

J. Lepid. Soc. 18(3): 172-173, pl. 1, 3rd row ♂ D&V, pl. 2, 3rd row ♀ D&V (holotype), pl. 3, figs. 2 ♂ genitalia, 7 ♀ genitalia, 12 cremaster.



- Original Combination:** *Agathymus chinatiensis*
Type Locality: "2.7 miles south of Shafter, Texas"
 [Presidio County]
Types: Holotype in AMNH.
- c. **Agathymus mariae lajitaensis** H. Freeman, 1964
 J. Lepid. Soc. 18(3): 174-175, pl. 1, lower row ♂ D&V, pl. 2, bottom row ♀ D&V (holotype), pl. 3, figs. 3 ♂ genitalia, 8 ♀ genitalia, 13 cremaster.
Original Combination: *Agathymus lajitaensis*
Type Locality: "10 miles west of Lajita, Texas" [Presidio County]
Types: Holotype in AMNH.
- d. **Agathymus mariae rindgei** H. Freeman, 1964
 J. Lepid. Soc. 18(3): 180-182, pl. 1, top row ♂ D&V, pl. 2 top row ♀ D&V (holotype), pl. 3, figs. 5 ♂ genitalia, 10 ♀ genitalia, 15 cremaster.
Original Combination: *Agathymus rindgei*
Type Locality: "14 miles north of Bracketville, Texas"
 [Kinney County]
Types: Holotype in AMNH.
141. **Agathymus gilberti** H. Freeman, 1964
 J. Lepid. Soc. 18(3): 176-178, pl. 1, 2nd row ♂ D&V, pl. 2 2nd row ♀ D&V (holotype), pl. 3, figs. 4 ♂ genitalia, 9 ♀ genitalia, 14 cremaster.
Original Combination: *Agathymus gilberti*
Type Locality: "14 miles north of Bracketville, Texas"
 [Kinney County]
Types: Holotype in AMNH.
 As mentioned under *Agathymus neumoegei chisosensis* (H. Freeman, 1952), chromosome numbers for various members of this complex are discordant. H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 46, recorded a chromosome number of 22 for *rindgei* and 21 for *gilberti*. These two taxa have the same type locality and cannot be subspecies of the same species. They are either distinct species or synonyms. It is possible that there was an error in the determination of chromosome number. The species-level status of *gilberti* needs investigation.
- *142. **Agathymus estelleae** (D. Stallings & Turner, 1958)
 Lepid. News 11(4-5): 119, 121, pl. 2, top row ♀ D&V (holotype), 2nd row ♂ D&V, lower row ♂&♀ genitalia.
Original Combination: *Megathymus estelleae*
Type Locality: "the plains 56 miles southwest of Reynosa, Mexico, near General Bravo, Nuevo Leon, Mexico, at an elevation of 400 ft."
Types: Holotype in PMNH.
- a. **Agathymus estelleae valverdiensis** H. Freeman, 1966
 J. Lepid. Soc. 20(3): 182-183, pl. 1, top row ♂ D&V, bottom row ♀ D&V, pl. 2 ♂&♀ genitalia.
Original Combination: *Agathymus valverdiensis*
Type Locality: "28 miles north of Del Rio, Val Verde County, Texas"; H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 49, added "el. 1450 ft."
Types: Holotype in AMNH.
 Roever (1975), in: Howe, Butterflies N. Am.: 415, considered *valverdiensis* a "weak subspecies" of *estelleae*. Scott (1986), Butterflies N. Am.: 423, considered *valverdiensis* and *estelleae* to be subspecies



- of *A. remingtoni* D. Stallings & Turner, 1958, *Lepid. News* 11(4-5): 117.
143. **Agathymus stephensi** (Skinner, 1912)
Entomol. News 23(3): 126-127.
Original Combination: *Megathymus neumoegeni stephensi*
Type Locality: "La Puerta, eastern edge of San Diego County, California"; defined as "Mason Valley (La Puerta), San Diego Co., California" by H. Freeman (1969), *J. Lepid. Soc.* 23(suppl. 1): 51.
Types: Syntype (#7060) in CMNH; figured by W. Barnes and McDunnough (1913), *Contr. Nat. Hist. Lepid. N. Am.* 2(1): pl. 1, fig. 7 ♀ D.
144. **Agathymus alliae** (D. Stallings & Turner, 1957)
 a. **Agathymus alliae alliae** (D. Stallings & Turner, 1957)
Entomol. News 68(1): 1-4, pl. 1, top row ♀ D&V (holotype), 2nd row ♂ D&V, 3rd row, genitalia of both sexes.
Original Combination: *Megathymus alliae*
Type Locality: "15 miles west of Cameron, Arizona, el. 5000 ft."; defined as "15 miles west of Cameron, Coconino Co., along canyon of Little Colorado River, el. 5000 ft., Arizona" by H. Freeman (1969), *J. Lepid. Soc.* 23(suppl. 1): 53.
Types: Holotype in PMNH.
 b. **Agathymus alliae paiute** Roever, 1998
Syst. W. N. Am. Butterflies (41): 492-493, figs. 3a ♂ D, 3b ♂ V (holotype), 3b ♀ D, 3d ♀ V.
Original Combination: *Agathymus alliae paiute*
Type Locality: "Nevada: Clark County, Peek-a-boo Cnyn. [sic!], N end Las Vegas Range, ca. 1770 m"
Types: Holotype in AMNH.

Genus *Megathymus* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 83. Type-species: *Eudamus* (?) *yuccae* Boisduval & Le Conte, [1837], *Hist. Lépid. Amér. sept.* (23-26): pl. 70, figs. [1]-[5] ♂ [not ♀], larva and pupa, by original designation. I.C.Z.N. *Opinion* 483 placed this name on the *Official List of Generic Names in Zoology* as name no. 1222.

145. **Megathymus yuccae** (Boisduval & Le Conte, [1837])
 a. **Megathymus yuccae yuccae** (Boisduval & Le Conte, [1837])
Hist. Lépid. Amér. sept. (24): pl. 70, [1] ♂ D, [2] ♀ V, [3] ♀ D, [4] larva, [5] pupa.
Original Combination: *Eudamus* (?) *Yuccae*
Type Locality: Not stated (there is no text), but "Georgia" implied from the notes for the original drawing by John Abbot; defined as "South Carolina to the southern tip of Florida" by H. Freeman (1943), *Entomol. News* 54(9): 211; redefined as "Scriven [sic!; Screven] County, Georgia" by H. Freeman (1952), *Field & Lab.* 20(1): 30; neotype from "Aiken County, South Carolina."
Types: Types are the specimens figured by John Abbot, and are probably lost. Neotype in AMNH, designated by H. Freeman (1952), *Field & Lab.* 20(1): 30.
 I.C.Z.N. *Opinion* 483 placed this name on the *Official List of Specific Names in Zoology* as name no. 1387.
 = *alabamae* H. Freeman, 1943
Entomol. News 54(3): 76-77.



- Original Combination:** *Megathymus yuccae alabamae*
Type Locality: "Anniston, Alabama" [Calhoun County]
Types: Holotype in AMNH.
 = *buchholzi* H. Freeman, 1952
 Field & Lab. 20(1): 31-33.
Original Combination: *Megathymus yuccae buchholzi*
Type Locality: "Jupiter, Florida" [Palm Beach County]
Types: Holotype in AMNH.
- b. *Megathymus yuccae reinthali*** H. Freeman, 1963
 J. Lepid. Soc. 17(2): 91, 93, pl. 1, 3rd row ♂ D&V, 4th row ♀ D&V (holotype).
Original Combination: *Megathymus yuccae reinthali*
Type Locality: "two miles W. Ben Wheeler, Texas" [Van Zandt County]
Types: Holotype in AMNH.
 = *kendalli* H. Freeman, 1965
 J. Lepid. Soc. 19(2): 83-84, pl. 1, top row ♂ D&V, 2nd row ♀ D&V.
Original Combination: *Megathymus yuccae kendalli*
Type Locality: "San Antonio, Bexar County, Texas"
Types: Holotype in AMNH.
- c. *Megathymus yuccae wilsonorum*** D. Stallings & Turner, 1958
 Lepid. News 11(4/5): 129-130, pl. 3, top row ♀ D&V (holotype), 2nd row ♂ D&V, lower row ♂&♀ genitalia.
Original Combination: *Megathymus wilsonorum*
Type Locality: "around Victoria, Tamps., Mexico" [Tamaulipas]
Types: Holotype in PMNH.
- d. *Megathymus yuccae louiseae*** H. Freeman, 1963
 J. Lepid. Soc. 17(2): 95-96, pl. 1, top row ♂ D&V, 2nd row ♀ D&V (holotype).
Original Combination: *Megathymus yuccae louiseae*
Type Locality: "16 miles north Del Rio, Texas" [Val Verde County]
Types: Holotype in AMNH.
- e. *Megathymus yuccae coloradensis*** C. Riley, 1877
 Trans. Acad. Sci. St. Louis 3(36): 567-568 (name given on 568).
Original Combination: [*Megathymus yuccae*]
 var. *Coloradensis*
Type Locality: "Colorado"; suggested to be "near Colorado Springs, Colorado" by H. Freeman (1969), J. Lepid. Soc. 23 (suppl.1): 13. [El Paso County]
Types: Syntypes in USNM.
 = *stallingsi* H. Freeman, 1943
 Entomol. News 54(9): 214-215.
Original Combination: *Megathymus yuccae stallingsi*
Type Locality: "Caldwell, Kansas" [Sumner County]
Types: Holotype in AMNH.
 = *winkensis* H. Freeman, 1965

- J. Lepid. Soc. 19(2): 87-88, pl. 1, 3rd row ♂ D&V, lower row ♀ D&V.
Original Combination: *Megathymus yuccae winkensis*
Type Locality: "Wink, Winkler County, Texas"
Types: Holotype in AMNH.
- = *elidaensis* D. Stallings, Turner & V. Stallings, 1966
 J. Lepid. Soc. 20(3): 170-172, pl. 4, top row ♀ D&V (holotype), bottom row ♂ D&V.
Original Combination: *Megathymus yuccae elidaensis*
Type Locality: "New Mexico, Roosevelt County, southwest of Elida"
Types: Holotype in PMNH.
- = "dee" H. Freeman, 1943
 Entomol. News 54(9): 216-217.
Original Combination: *Megathymus yuccae stallingsi* ♀ form *dee*
Type Locality: "Caldwell, Kansas" [Sumner County]
Types: Holotype in AMNH.
- f. **Megathymus yuccae reubeni** D. Stallings, Turner & V. Stallings, 1963
 J. Lepid. Soc. 17(2): 87, pl. 3, top row ♀ D&V (holotype), bottom row ♂ D&V.
Original Combination: *Megathymus yuccae reubeni*
Type Locality: "at an elevation of 5300 feet in the Hueco Mts. of Texas" [El Paso County]
Types: Holotype in PMNH.
- g. **Megathymus yuccae navajo** Skinner, 1911
 Entomol. News 22(7): 300.
Original Combination: *Megathymus yuccae* var. *navajo*
Type Locality: "Fort Wingate, New Mexico"; defined as "Fort Wingate, Zuni Mountains, McKinley Co., New Mexico" by H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 14; holotype labeled "Mountain back of post; Fort Wingate, N. M."
Types: Syntype (#7052) in CMNH; figured by Skinner (1911), Trans. Am. Entomol. Soc. 37(3): pl. 10.
- = *arizonae* Tinkham, 1954
 Bull. South. Calif. Acad. Sci. 53(2): 81-83, pl. 18, figs. 1 ♂ D, 2 ♀ D, pl. 19, figs. 3 ♂ D, 7 ♂ V (holotype); 4 ♀ D, 8 ♀ V.
Original Combination: *Megathymus yuccae arizonae*
Type Locality: "Mountain View, Pima County, Arizona"
Types: Holotype in LACM.
- = *browni* D. Stallings & Turner, 1960
 Entomol. News 71(5): 112, 114-115, pl. 2, top ♂ D&V (holotype), middle ♀ D&V, bottom ♂&♀ genitalia.
Original Combination: *Megathymus yuccae browni*
Type Locality: "near Salina, Utah" [Sevier County]
Types: Holotype in PMNH.
- = *albasuffusa* R. Wielgus & D. Wielgus, 1974

Bull. Allyn Mus. (17): 1-3, figs. 4 ♀ D, 5 ♀ V (holotype); 6 ♀ D, 7 ♀ V, 8 ♂ D, 9 ♂ V, 10 ♂ D, 11 ♂ V.

Original Combination: *Megathymus coloradensis albasuffusa*

Type Locality: "Wahweap Campground, Glen Canyon National recreation Area, 5 miles northwest of Glen Canyon Dam, 3700' elevation, Coconino County, Arizona"

Types: Holotype in MGCL.

h. *Megathymus yuccae martini* D. Stallings & Turner, 1956

Bull. South. Calif. Acad. Sci. 55(3): 150-152; figured by Tinkham (1954), Bull. South. Calif. Acad. Sci. 53(2): pl. 18, figs. 3 ♂ D, 4 ♀ D; pl. 19, figs. 1 ♂ D, 2 ♀ D, 5 ♂ V, 6 ♀ V.

Original Combination: *Megathymus yuccae martini*

Type Locality: "Little Rock, Los Angeles Co., California"

Types: Holotype in PMNH.

= *maudae* D. Stallings, Turner & V. Stallings, 1966 J. Lepid. Soc. 20(3): 169-170, pl. 3, top row ♀ D&V (holotype), bottom row ♂ D&V.

Original Combination: *Megathymus yuccae maudae*

Type Locality: "California, San Bernardino County, 21 miles north of Essex, on Cima Road in Providence Mountains"

Types: Holotype in PMNH.

i. *Megathymus yuccae harbisoni* J. Emmel & T. Emmel, 1998

Syst. W. N. Am. Butterflies (64): 763-764, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Megathymus yuccae harbisoni*

Type Locality: "California: San Diego County; 1 mile west of Scissors Crossing"

Types: Holotype in SDMC.

146. *Megathymus ursus* Poling, 1902

a. *Megathymus ursus ursus* Poling, 1902

Entomol. News 13(4): 97-98, pl. 4; this figure reproduced by W. Holland (1931), Butterfly Book (rev. ed.): pl. 72, fig. 1 ♂ D.

Original Combination: *Megathymus ursus*

Type Locality: "Pinal County, Arizona"; defined as "Santa Catalina Mountains, west of Redington, Pima Co., Arizona" by H. Freeman (1969), J. Lepid. Soc. 23 (suppl.1): 25.

Types: Holotype in USNM.

b. *Megathymus ursus deserti* R. Wielgus, J. Wielgus & D. Wielgus, 1972

Bull. Allyn Mus. (9): 1-4, figs. 1 ♀ D, 2 ♀ V (holotype); 3 ♂ D, 4 ♂ V.

Original Combination: *Megathymus ursus deserti*

Type Locality: "Arizona, Maricopa County, 1/2 - 1-1/2 miles north of Camp Creek on road to Seven Springs, 3500-3680 feet elevation"

Types: Holotype in LACM.

c. *Megathymus ursus violae* D. Stallings & Turner, 1956



- Lepid. News 10(1/2): 4-5, pl. 2, top row ♀ D&V (holotype), 2nd row ♂ D&V, lower row ♂&♀ genitalia.
Original Combination: *Megathymus violae*
Type Locality: "Carlsbad Caverns National Park in the Guadeloupe Mts., New Mexico" [Eddy County]
Types: Holotype in PMNH.
147. **Megathymus cofaqui** (Strecker, 1876)
 a. **Megathymus cofaqui cofaqui** (Strecker, 1876)
 Proc. Acad. Nat. Sci. Philad. 28(7): 148-150; figured by Strecker [1878], Lepid. Rhop. Het. (15): pl. 15, fig. 2 ♀ D&V (holotype).
Original Combination: *Ægiale Cofaqui*
Type Locality: "Georgia"; defined as "somewhere in northern Florida near Georgia" by H. Freeman (1963), J. Res. Lepid. 2(2): 140; subsequently defined as "Burke County, Georgia" by Gatrell (1999), Tax. Rep. Int. Lepid. Surv. 1(4): 3.
Types: Holotype in FMNH; figured by W. Barnes and McDunnough (1912), Contr. Nat. Hist. Lepid. N. Am. 1(3): 36, and Gatrell (1999), Tax. Rep. Int. Lepid. Surv. 1(4): fig. 5 ♀ D.
 = *harrisi* H. Freeman, 1955
 Am. Mus. Novit. (1711): 2, figs. 3 ♂ D, 4 ♂ V (holotype); 7 ♀ D, 8 ♀ V, 27 ♂ genitalia, 28 ♀ genitalia.
Original Combination: *Megathymus harrisi*
Type Locality: "Stone Mountain, Georgia" [De Kalb County]
Types: Holotype in AMNH.
 This synonymy determined by Gatrell (1999), Tax. Rep. Int. Lepid. Surv. 1(4): 3.
- b. **Megathymus cofaqui slotteni** Gatrell, 1999
 Tax. Rep. Int. Lepid. Surv. 1(4): 4-5, figs. 1 ♂ D, 2 ♀ D (holotype).
Original Combination: *Megathymus cofaqui slotteni*
Type Locality: "Vicinity of Williston, Levy County, Florida"
Types: Holotype in MGCL.
148. **Megathymus streckeri** (Skinner, 1895)
 a. **Megathymus streckeri streckeri** (Skinner, 1895)
 Can. Entomol. 27(7): 179; figured by Skinner (1900), Entomol. News 11(4): pl. 2, fig. 24 ♂ D.
Original Combination: *Aegiale Streckeri*
Type Locality: "Texas...probably from Arizona...Colorado"; defined as "Petrified Forest area, Arizona" by H. Freeman (1963), J. Res. Lepid. 2(2): 141. [Apache County]
Types: Syntypes in FMNH and (#7053) CMNH.
- b. **Megathymus streckeri texana** W. Barnes & McDunnough, 1912
 Contr. Nat. Hist. Lepid. N. Am. 1(3): 39-40, no. 2, pl. 2, fig. 9 ♀ (holotype).
Original Combination: *Megathymus streckeri texana*
Type Locality: "South Texas (Dallas, San Antonio)"; defined as "Kerrville, Texas" by H. Freeman (1963), J. Res. Lepid. 2(2): 141. [Kerr County]
Types: Syntypes in USNM.
 = *albocincta* W. Holland, 1930



Ann. Carnegie Mus. 19(3): 159-160.

Original Combination: *Megathymus albocincta*

Type Locality: Stated to be "southwestern Texas" by W. Holland (1931), Butterfly Book (rev. ed.): 402.

Types: Holotype in CMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 71, fig. 17 ♂ D (holotype), 18 ♂ D (paratype).

c. *Megathymus streckeri leussleri* W. Holland, 1931

Ann. Carnegie Mus. 20(2): 262-263; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 72, figs. 10 ♂ D (holotype), 12 ♀ D (allotype).

Original Combination: *Megathymus leussleri*

Type Locality: "sandhills of Nebraska"; defined as "Valentine, Nebraska" by H. Freeman (1944), Entomol. News 55(4): 104; redefined as "Sand Hills near Valentine, Cherry Co., Nebraska" by H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 24.

Types: Holotype in CMNH.

Genus *Stallingsia* H. Freeman, 1959

Lepid. News 12(3/4): 87-88. Type-species: *Megathymus maculosus* H. Freeman, 1955, Am. Mus. Novit. (1711): 10-11, figs. 21-24, 32-33, by original designation.

149. *Stallingsia maculosus* (H. Freeman, 1955)

Am. Mus. Novit. (1711): 10-11, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V, 32 ♂ genitalia, 33 ♀ genitalia.

Original Combination: *Megathymus maculosus*

Type Locality: "Kingsville, Texas" [Kleberg County]

Types: Holotype in AMNH.

Recorded in older literature as *smithi* H. Druce, 1896, Biol. centr.-amer., Lepid. Het. 2(131): 320, a Mexican congener.

Genus *Erionota* Mabille, 1878

Annls. Soc. Entomol. Belg. 21: 34. Type-species: *Papilio thrax* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 794, no. 260, by designation of E. Watson (1893), Proc. Zool. Soc. Lond. 1893(1): 72, 86.

150. *Erionota thrax* (Linnaeus, 1767)

a. *Erionota thrax thrax* (Linnaeus, 1767)

Syst. Nat. (ed. 12) 1(2): 794, no. 260.

Original Combination: *P[apilio]. P[lebejus Urbicola]. Thrax*

Type Locality: "Java"

Types: Lectotype in LSUK, designated by Corbet and Pendlebury (1956), Butterflies Malay Pen.: pl. 29, fig. 8. Opler and A. Warren (2002), Sci. Names List Butterflies N. A.: 45, substituted the name *Erionota torus* Evans, 1941, for this species, as it occurs in Hawaii. As explained in the excluded species appendix, this was based on a misidentification of *Erionota thrax* by Kawazoé and Wakabayashi (1976), Col. Illus. Butterflies Japan: 310-311.

Genus *Perichares* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 81. Type-species: *Papilio coridon* Fabricius, 1775, Syst. Entomol.: 533, no. 385 (= *Papilio philetes* Gmelin, [1790], Syst. Nat. (ed. 13) 1(5): 2364, no. 842; homonym), by original designation.

151. *Perichares adela* (Hewitson, 1867)



Ill. exot. Butterflies 4(62): [105], pl. *Hesperia* I, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V.

Original Combination: *Hesperia Adela*

Type Locality: "Rio de Janeiro" [Brasil]

Types: Syntypes in BMNH.

Burns et al. (2008), Proc. Nat. Acad. Sci. USA 105(17): 6350-6355, determine that this is a species distinct from *Perichares philetes* (Gmelin, [1790]).

= *dolores* (Reakirt, 1868)

Proc. Acad. Nat. Sci. Philad. 20(1/2): 87-88, no. 52.

Original Combination: *Goniloba dolores*

Type Locality: "Mexico, near Vera Cruz" [Veracruz]

Types: Location of type(s) not known, not at ANSP.

= *marmorata* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 81-82, no. 3.

Original Combination: *P[erichares]. marmorata*

Type Locality: "Venezuela"

Types: Syntype (#15315) in MCZ.

Tribe **Thymelicini** Tutt, 1905

Nat. Hist. Brit. Butterflies 1(1): 90, 91 (as "Thymelicinae" and "Thymelididi"). Type-genus: *Thymelicus* Hübner, [1819], Verz. bekannt. Schmett. (8): 113.

Genus **Ancyloxypha** C. Felder, [1863]

Verh. zool.-bot. Ges. Wien 12(1): 477. Type-species: *Hesperia numitor* Fabricius, 1793, Entomol. Syst. 3(1): 324, no. 228, by original designation. This name has frequently been misspelled, most commonly as "*Ancyloxipha*."

152. **Ancyloxypha numitor** (Fabricius, 1793)

Entomol. Syst. 3(1): 324, no. 228; cited Jones' Icones 6: pl. 74, fig. 2; figured by Donovan (1800), Epit. Ins. India: pl. [44], fig. 3 (a copy from Jones' Icones).

Original Combination: *H[esperia]. R[uralis]. Numitor*

Type Locality: "Indiis"; stated to be "certainly the eastern U.S." by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 30.

Types: Type(s) lost, name based on Jones' figure.

= *bion* (Fabricius, 1798)

Entomol. Syst. Suppl.: 432.

Original Combination: *H[esperia]. U[rbicola]. Bion*

Type Locality: "America meridionali"; stated as "certainly the eastern U.S." by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 30.

Types: Syntype in ZMUC.

= *puer* (Hübner, 1823)

Zutr. Samml. exot. Schmett. 2: pl. [48], figs. 275 ♂ D, 276 ♂ V [1821]; 17, no. 138 (1823, name given).

Original Combination: *Thymelicus Puer*

Type Locality: "Florida"

Types: Type(s) probably lost.

= *marginatus* (T. Harris, 1862)

Ins. injur. Veget. (3rd ed.): 308, fig. 131 ♂ D&V.

Original Combination: *Heteropterus marginatus*

Type Locality: "Massachusetts" implied from the title of the first edition.

Types: Syntypes (#26353) in MCZ.

= *longleyi* French, 1897



Can. Entomol. 29(4): 80.

Original Combination: *Ancyloxypha Longleyi*

Type Locality: "Ridgeland, near Chicago" [Iroquois County, Illinois]

Types: Holotype in USNM.

153. ***Ancyloxypha arene*** (W. H. Edwards, 1871)
Trans. Am. Entomol. Soc. 3(3/4): 205, 214-215, no. 18.
Original Combination: *Heteropterus Arene*
Type Locality: "Arizona"; neotype from "near Tucson." [Pima County, Arizona]
Types: Neotype (#33628) in USNM, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(1): 267, fig. 5 ♂ D&V. This specimen is the holotype of *myrtis* (see below).
= ‡*myrtis* (W. H. Edwards, 1882)
Papilio 2(2): 26.
Original Combination: *Copaeodes Myrtis*
Type Locality: "near Tucson" [Pima County, Arizona]
Types: Holotype (#33628) in USNM.
A junior objective synonym of *Ancyloxypha arene* (W. H. Edwards, 1871).
= *euphrasia* (Plötz, 1884)
Stettiner Entomol. Ztg. 45(4-6): 166, no. 63; cited unpublished pl. 773.
Original Combination: [*Apaustus*] *Euphrasia*
Type Locality: "Mexiko"
Types: Types in ZMHB.
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 146, determined this synonymy through an examination of the unpublished drawing made by Plötz.
= *leporina* (Plötz, 1884)
Stettiner Entomol. Ztg. 45(4-6): 166, no. 64; cited unpublished pl. 774.
Original Combination: [*Apaustus*] *Leporina*
Type Locality: "Mexiko"
Types: Type(s) may be in ZMHB or lost.
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 146, determined this synonymy through an examination of the unpublished drawing made by Plötz.
= *isidorus* (Plötz, 1884)
Stettiner Entomol. Ztg. 45(7-9): 287, no. 11; cited unpublished pl. 780.
Original Combination: [*Thymelicus*] *Isidorus*
Type Locality: "Mexiko"
Types: Types in ZMHB.

Genus ***Oarisma*** Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 75. Type-species: *Hesperia powesheik* Parker, 1870, Am. Entomol. Bot. 2(9): 271, by original designation.

- = *Paradopaea* Godman, 1900
In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 3(156): pl. 92, figs. 23-29. Type-species: *Hesperia garita* Reakirt, 1866, Proc. Entomol. Soc. Philad. 6(1): 150-151, by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 96.

154. ***Oarisma poweshiek*** (Parker, 1870) (emended)

Am. Entomol. Bot. 2(9): 271-272.

Original Combination: *Hesperia Powesheik*

Type Locality: "a grassy prairie slope, at Grinnell, Iowa"
[Poweshiek County]

Types: Location of type(s) not known.

This name is emended since it is clearly stated in the text that it was named for the County and the native American. This has been done by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 31, and Layberry *et al.* (1998), Butterflies Can.: 48.

155. **Oarisma garita** (Reakirt, 1866)

a. **Oarisma garita garita** (Reakirt, 1866)

Proc. Entomol. Soc. Philad. 6(1): 150-151.

Original Combination: *Hesperia Garitá*

Type Locality: "Rocky Mountains, Colorado Terr."; suggested to be "Mts. W. of Denver Colo." by Scott (2008), Papilio (n.s.) 19: 30.

Types: Syntype(s) in FMNH.

= *hylax* (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 266, 274, no. 16.

Original Combination: *Thymeticus* [*sic!*] *Hylax*

Type Locality: "Colorado"; defined as "South Park and at Twin Lakes, Colorado" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 162; further defined as "vicinity of Twin Lakes, Lake County, Colorado" by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(1): 269.

Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(1): 269-270, fig. 6 ♂ D&V.

156. **Oarisma edwardsii** (W. Barnes, 1897)

Can. Entomol. 29(2): 42.

Original Combination: *Thymelicus Edwardsii*

Type Locality: "near Denver, Colorado" This species is not currently known from the Denver area or Platte River drainage; the type probably came from the Arkansas River drainage (A. Warren pers. comm. 2006). Suggested to be "Hardscrabble Can., Wet Mts., Custer Co. Colo. by Scott (2008), Papilio (n.s.) 19: 30.

Types: Holotype in USNM.

Genus **Copaeodes** Speyer, 1877

In: W. H. Edwards, Trans. Am. Entomol. Soc. 6(1): 49, 64. Type-species: *Heteropterus procris* W. H. Edwards (1871), Trans. Am. Entomol. Soc. 3(3/4): 215 (= *Ancyloxipha* [*sic!*] *aurantiaca* Hewitson, 1868, Descr. one hundred new spec. Hesp. (2): 45; synonym), by designation of W. F. Kirby [1879], Zool. Rec. 14(1877)(Ins.): 139.

157. **Copaeodes aurantiaca** (Hewitson, 1868)

Descr. one hundred new spec. Hesp. (2): 45, no. 1.

Original Combination: *Ancyloxipha* [*sic!*] *aurantiaca*

Type Locality: Not stated.

Types: Holotype in BMNH.

Species-genus gender conformation is *aurantiacus*.

= *waco* (W. H. Edwards, 1868)

Trans. Am. Entomol. Soc. 2(2): 122.

Original Combination: *Hesperia Waco*



- Type Locality:** "Texas"; neotype from "Dallas, Texas." [Dallas County]
Types: Neotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 271, fig. 7 ♂ D&V.
- = *simplex* (R. Felder, 1869)
 Verh. zool.-bot. Ges. Wien 19: 476, no. 31.
Original Combination: *Ancyloxypha simplex*
Type Locality: "Cordoba, Potrero" [Veracruz, Mexico]
Types: Holotype in NMW.
- = *procris* (W. H. Edwards, 1871)
 Trans. Am. Entomol. Soc. 3(3/4): 205, 215, no. 19.
Original Combination: *Heteropterus Procris*
Type Locality: "near Waco, Texas" [McLennan County]
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 274, fig. 9 ♂ D&V.
 The type series included both *C. aurantiaca* and *C. minima*. F. Brown and L. Miller (1977), *ibid.*, selected a specimen of the former as lectotype.
- = *macra* (Plötz, 1884)
 Stettiner Entomol. Ztg. 45: 284, no. 2; cited unpublished pl. 1500 (nachtrag).
Original Combination: [*Thymelicus*] *Macra*
Type Locality: "Nord-Amerika"
Types: Type(s) may be in ZSMC, ZMHB, or lost.
- = *candida* W. G. Wright, 1890
 Proc. Calif. Acad. Sci. (2)3(4): 34; figured by W. G. Wright (1905), Butterflies W. Coast: pl. 30, figs. 411 ♀ [not ♂] D, 411b ♂ [not ♀] D, 411c ♂ V.
Original Combination: *Copaeodes candida*
Type Locality: "cañons in the foothills of southwestern California"
Types: Lectotype (#3227) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 38.
158. **Copaeodes minima** (W. H. Edwards, 1870)
 Trans. Am. Entomol. Soc. 3(2): 189, 196, no. 14.
Original Combination: *Hesperia Minima*
Type Locality: "Waco, Texas" [McLennan County]
Types: Holotype in CMNH; figured by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): fig. 8 ♂ D&V.
 Species-genus gender conformation is *minimus*.
- = *rayata* W. Barnes & McDunnough, 1913
 Contr. Nat. Hist. Lepid. N. Am. 2(3): 100, pl. 3, figs. 1 ♂ D, 2 ♀ D.
Original Combination: *Copaeodes rayata*
Type Locality: "San Benito, Texas" [Cameron County]
Types: Syntype in USNM.
 Durden (1982), J. Lepid. Soc. 36(1): 9, claimed this is a winter form, genitally distinct from *minima*, but this was disproved by Austin et al. (2008), Florida Entomol. 91(4): 636-642.
 ‡"singularis" (Plötz, 1884)
 Stettiner Entomol. Ztg. 45(7-9): 284, under no. 1.
Original Combination: [*Thymelicus*] *Waco* [synonym] *Singularis*

Plötz introduced "*Thymelicus singularis* (Herrich-Schäffer manuscript)" as a synonym of *waco* without description or indication; a *nomen nudum*.



Genus **Adopaeoides** Godman, 1900

In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(156): 470. Type-species: *Apaustus prittwitzi* Plötz, 1884, Stettiner Entomol. Ztg. 45(4-6): 165, no. 61, by designation of I.C.Z.N. *Opinion* 825; the same *Opinion* placed this name on the *Official Index of Generic Names in Zoology* as name no. 1766.

- = ‡*Neadopaea* Hayward, 1941
Revta. Mus. La Plata, Zool. (n.s.) 2(14): 285. Type-species: *Apaustus prittwitzi* Plötz, 1884, Stettiner Entomol. Ztg. 45(4-6): 165, no. 61, by original designation. A junior objective synonym of *Adopaeoides* Godman, 1900.

- 159. **Adopaeoides prittwitzi** (Plötz, 1884)
Stettiner Entomol. Ztg. 45(4-6): 165, no. 61; cited unpublished pl. 771.
Original Combination: [*Apaustus*] *Prittwitzii*
Type Locality: "Mexiko"
Types: Type(s) may be in ZSMC, ZMHB, or lost.
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 146, determined that this is "*Adopaeoides simplex*, Godm. (Nec Feld.)" through an examination of the unpublished drawing made by Plötz. Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 309, concurred. I.C.Z.N. *Opinion* 825 placed this name on the *Official List of Specific Names in Zoology* as name no. 2209.

Genus **Thymelicus** Hübner, [1819]

Verz. bekannt. Schmett. (7): 113. Type-species: *Papilio acteon* Rottemburg, 1775, Naturforscher 6: 30-31, no. 18, by designation of Butler (1870), Entomol. Mon. Mag. 7(76): 94.

- = *Adopoea* Billberg, 1820
Enum. Ins. Mus. Billb.: 81. Type-species: *Papilio linea* [Denis & Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 160, no. 5 (= *Papilio sylvestris* Poda, 1761, Ins. Mus. graec.: 79, no. 51; synonym), by monotypy.
- = ‡*Pelion* W. F. Kirby, 1858
List Brit. Rhop.: [3]. Type-species: *Papilio linea* [Denis & Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 160, no. 5 (= *Papilio sylvestris* Poda, 1761, Ins. Mus. graec.: 79; synonym), by monotypy. A junior objective synonym of *Adopoea* Billberg, 1820. McHenry (1962), J. Lepid. Soc. 16(2): 104, examined Kirby's rare document; this arrangement relies on his appraisal.
- = ‡*Doricha* Moore, 1883
Proc. Zool. Soc. Lond. 1883(3): 317. Type-species: *Papilio sylvestris* Poda, 1761, Ins. Mus. graec.: 79, by original designation. Preoccupied by *Doricha* Reichenbach, 1853, J. Ornithologie 1(Aufzählung Colibris): 12.
- 160. **Thymelicus lineola** (Ochsenheimer, 1808)
Most of the Palearctic synonymy of this species is not listed. Asou and Sekiguchi (2002), Trans. Lepid. Soc. Japan 53(2): 103-109, detailed the close relationship between Japanese, American and European populations of this species.
 - a. **Thymelicus lineola lineola** (Ochsenheimer, 1808)
Schmett. Europ. 1(2): 230, no. 19.

Original Combination: *Pap[ilio]. Lineola*

Type Locality: "Germania"

Types: Type(s) may be in HHNM or lost.

= *virgula* (Hübner, [1813])

Samml. europ. Schmett. 1: pl. 130, figs. 660 ♂ D, 661 ♂ V, 662 ♀ D, 663 ♀ V [1813]; Nachtr.: 5 [1824].

Original Combination: [*Papilio*] *Virgula*

Type Locality: Not stated.

Types: Type(s) may be in NMW, but probably lost.

= *kirbyi* (Reed, 1877)

An. Univ. Chile 51(9): 722.

Original Combination: *Pamphila Kirbyi*

Type Locality: Not stated.

Types: Holotype in MHNS.

Hayward (1955), Entomol. 88(1110): 262, determined this synonymy.

= *ludovicae* (Mabille, 1883)

Annls. Soc. Entomol. Belg. 27: 118; (c. r.)(31): lxviii-lxix, in reference to p. 118.

Original Combination: *Pamphila Ludovicae*

Type Locality: "E Gallia in Montibus Arvernicae...et Pyrenaeis" [France]

Types: Syntypes in MNHP and BMNH.

= ‡"pallida" Tutt, 1896

Brit. Butterflies: 136.

Original Combination: [*Thymelicus lineola*]

Ab. pallida

Type Locality: not stated; "Britain" implied from the title of the book.

Types: Location of type(s) not known, possibly BMNH.

Tribe **Calpodini** A. Clark, 1948

Proc. Biol. Soc. Wash. 61: 81. Type-genus: *Calpodes* Hübner, [1819], Verz. bekannt. Schmett. (7): 107. Proposed by indication (see Code Article 13.2.1). Voss (1952), Ann. Entomol. Soc. Am. 45(2): 255, also proposed this name; he did not cite Clark, but established *Calpodes* as the type-genus, thus validating Clark's authorship.

Genus **Calpodes** Hübner, [1819]

Verz. bekannt. Schmett. (7): 107. Type-species: *Papilio ethlius* Stoll, 1782, Uitl. Kapellen 4(33): 212, pl. 392, figs. A, B; (34): 249 (index), by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 82.

161. **Calpodes ethlius** (Stoll, 1782)

Uitl. Kapellen 4(33): 212, pl. 392, figs. A ♂ D, B ♂ V; (34): 249 (index).

Original

Combination: *Pap[ilio]. Pleb[ejus]. Urbicol[a]. Ethlius*

Type Locality: "Surinamen" "Suriname"

Types: Type(s) probably lost (Raye de Breukelewaert collection, in RMNH?).

= *chemnis* (Fabricius, 1793)

Entomol. Syst. 3(1): 331, no. 257; cited Jones' Icones 6: pl. 86, fig. 2; figured by Donovan (1802), Epit. Ins. India: pl. [49], fig. 1 (a copy from Jones' Icones).

Original Combination: *H[esperia]. U[rbicola]. Chemnis*

Type Locality: "Indiis"; suggested to be "Jamaica" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 50.

Types: Type(s) probably lost.

- = *olynthus* (Boisduval & Le Conte, [1837])
Hist. Lépid. Amér. sept. (25): pl. 75, figs. 1 ♂ D, 2 ♂ V.

Original Combination: *Eudamus* ? *Olynthus*

Type Locality: Not stated (there is no text); "l'Amérique septentrionale" implied from the title of the book.

Types: Types were the specimens upon which Émile Blanchard based his illustrations, probably from Boisduval's collection (USNM and/or BMNH).

Genus **Panoquina** Hemming, 1934

Entomol. 67(849): 38. Type-species: *Hesperia panoquin* Scudder, 1863, Proc. Essex Inst. 3: 178-179, no. 81, as replacement name. Proposed to replace *Prenes* Scudder, 1872, preoccupied (Code Articles 60.3, 67.8).

- = ‡*Prenes* Scudder, 1872
4th Ann. Rep. Peabody Acad. Sci. (1871): 81. Type-species: *Hesperia panoquin* Scudder, 1863, Proc. Essex Inst. 3: 178-179, no. 81, by original designation. Preoccupied by *Prenes* Gistel, 1848, Nat. Thierr.: 10.

162. **Panoquina panoquin** (Scudder, 1863)

Proc. Essex Inst. 3: 178-179, no. 81.

Original Combination: *Hesperia Panoquin*

Type Locality: "Conn." [Connecticut]

Types: Syntypes may be in MCZ.

- = *ophis* (W. H. Edwards, 1871)
Trans. Am. Entomol. Soc. 3(3/4): 205, 216, no 21.

Original Combination: *Hesperia Ophis*

Type Locality: "Apalachicola, Fla."; neotype from "St. George's Island [sic!], Franklin County, Florida."

Types: Neotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 62, fig. 25 ♂ D&V.

‡"cochles" (Scudder, 1889)

Butterflies E. U. S. & Can. 3(12): 1867.

Original Combination: [*Prenes panoquin*]

= *Hesperia cochles*

Proposed as a Latreille manuscript name without a description or indication; a *nomen nudum*.

‡"wimico" (Plötz, 1882)

Stettiner Entomol. Ztg. 44(1-3): 55, under no. 361.

Original

Combination: [*Hesperia*] *Panoquin* [synonym] *Wimico*

This name was listed without a description or indication; a *nomen nudum*.

163. **Panoquina panoquinoides** (Skinner, 1891)

a. **Panoquina panoquinoides panoquinoides** (Skinner, 1891)

Entomol. News 2(9): 175; figured by Skinner (1900), Entomol. News 11(4): pl. 2, fig. 26 ♂ D.

Original Combination: *P[amphila]. panoquinoides*

Type Locality: "Key West, Fla. and Texas" [Monroe County, Florida]

- Types:** Syntype (#7103, labeled "holotype", from "Key West, Fla.") in CMNH; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 54, fig. 23 ♂ D.
164. **Panoquina errans** (Skinner, 1892)
Entomol. News 3(7): 174-175.
Original Combination: *Pamphila errans*
Type Locality: "California...Texas"
Types: Syntype (#7102, labeled "holotype", from "Cal.") in CMNH; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 54, fig. 24 ♂ D.
MacNeill (1975), in: Howe, Butterflies N. Am.: 428-429, L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 51, and Opler and A. Warren (2002), Sci. Names List Butterflies N. A.: 15, considered *P. errans* to be a species-level taxon.
165. **Panoquina ocola** (W. H. Edwards, 1863)
a. **Panoquina ocola ocola** (W. H. Edwards, 1863)
Proc. Entomol. Soc. Philad. 2(1): 14, 20, no. 10; (4): pl. 11, fig. 4 ♂ D.
Original Combination: *Hesperia Ocola*
Type Locality: "Georgia; Florida; Texas"; neotype from "Fla."
Types: Neotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 61, fig. 24 ♂ D&V.
= *stratyllis* (Burmeister, 1878)
Descr. phys. Rép. Argentine 5(Lépid.)(1): 276, no. 3.
Original Combination: *Pamphila Stratyllis*
Type Locality: "Corrientes" [Argentina]
Types: Syntype in MACN.
= *heterospila* (Mabille, 1878)
Petites Nouv. Entomol. 2(198): 238, no. 54.
Original Combination: *Pamphila heterospila*
Type Locality: "Peruvia"
Types: Type(s) may be in MNHP (Mabille collection).
= *ortygia* (Möschler, 1883)
Verh. zool.-bot. Ges. Wien 32: 328.
Original Combination: *P[amphila]. Ortygia*
Type Locality: "dem Innern"; "Surinam" implied from the title of the paper.
Types: Holotype in ZMHB.
166. **Panoquina lucas** (Fabricius, 1793)
Entomol. Syst. 3(1): 339, no. 290.
Original Combination: *H[esperia]. U[rbicola]. Lucas*
Type Locality: "Americae meridionalis Insulis"
Types: Lectotype in ZMUC, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 59.
= *sylvicola* (Herrich-Schäffer, 1865)
Corresp.-Bl. zool.-min. Ver. Regensburg 19(3/4): 55, no. 13.
Original Combination: [*Goniloba*] *sylvicola*
Type Locality: "Cuba" implied from the title of the paper.
Types: Lectotype in ZMHB, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 59.
= *woodruffi* F. Watson, 1937
Am. Mus. Novit. (906): 6.
Original Combination: *Panoquina sylvicola woodruffi*

- Type Locality:** "Aibonito, Puerto Rico"
Types: Holotype in AMNH.
167. **Panoquina hecebolus** (Scudder, 1872)
 4th Ann. Rep. Peabody Acad. Sci. (1871): 81, no. 3.
Original Combination: *P[renes]. Hecebolus*
Type Locality: "Tehuantepec" [Oaxaca, Mexico]
Types: Syntype (#15312) in MCZ.
 = *parilis* (Mabille, 1891)
 Annls. Soc. Entomol. Belg. 35(c.r.)(18): clxxi.
Original Combination: *Pamphila parilis*
Type Locality: "Chiriqui, Honduras" [Panama and Honduras]
Types: Syntypes in ZMHB.
168. **Panoquina evansi** (H. Freeman, 1946)
 Entomol. News 57(8): 186-187, fig. 2 ♂ genitalia; figured by H. Freeman (1950), Field & Lab. 18(1): fig. 1 ♂ D&V.
Original Combination: *Calpodes evansi*
Type Locality: "Pharr, Texas" [Hidalgo County]
Types: Holotype in AMNH.
 Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 407, and Scott (1986), Butterflies N. Am.: 468, considered this taxon a subspecies of *Panoquina fusina* Hewitson, 1868, Descr. one hundred new spec. Hesp. (2): 30, without justification.

Tribe **Anthoptini** A. Warren, 2009

In: Warren *et al.*, Syst. Entomol. 34(3): 479, fig. 4, 482, 498. Type-genus: *Anthoptus* Bell, 1942, Am. Mus. Novit. (1205): 7.

Genus **Synapte** Mabille, 1904

In: Wytzman, Gen. Ins. (17b): 133. Type-species: *Carystus salenus* Mabille, 1883, Annls. Soc. Entomol. Belg. 27(c.r.)(31): lx-lxi, by monotypy.

- = ‡*Godmania* Skinner & Ramsden, 1924
 Proc. Acad. Nat. Sci. Philad. 75: 321. Type-species: *Goniloba malitiosa* Herrich-Schäffer, 1865, Corresp. Bl. zool.-min. Ver. Regensburg 19(3/4): 54, no. 11, by monotypy. Preoccupied by *Godmania* Horvath, 1919, Ann. Mus. Hungar. 17: 211, 222.
169. **Synapte pecta** Evans, 1955
 Cat. Am. Hesp. Brit. Mus. (4): 51.
Original Combination: [*Synapte malitiosa*] *pecta*
Type Locality: "Mexico"
Types: Holotype in BMNH.
 A. Warren *et al.* (1998), J. Lepid. Soc. 52(1): 53, and A. Warren (2000), in: Llorente *et al.*, Biodivers. Taxon. Biogeogr. Artrópod. Méx. 2: 555, among other recent authors, considered *pecta* to be a species-level taxon.
170. **Synapte salenus** (Mabille, 1883)
 Annls. Soc. Entomol. Belg. 27(c.r.)(31): lx-lxi.
Original Combination: *Carystus Salenus*
Type Locality: "Colombie"; this locality was doubted by Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 53.
Types: Holotype in BMNH.
171. **Synapte shiva** Evans, 1955
 Cat. Am. Hesp. Brit. Mus. (4): 53.
Original Combination: [*Synapte syraces*] *shiva*
Type Locality: "Dos Arroyas, Guerrero, 1000 feet" [Mexico]

Types: Holotype in BMNH.

A. Warren *et al.* (1998), J. Lepid. Soc. 52(1): 53, and A. Warren (2000), *in*: Llorente *et al.*, Biodiver. Taxon. Biogeogr. Artrópod. Méx. 2: 556, among other recent authors, considered *S. syraeces* (Godman, 1901), *in*: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(161): 595-596, no. 3; 3(163): pl. 103, figs. 1 ♂ D, 2 ♂ V, 3 ♂ genitalia, and *S. shiva* to be distinct species-level taxa.

Genus **Corticea** Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 46, 63. Type-species: *Hesperia corticea* Plötz, 1882, Stettiner Entomol. Ztg. 44(1-3): 56-57, no. 369, by original designation.

- 172. Corticea corticea** (Plötz, 1882)
Stettiner Entomol. Ztg. 44(1-3): 56-57, no. 369; cited unpublished pl. 591.
Original Combination: [*Hesperia*] *Corticea*
Type Locality: "Laguayra" [Venezuela]
Types: Holotype in ZMHB.

Tribe **Moncini** A. Warren, 2008

In: Warren *et al.*, Cladistics 24(5): 4, 8, 17. Type-genus: *Monca* Evans, 1955, Cat. Am. Hesp. Brit. Mus. (4): 87, 124.

Genus **Amblyscirtes** Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 75. Type-species: *Hesperia vialis* W. H. Edwards, 1862, Proc. Acad. Nat. Sci. Philad. 14(1/2): 58, no. 8, by original designation. Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 386-393, and H. Freeman (1973), J. Lepid. Soc. 27(1): 40-57, arranged this genus into groups. Burns (1990), J. Lepid. Soc. 44(1): 11-27, rearranged some of these groups and commented on the phylogenetic position of the genus.

- = *Stomyles* Scudder, 1872
4th Ann. Rep. Peabody Acad. Sci. (1871): 76. Type-species: *Pyrgus textor* Hübner, [1831], Zutr. Samml. exot. Schmett. 3: pl. [89], figs. 515, 516; 28, no. 258 (= *Hesperia aesculapius* Fabricius, 1793, Entomol. Syst. 3(1): 347-348, no. 321; synonym), by original designation.
- = *Mastor* Godman, 1900
In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(160): 567. Type-species: *Mastor anubis* Godman, 1900, *in*: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(160): 568; 3: pl. 100, figs. 32 ♂ D, 33 ♂ V, 34 ♂ FW venation, 35 ♂ genitalia, by original designation.
- = *Epiphyes* Dyar, 1905
J. N. Y. Entomol. Soc. 13(3): 132. Type-species: *Pamphila carolina* Skinner, 1892, Entomol. News 3(9): 222-223, by original designation.

exoteria group Evans, 1955
Cat. Am. Hesp. Brit. Mus. (4): 386.

- 173. Amblyscirtes exoteria** (Herrich-Schäffer, 1869)
Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 196, no. 54.
Original Combination: [*Goniloba*] *exoteria*
Type Locality: Not stated.
Types: Holotype in ZMHB.
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 143, determined this synonymy through an examination of the unpublished drawing made by Plötz (pl. 572).

- = *nanno* W. H. Edwards, 1882
Papilio 2(8): 142-143.
Original Combination: *Amblyscirtes Nanno*
Type Locality: "Fort Grant and in Graham Mountains, Arizona" implied from the title of the paper. [Graham County]
Types: Holotype in CMNH; figured by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): fig. 20 ♀ D&V.
- = *marcus* (Strand, 1909)
Int. Entomol. Z. 3(33): 176.
Original Combination: *Chapra marcus*
Type Locality: "Delagoa Bai" in error. [Africa]
Types: Holotype in ZMHB.
- 174. **Amblyscirtes cassus** W. H. Edwards, 1883
Papilio 3(4): 72-73.
Original Combination: *Amblyscirtes Cassus*
Type Locality: "Mt. Graham, Arizona" [Graham County]
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 52, fig. 18 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 51, fig. 31 ♂ D.
- 175. **Amblyscirtes aenus** W. H. Edwards, 1878
 - a. **Amblyscirtes aenus erna** H. Freeman, 1943
Entomol. News 54(1): 17-18.
Original Combination: *Amblyscirtes erna*
Type Locality: "Palo Duro Canyon, Texas" [Armstrong County]
Types: Holotype in AMNH.
Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 388, considered *erna* a synonym of *Amblyscirtes fluonia* Godman, 1900. Scott [1977], J. Res. Lepid. 15(2): 92, demonstrated that this taxon is conspecific with *A. aenus*.
 - b. **Amblyscirtes aenus aenus** W. H. Edwards, 1878
Field & Forest 3(7/8): 118.
Original Combination: *Amblyscirtes Aenus*
Type Locality: "Southern Colorado"; defined as "Hardscrabble Road, Pueblo County, Colorado, in the foothills of the Wet Mountains" by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 51.
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 51, fig. 17 ♂ D&V.
 - c. **Amblyscirtes aenus megamacula** Scott, 1998
Papilio (n.s.) 11: 6, fig. 13 ♂ D (holotype), 14 ♀ D.
Original Combination: *Amblyscirtes aenus megamacula*
Type Locality: "WSW Peña Blanca Lake, Santa Cruz Co. Ariz"
Types: Holotype in BMNH.
- 176. **Amblyscirtes linda** H. Freeman, 1943
Entomol. News 54(1): 19.
Original Combination: *Amblyscirtes linda*
Type Locality: "Hope Hill Farm, Faulkner Co., Arkansas"
Types: Holotype in AMNH.
- 177. **Amblyscirtes osleri** (Skinner, 1899)
Entomol. News 10(5): 112.

aesculapius group Evans, 1955
Cat. Am. Hesp. Brit. Mus. (4): 388.

- Original Combination:** *Pamphila oslari*
Type Locality: "Chimney Gulch, Colorado" [Jefferson County]
Types: Syntype (#7101) in CMNH; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 51, fig. 39 ♀ D.
- *178. **Amblyscirtes elissa** Godman, 1900
In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(158): 505, no. 4; 3: pl. 95, figs. 40 ♀ V, 41 ♂ genitalia.
Original Combination: *Amblyscirtes elissa*
Type Locality: "Mexico, Tierra Colorada, Rincon, Dos Arroyos, all in Guerrero"
Types: Syntypes in BMNH.
- a. **Amblyscirtes elissa arizonae** H. Freeman, 1993
Ann. Carnegie Mus. 62(4): 345-346, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.
Original Combination: *Amblyscirtes elissa arizonae*
Type Locality: "United States. Arizona: Santa Cruz Co., 0.5 mi W Kino Springs"
Types: Holotype in CMNH.
179. **Amblyscirtes hegon** (Scudder, 1863)
Proc. Essex Inst. 3: 176, no. 77.
Original Combination: *Hesperia Hego*
Type Locality: "White Mountains" [New Hampshire]
Types: Holotype (#8973) in MCZ.
As first reviser, W. F. Kirby (1871), Syn. Cat. diurn. Lepid.: 613, no. 16, selected *hegon* over *samoset* on the basis of line priority; Scudder applied the names *hegon* to the female and *samoset* to the male.
- = *samoset* (Scudder, 1863)
Proc. Essex Inst. 3: 176-177, no. 78; figured by Scudder (1889), Butterflies E. U. S. & Can. 3(10): pl. 10, fig. 1 ♀ D&V.
Original Combination: *Hesperia Samoset*
Type Locality: "Mass. and N. H." [Massachusetts and New Hampshire]
Types: Syntypes (#8974) in MCZ.
- = *nemoris* (W. H. Edwards, 1864)
Proc. Entomol. Soc. Philad. 2(4): 501, 507, no. 10; 4[1]: pl. 1, fig. 1 ♂ D&V.
Original Combination: *Hesperia Nemoris*
Type Locality: "Portsmouth, Ohio"; neotype from "3 miles east of Zaleski, Vinton County, Ohio, some 50 miles NE of Portsmouth."
Types: Neotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 50, fig. 16 ♂ D&V.
- = *argina* (Plötz, 1884)
Mitt. naturw. Ver. Neu-Vorpomm. 15: 22, no. 60.
Original Combination: [*Pyrgus (Syrichthus)*] *Argina*
Type Locality: "Brisbane", [Australia], in error.
Types: Type(s) may be in ZSMC or lost.
180. **Amblyscirtes texanae** E. Bell, 1927
Bull. Brooklyn Entomol. Soc. 22(4): 203.
Original Combination: *Amblyscirtes texanae*
Type Locality: "vicinity of Alpine, Brewster County, Texas"

- Types:** Holotype in AMNH.
181. **Amblyscirtes carolina** (Skinner, 1892)
Entomol. News 3(9): 222-223.
Original Combination: *Pamphila carolina*
Type Locality: "about one-half mile south of Hamlet, Richmond County, North Carolina, on the border of a small cane brake"
Types: Syntype(s) (#7096) in ANSP; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 46, fig. 36 ♂ D.
182. **Amblyscirtes reversa** F. Jones, 1926
Entomol. News 37(7): 197-198, pl. 9, figs. 3 ♂ D, 3a ♂ V, 4 ♀ V.
Original Combination: *Amblyscirtes carolina reversa*
Type Locality: "Suffolk, Virginia" [Nansemond County]
Types: Holotype (#7169) in CMNH.
183. **Amblyscirtes aesculapius** (Fabricius, 1793)
Entomol. Syst. 3(1): 347-348, no. 321; cited Jones' Icones 6: pl. 29, fig. 4 D&V.
Original Combination: *H[esperia]. U[rbicola]. Aesculapius*
Type Locality: "America boreali"
Types: Type(s) probably lost.
This species was widely known as *A. textor* (Hübner, [1831]), until Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 390, replaced *textor* with *aesculapius*, a senior, but obscure, generally unused name.
= *textor* (Hübner, [1831])
Zutr. Samml. exot. Schmett. 3: pl. [89], figs. 515 ♀ D, 516 ♀ V [1824]; 28, no. 258 [1831, name given].
Original Combination: *Pyrgus Textor*
Type Locality: "United States"
Types: Type(s) probably lost.
= *oneko* (Scudder, 1863)
Proc. Essex Inst. 3: 176, no. 76.
Original Combination: *Hesperia Oneko*
Type Locality: "Connecticut"
Types: Type(s) may be in MCZ.
= *wakulla* (W. H. Edwards, 1869)
Trans. Am. Entomol. Soc. 2(3): 311.
Original Combination: *Hesperia Wakulla*
Type Locality: "Apalachicola, Florida" [Franklin County]
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 49, fig. 15 ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 47, fig. 16 ♂ D.
- vialis group Evans, 1955
Cat. Am. Hesp. Brit. Mus. (4): 390.
184. **Amblyscirtes nereus** (W. H. Edwards, 1876)
Trans. Am. Entomol. Soc. 5(3/4): 207.
Original Combination: *Hesperia Nereus*
Type Locality: "South Apache"; defined as "between Camp Apache and the Gila River" by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 47. [Navajo-Apache counties, Arizona]
Types: Holotype in CMNH; figured by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): fig. 14 ♂ D&V.
This name was listed as "[*Pamphila*] *nereus*", without a description or indication, by W. H. Edwards (1875), in: Mead, Rep. Coll. diurn. Lepid. 5(Zool.): 794; a *nomen nudum*.

185. **Amblyscirtes nysa** W. H. Edwards, 1877
Can. Entomol. 9(10): 191-192.
Original Combination: *Amblyscirtes nysa*
Type Locality: "Texas"; lectotype from "Clifton, Bosque County, Texas."
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 46, fig. 13 ♀ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 51, fig. 25 ♀ D.
= *similis* (Strecker, [1878])
Lepid. Rhop. Het. (14): 131.
Original Combination: *Pamphila Similis*
Type Locality: Not stated; "vicinity of New Braunfels and San Antonio, Southwestern Texas" implied from the introductory text. [Comal and Bexar counties]
Types: Syntypes in FMNH.
186. **Amblyscirtes eos** (W. H. Edwards, 1871)
Trans. Am. Entomol. Soc. 3(3/4): 266, 276-277, no. 20.
Original Combination: *Hesperia Eos*
Type Locality: "Dallas, Texas" [Dallas County]
Types: Lectotype (#8972) in MCZ, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 42-43, fig. 10 ♂ D&V.
= *comus* (W. H. Edwards, 1876)
Trans. Am. Entomol. Soc. 5(3/4): 206-207.
Original Combination: *Hesperia Comus*
Type Locality: "Texas"; neotype from "Archer County, Texas."
Types: Neotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 44, fig. 11 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 51, fig. 27 ♂ D.
= *nilus* W. H. Edwards, 1878
Field & Forest 3(7/8): 118-119.
Original Combination: *Amblyscirtes Nilus*
Type Locality: "Texas"; defined as "Archer Co., Texas" by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 44.
Types: Holotype in CMNH; figured by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 45, fig. 12 ♂ D&V.
= *quinquemacula* (Skinner, 1911)
Entomol. News 22(9): 413.
Original Combination: *Pamphila quinquemacula*
Type Locality: "Las Cruces, New Mexico" [Dona Ana County]
Types: Holotype (#7107) in CMNH.
187. **Amblyscirtes vialis** (W. H. Edwards, 1862)
Proc. Acad. Nat. Sci. Philad. 14(1/2): 54, 58, no. 8.
Original Combination: *Hesperia vialis*
Type Locality: "Rock Island, Illinois; Lake Winnipeg"; neotype from "Perryton Twp., Mercer Co., Illinois."
Types: Neotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 41, fig. 9 ♂ D&V.
= *asella* (Herrich-Schäffer, 1869)
Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 203, no. 66.

tolteca group Burns, 1990
J. Lepid. Soc. 44(1): 15, 18.

- Original Combination:** [*Cobalus*] *asella*
Type Locality: Not stated.
Types: Type(s) probably in ZMHB.
188. ***Amblyscirtes alternata*** (Grote & Robinson, 1867)
Trans. Am. Entomol. Soc. 1(1): 3-4.
Original Combination: *Hesperia alternata*
Type Locality: "Atlantic District. (Georgia!)"
Types: Holotype may be in NYSM or AMNH.
= *meridionalis* Dyar, 1905
J. N. Y. Entomol. Soc. 13(3): 135.
Original Combination: *A[mblyscirtes]. meridionalis*
Type Locality: "Georgia and Florida"
Types: Syntypes may be in AMNH and/or USNM.
189. ***Amblyscirtes celia*** Skinner, 1895
Entomol. News 6(4): 113-114.
Original Combination: *Amblyscirtes celia*
Type Locality: "Blanco, Comal and Nueces Counties, Texas"
Types: Syntype (#7095, labeled as "holotype", from "New Braunfels, Tex.") in CMNH; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 51, fig. 30 ♂ D.
190. ***Amblyscirtes belli*** H. Freeman, 1941
Entomol. News 52(2): 50-51.
Original Combination: *Amblyscirtes belli*
Type Locality: "Lancaster and two miles west of Vickery, Dallas County, Texas"
Types: Holotype in AMNH.
- *191. ***Amblyscirtes tolteca*** Scudder, 1872
4th Ann. Rep. Peabody Acad. Sci. (1871): 76, no. 3.
Original Combination: *A[mblyscirtes]. Tolteca*
Type Locality: "Tehuantepec" [Oaxaca, Mexico]
Types: Syntype (#15322) in MCZ.
a. ***Amblyscirtes tolteca prenda*** Evans, 1955
Cat. Am. Hesp. Brit. Mus. (4): 389.
Original Combination: [*Amblyscirtes tolteca*] *prenda*
Type Locality: "Tucson, Arizona" [Pima County]
Types: Holotype in BMNH.
H. Freeman (1993), Ann. Carnegie Mus. 62(4): 343, detailed the subspecies-level status of this taxon.
192. ***Amblyscirtes phylace*** (W. H. Edwards, 1878)
Field & Forest 3(7/8): 117-118.
Original Combination: *Pamphila Phylace*
Type Locality: "Southern Colorado"; defined as "foothills of the Wet Mountains in Pueblo County, Colorado, probably along Hardscrabble Road" by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 40.
Types: Holotype in CMNH; figured by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): fig. 8 ♂ D&V, and W. Holland (1931), Butterfly Book (rev. ed.): pl. 51, fig. 32 ♂ D.
193. ***Amblyscirtes fimbriata*** (Plötz, 1882)
a. ***Amblyscirtes fimbriata fimbriata*** (Plötz, 1882)

phylace group Evans, 1955
Cat. Am. Hesp. Brit. Mus. (4): 392.

Stettiner Entomol. Ztg. 43(7-9): 322, no. 49; cited unpublished pl. 301.

Original Combination: [*Hesperia*] *Fimbriata*

Type Locality: "Mexico"

Types: Holotype (#5649) in ZMHB.

= *bellus* (W. H. Edwards, 1884)

Papilio 4(3): 57.

Original Combination: *Pamphila Bellus*

Type Locality: "southern Arizona"; suggested to be "vicinity of Tucson, Arizona" by F. Brown and L. Miller (1987), *Trans. Am. Entomol. Soc.* 113(1): 39. [Pima County]

Types: Holotype (#33625) in USNM; figured by F. Brown and L. Miller (1987), *Trans. Am. Entomol. Soc.* 113(1): fig. 7 ♂ D&V.

Amblyscirtes fimbriata is currently only known in Arizona from Cochise County, as noted by Bailowitz and Brock (1991), *Butterflies SE Ariz.*: 103.

Genus **Vidius** Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 87, 121. Type-species: *Narga vidius* Mabille, 1891, *Annls. Soc. Entomol. Belg.* 35(c.r.)(16): lxx, by original designation.

194. **Vidius perigenes** (Godman, 1900)

In: Godman & Salvin, *Biol. centr.-amer., Lepid. Rhop.* 2(160): 569, no. 3; 3: pl. 100, figs. 37 ♂ D, 38 ♂ V.

Original Combination: *Mastor perigenes*

Type Locality: "Mexico, Rincon in Guerrero"

Types: Syntype(s) in BMNH.

Genus **Monca** Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 87, 124. Type-species: *Cobalus telata* Herrich-Schäffer, 1869, *Corresp-BI. zool.-min. Ver. Regensburg* 23(12): 201, no. 43, by original designation.

195. **Monca crispinus** (Plötz, 1882)

Stettiner Entomol. Ztg. 43(7-9): 318, no. 25; cited unpublished pl. 277.

Original Combination: [*Hesperia*] *Crispinus*

Type Locality: "Mexico"

Types: Holotype (# 5306) in ZMHB.

Mielke and Casagrande (2002), *Revta. bras. Zool.* 19(supl. 1): 57, determined this synonymy.

= *tyrtaeus* (Plötz, 1882)

Stettiner Entomol. Ztg. 44(1-3): 51, no. 348; cited unpublished pl. 581.

Original Combination: [*Hesperia*] *Tyrtaeus*

Type Locality: "Laguayra" [Venezuela]

Types: Lectotype in EMAU, designated by Mielke and Casagrande (2002), *Revta. bras. Zool.* 19(supl. 1): 57. Godman (1907), *Ann. Mag. Nat. Hist.* (7)20(116): 143, treated this taxon as a synonym of *Megistias telata* Herrich-Schäffer, 1869, *Corresp-BI. zool.-min. Ver. Regensburg* 23(12): 201, based on an examination of the unpublished drawing made by Plötz; Evans (1955), *Cat. Am. Hesp. Brit. Mus.* (4): 124, concurred. However, E. Bell (1941), *Entomol. News* 52(7): 183-185, demonstrated that *M. telata* and *M. tyrtaeus* are distinct

species-level taxa, and Austin *et al.* (1996), *Tropical Lepid.* 7(1): 25, corroborated this.

Genus **Nastra** Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 87, 125. Type-species: *Hesperia lherminier* Latreille, [1824], *in*: Ency. méth. 9(Ins.)(2): (725), 777-778, no. 135, by original designation.

196. **Nastra lherminier** (Latreille, [1824])
In: Ency. méth. 9(Ins.)(2): (725), 777-778, no. 135.
Original Combination: *Hesperia lherminier*
Type Locality: “de la Caroline”
Types: Type(s) probably lost; N. Riley (1926), *Trans. Entomol. Soc. Lond.* 74(2): 240, noted that the type was not in the MNHP.
 The specific name as given is in accordance with Code Articles 27 and 32. The emendation of the name to “*lherminier*” is unjustified, regardless of the authorship.
 = *fusca* (Grote & Robinson, 1867)
Trans. Am. Entomol. Soc. 1(1): 2-3.
Original Combination: *Hesperia fusca*
Type Locality: “Atlantic District. (Georgia!...Florida!)”
Types: Syntype in AMNH.
197. **Nastra neamathla** (Skinner & R. Williams, 1923)
Trans. Am. Entomol. Soc. 49(2): 145-146, no. 33, fig. 33 ♂ genitalia.
Original Combination: *Lerodea neamathla*
Type Locality: “Central Florida”
Types: Holotype (#7109) in ANSP; a paratype figured by W. Holland (1931), *Butterfly Book* (rev. ed.): pl. 54, fig. 17 ♂ V.
198. **Nastra julia** (H. Freeman, 1945)
Entomol. News 56(8): 203, fig. 1 ♂ genitalia.
Original Combination: *Lerodea julia*
Type Locality: “Pharr, Texas” [Hidalgo County]
Types: Holotype in AMNH.
 = *hoffmanni* (E. Bell, 1947)
Am. Mus. Novit. (1354): 8, fig. 10 ♂ genitalia.
Original Combination: *Lerodea hoffmanni*
Type Locality: “Colima, Mexico”
Types: Holotype in AMNH.

Genus **Cymaenes** Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 82. Type-species: *Cobalus tripunctus* Herrich-Schäffer, 1865, *Corresp.-Bl. zool.-min. Ver. Regensburg* 19(3/4): 53, no. 1, by original designation.

- = *Megistias* Godman, 1900
In: Godman & Salvin, *Biol. centr.-amer.*, *Lepid. Rhop.* 2(160): 571. Type-species: *Hesperia tripunctata* Latreille, [1824], *Ency. méth.* 9(Ins.)(2): 752, no. 62[a], by original designation.
199. **Cymaenes tripunctus** (Herrich-Schäffer, 1865)
a. Cymaenes tripunctus tripunctus (Herrich-Schäffer, 1865)
Corresp.-Bl. zool.-min. Ver. Regensburg 19(3/4): 53, no. 1.
Original Combination: *Cobalus tripunctus*
Type Locality: “Cuba” implied from the title of the paper.
Types: Syntype (#7114) in ANSP.

- = *jamaca* (Schaus, 1902)
Proc. U. S. Nat. Mus. 24(1262): 452.
Original Combination: *Megistias Jamaca*
Type Locality: "Jamaica, British West Indies"
Types: Holotype (#6050) in USNM.
- = ‡"*sinepunctis*" (Avinoff & Shoumatoff, 1946)
Ann. Carnegie Mus. 30(16): 293, no. 113.
Original Combination: *Lerodea tripuncta sinepunctis* ab. nov.
Type Locality: "Cave River" [Clarendon Parish, St. Ann., Jamaica]
Types: "Holotype" in CMNH; figured by Mielke (1989), Revta. bras. Entomol. 33(2): figs. 7-11 ♂ genitalia, figs. 21, 22 ♂ D&V.
- 200. **Cymaenes trebius** (Mabille, 1891)
Annls. Soc. Entomol. Belg. 35(c.r.)(18): clxxiv.
Original Combination: *Pamphila Trebius*
Type Locality: "Bogota" [Colombia]
Types: Holotype in ZMHB.
A. Warren *et al.* (1998), J. Lepid. Soc. 52(1): 53, A. Warren (2000), *in*: Llorente *et al.*, Biodivers. Taxon. Biogeogr. Artrópod. Méx. 2: 557, and other recent authors, considered *C. trebius* to be a species-level taxon.
- = *isus* (Godman, 1900)
In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(160): 574, no. 5; 3(162): pl. 101, figs. 9 ♂ D, 10 ♂ V, 11 ♂ genitalia.
Original Combination: *Megistias isus*
Type Locality: "Mexico, Acapulco, Dos Arroyos, Rio Papagaio, Venta de Zopilote, Tierra Colorada, Cuernavaca, Atoyac, Fortin, Teapa...Misantla, Jalapa...Orizaba...Paso de San Juan...Guatemala...Nicaragua, Chontales...Costa Rica, Caché, San Francisco...Venezuela; Guiana"
Types: Syntypes in BMNH.

Genus *Lerodea* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 80. Type-species: *Hesperia eufala* W. H. Edwards, 1869, Trans. Am. Entomol. Soc. 2(3): 311-312, by original designation.

- 201. **Lerodea eufala** (W. H. Edwards, 1869)
 - a. **Lerodea eufala eufala** (W. H. Edwards, 1869)
Trans. Am. Entomol. Soc. 2(3): 311-312.
Original Combination: *Hesperia Eufala*
Type Locality: "Apalachicola, Florida"; neotype from "Ind[ian]. River." [Brevard and Volusia counties]
Types: Neotype (possibly lectotype) in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 58, fig. 22 ♂ D&V.
 - = *dispersa* (Herrich-Schäffer, 1869)
Corresp-Bl. zool.-min. Ver. Regensburg 23(12): 197, no. 56.
Original Combination: [*Goniloba*] *dispersa*
Type Locality: Not stated.
Types: Syntype in ANSP.
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 142, determined this synonymy through an

examination of the unpublished drawing (pl. 541) made by Plötz.

- = *floridae* (Mabille, 1876)
Annls. Soc. Entomol. Fr. (5)6(2): 269, no. 16; (bull.): ix, no. 6, referring to p. 269.

Original Combination: *Pamphila Floridae*

Type Locality: "E. Florida" "Floride, Texas"

Types: Type(s) probably in MNHP.

- = *micylla* (Burmeister, 1878)
Descr. phys. Rép. Argentine 5(Lépid.)(1): 272-273, no. 7.

Original Combination: *Carystus Micylla*

Type Locality: "Buénos-Ayres" [Buenos Aires, Argentina]

Types: Syntype in MACN.

‡"obscura" Lindsey, E. Bell & R. Williams, 1931
Denison Univ. Bull. 31(2), J. Sci. Lab. 26(1): 134; cited Mabille (1904), *in*: Wytzman, Gen. Ins. (17b): 131.

Original Combination: *Lerodea eufala floridae* var. *obscura*

This name was inadvertently proposed by Lindsey *et al.*, who erroneously believed that it had been described by Mabille; a *nomen nudum*.

202. Lerodea arabus (W. H. Edwards, 1882)

Papilio 2(2): 26.

Original Combination: *Pamphila Arabus*

Type Locality: "southern Arizona"; suggested to be "vicinity of Tucson, Pima County, Arizona" by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 56; neotype from "Sabino Canyon, Santa Catalina Mts., Pima Co., Arizona, 2900'."

Types: Neotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 57, fig. 21 ♂ D&V.

- = *dysaules* Godman, 1900
In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 500, no. 2; 3(158): pl. 95, figs. 19 ♂ D, 20 ♂ V (lectotype).

Original Combination: *Lerodea dysaules*

Type Locality: "Mexico, Venta de Zopilote in Guerrero"

Types: Lectotype in BMNH, designated by A. Warren and Mielke (2005), Revta. bras. Zool. 22(1): 288.

A. Warren and Mielke (2005), Revta. bras. Zool. 22(1): 285-288, determined this synonymy, though others have suggested it (e.g., Scott (1986), Butterflies N. Am.: 465).

Genus Mnasilus Godman, 1900

In: Godman & Salvin, Biol. centr.-amer., Lep. Rhop. 2(160): 569. Type-species: *Mnasilus penicillatus* Godman, 1900, Biol. centr.-amer., Lep. Rhop. 2(160): 570; 3(160): pl. 100, figs. 39-42 (= *Pamphila allubita* Butler, 1877, Trans. Entomol. Soc. Lond. (4)1877(2): 151, no. 257; synonym), by monotypy.

203. Mnasilus allubita (Butler, 1877)

Trans. Entomol. Soc. Lond. (4)1877(2): 151, no. 257.

Original Combination: *Pamphila allubita*

Type Locality: "Obydos...Rio Sapó" [Óbidos, Pará, Brazil...Rio Sapó, Amazonas, Brazil]

Types: Syntypes in BMNH.

Recorded from Texas by Reid and A. Warren (2009), News Lepid. Soc. 51(4): 115, 117, 2 photos.

= *penicillatus* Godman, [1900]

In: Godman & Salvin, Biol. centr.-amer., Lep. Rhop.

2(160): 570, 3(160): pl. 100, figs. 39 ♂ D, 40 ♂ V, 41 ♂ FW, 42 ♂ genitalia.

Original Combination: *Mnasilus penicillatus*

Type Locality: "Mexico, San Blas in Jalisco...Frontera, Teapa...Guatemala, San Gerónimo...Panama, Chiriqui...South America, Lower Amazons to Brazil."

Types: Syntypes in BMNH.

= *umbrosus* (Mabille, 1883)

Annls. Soc. Entomol. Belg. 27(c.r.)(31): lxii-lxiii.

Original Combination: *Cobalus umbrosus*

Type Locality: not stated.

Types: Syntype(s) in BMNH.

= *umbrosus* (Mabille, 1883)

Annls. Soc. Entomol. Belg. 27(c.r.)(31): lxiii.

Original Combination: *Cobalus evanidus*

Type Locality: "America meridionali"

Types: Syntype(s) probably in BMNH.

= *zalma* (Plötz, 1886)

Stettiner Entomol. Ztg. 47(1-3): 89, no 19c.

Original Combination: [*Cobalus*] *zalma*

Type Locality: "Panama"

Types: Type(s) may be in ZSMC, ZMHB, or lost.

= *amyrna* (Mabille, 1891)

Annls. Soc. Entomol. Belg. 35(c.r.)(18): clxxxiii.

Original Combination: *Pamphila Amyrna*

Type Locality: "Porto Cabello" [Venezuela]

Types: Holotype in ZMHB

= *norma* (Dyar, 1917)

Insecutor Inscit. menstr. 5(4/6): 65-66.

Original Combination: *Vehelius norma*

Type Locality: "Plantation Kitty, Georgetown, British Guiana"

Types: Holotype (#21188) in USNM.

Genus *Lerema* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 82. Type-species: *Papilio accius* J. E. Smith, 1797, *in:* Smith & Abbot, Ins. Georgia 1: 45, pl. 23, by original designation.

= *Sarega* Mabille, 1904

In: Wytsman, Gen. Ins. (17b): 133. Type-species: *Sarega staurus* Mabille, 1904, *in:* Wytsman, Gen. Ins. (17b): 133, by monotypy.

204. *Lerema accius* (J. E. Smith, 1797)

In: Smith & Abbot, Ins. Georgia 1: 45-46, pl. 23, figs. ♂ D, ♂ V, ♀ D, larva, pupa.

Original Combination: *Papilio Accius*

Type Locality: "Georgia" implied from the notes for the original drawing by John Abbot.

Types: Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are presumed lost.

- = *monoco* (Scudder, 1863)
Proc. Essex Inst. 3: 178, no. 80.
Original Combination: *Hesperia Monoco*
Type Locality: "southern portions; Conn.Mass."
[Connecticut and Massachusetts]
Types: Syntypes (#15304) in MCZ.
 - = *punctella* (Grote & Robinson, 1867)
Trans. Am. Entomol. Soc. 1(1): 1.
Original Combination: *Hesperia punctella*
Type Locality: "Atlantic District. (Georgia!)"
Types: Holotype in MCZ.
 - = *nortonii* (W. H. Edwards, 1867)
Trans. Am. Entomol. Soc. 1(3): 286, 287-288, no. 4.
Original Combination: *Hesperia Nortonii*
Type Locality: "New Orleans" [Orleans Parish, Louisiana]
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 266, fig. 4 ♂ D&V.
 - = *parumpunctata* (Herrich-Schäffer, 1869)
Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 196, no. 52.
Original Combination: [*Goniloba*] *parumpunctata*
Type Locality: Not stated.
Types: Syntypes in ZMHB.
 - = *pattenii* Scudder, 1872
4th Ann. Rep. Peabody Acad. Sci. (1871): 82, no. 3.
Original Combination: *L[erema]. Pattenii*
Type Locality: "Guatemala"
Types: Holotype (#15318) in MCZ.
 - = *phocylides* (Plötz, 1882)
Stettiner Entomol. Ztg. 44(1-3): 52, no. 350; cited unpublished pl. 578.
Original Combination: [*Hesperia*] *Phocylides*
Type Locality: "Laguayra" [Venezuela]
Types: Type(s) may be in ZSMC or lost.
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 143, suggested this synonymy through an examination of the unpublished drawing made by Plötz.
‡"curtius" Scudder, 1889
Butterflies E. U. S. & Can. 2(11): 1768.
Original Combination: [*Lerema accius*] = *Hesperia curtius* Abb.
This name was mentioned in the synonymy of *Lerema accius* without a description or indication; a *nomen nudum*.
‡"chamis" Scudder, 1889
Butterflies E. U. S. & Can. 2(11): 1768.
Original Combination: [*Lerema accius*] = *Hesperia chamis* Boisd. manuscript
Proposed for a Boisduval manuscript name without a description or indication; a *nomen nudum*.
205. **Lerema liris** Evans, 1955
Cat. Am. Hesp. Brit. Mus. (4): 164.
Original Combination: [*Lerema ancillaris*] *liris*
Type Locality: "Mexico, Atoyac, Vera Cruz" [Veracruz]
Types: Holotype in BMNH.

This was considered a species-level taxon by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 29, 210, note 82, A. Warren *et al.* (1998), J. Lepid. Soc. 52(1): 54, and other recent authors.

Genus **Vettius** Godman, 1901

In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(161): 589. Type-species: *Papilio phyllus* Cramer, 1777, Uitl. Kapellen 2(15): 122, pl. 176, figs. B, C; (16): 150 (index), by original designation.

206. **Vettius fantasos** (Cramer, 1780)

Uitl. Kapellen 4(25): 20, pl. 300, figs. E ♂ D, F ♂ V; (34): 249 (index).

Original

Combination: *Pap[ilio]. Pleb[ejus]. Urb[icola]. Fantasos*

Type Locality: "Surinamen" "Suriname"

Types: Type(s) probably lost.

= *abebalus* (Stoll, 1781)

Uitl. Kapellen 4(31): 145, pl. 365, figs. G ♂ D, H ♂ V; (34): 247 (index).

Original

Combination: *Pap[ilio]. Pleb[ejus]. Urb[icola]. Abebalus*

Type Locality: "Kust van Guiné en aan de Kaap de Goede Hoop" "Côte de Guiné & au Cap de Bonne Espérance", in error.

Types: Type(s) probably lost.

= *eucherus* (Plötz, 1882)

Stettiner Entomol. Ztg. 43(10-12): 452, no. 210; cited unpublished pl. 445, and *Papilio fantasos* (*sensu* Sepp [1847], Surinaam. Vlinders [2](21): pl. 82).

Original Combination: [*Hesperia*] *Eucherus*

Type Locality: "Surinam"

Types: Type(s) in ZSMC.

This name was probably proposed as a replacement for *Papilio fantasos* (Cramer, 1780), thus a junior objective synonym. Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 140, determined this synonymy through an examination of the unpublished drawing made by Plötz.

Genus **Rhinthon** Godman, 1900

In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(158): 530. Type-species: *Proteides chiriquensis* Mabilie, 1889, Naturaliste (2)3(53): 127, fig. 1 (= *Hesperia osca* Plötz, 1882, Stettiner Entomol. Ztg. 44(1-3): 48, no. 334; synonymy), by original designation.

207. **Rhinthon osca** (Plötz, 1882)

Stettiner Entomol. Ztg. 44(1-3): 48, no. 334; cited unpublished pl. 537 (557 in BMNH collection).

Original Combination: [*Hesperia*] *Osca*

Type Locality: "Caracas" [Venezuela]

Types: Holotype (#5219) in ZMHB.

This was considered a species-level taxon by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 30, 210, note 84, A. Warren *et al.* (1998), J. Lepid. Soc. 52(1): 54, A. Warren (2000), *in*: Llorente *et al.*, Biodiver. Taxon. Biogeogr. Artrópod. Méx.2: 558, and other recent authors.

= *cabella* (Plötz, 1886)

Stettiner Entomol. Ztg. 47(1-3): 96-97, no. 315e; cited unpublished pl. 1419.

Original Combination: [*Hesperia*] *Cabella*

Type Locality: "Porto Cabello" [Venezuela]

Types: Type(s) may be in ZMHB or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 152, determined this synonymy (as *chiriquensis*) through an examination of the unpublished drawing made by Plötz.

= *chiriquensis* (Mabille, 1889)

Naturaliste (2)3(53): 127, fig. 1 ♂ D&V.

Original Combination: *Proteides Chiriquensis*

Type Locality: "Chiriqui" [Panama]

Types: Holotype in ZMHB.

= *biserta* (Schaus, 1902)

Proc. U. S. Nat. Mus. 24(1262): 460.

Original Combination: *Thracidides Biserta*

Type Locality: "Trinidad"

Types: Holotype (#6073) in USNM.

Tribe *Hesperiini* Latreille, 1809

Genus *Hylephila* Billberg, 1820

Enum. Ins. Mus. Billb.: 81. Type-species: *Papilio phyleus* Drury, 1773, Ill. Nat. Hist. 1: 25-26, pl. 13, figs. 4, 5; 2: index, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 193, no. 544.

= ‡*Euthymus* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 77. Type-species: *Papilio phyleus* Drury, 1773, Ill. Nat. Hist. 1: 25-26, pl. 13, figs. 4, 5; 2: index, by original designation.

Preoccupied by *Euthymus* Rafinesque, 1815, Analyse Nat.: 127, and also a junior objective synonym of *Hylephila*.

= *Andinus* Hayward, 1940

Revta. Soc. Entomol. Argent. 10(3): 284-285. Type-species: *Andinus venustus* Hayward, 1940, Revta. Soc. Entomol. Argent. 10(3): 285-286, fig. 9, by original designation.

= ‡*Cordillana* Hayward, 1941

Revta. Mus. La Plata, Zool. (n.s.) 2(14): 288. Type-species: *Andinus venustus* Hayward, 1940, Rev. Soc. Entomol. Argent. 10: 285, as replacement name; proposed to replace *Andinus* Hayward, 1940, erroneously thought preoccupied.

phyleus group MacNeill & Herrera, 1999
J. Lepid. Soc. 52(3): 285 (key), 286-287.

208. *Hylephila phyleus* (Drury, 1773)

a. *Hylephila phyleus phyleus* (Drury, 1773)

Ill. Nat. Hist. 1: 25-26, pl. 13, figs. 4 ♂ D, 5 ♂ V (1770); 2: index (1773, name given).

Original Combination: *Papilio Phyleus*

Type Locality: "Antigua, St. Christopher's, Nevies"; suggested to be "Antigua" by Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 311.

Types: Type(s) probably lost.

Panzer (1785), Diurn. Abbild.: 59, pl. 13, figs. 4, 5, misidentified this species as *Papilio phareus* Fabricius, 1793, a name that has sometimes been listed in the synonymy of *H. phyleus*. Likewise, Hübner (1823), Zutr.

Samml. exot. Schmett. 2: 11, listed "*Hesperia carin*" in the synonymy of *Phemiades augias* Linnaeus, 1763 *sensu* Hübner, which included *H. phyleus*; this is *anomen nudum* and a misidentification of *phyleus*.

= ‡"druryi" (Megerle, [1803])

Cat. Ins. Viennae Austriae 28 Novembris 1803, auctionis: [29].

Original Combination: *Papilio Druryi*

Proposed to replace *Papilio phyleus* Drury, 1773, erroneously thought pre-occupied.

I.C.Z.N. *Opinion 1710* placed this work on the *Official Index of Rejected and Invalid Works in Zoological Nomenclature*.

= *bucephalus* (Stephens, 1828)

Ill. Brit. Entomol., Haustellata 1: 102-103, pl. 10, figs. 1, 2.

Original Combination: [*Pamphila*] *Bucephalus*

Type Locality: "neighborhood of Barnstable in Devonshire [England]"; but suggested to be "from the North American continent" later in the original description.

Types: Location of syntypes not known.

= *hala* (Butler, 1870)

Trans. Entomol. Soc. Lond. (4)1870(4): 504, no. 2.

Original Combination: *Pamphila Hala*

Type Locality: "Venezuela"

Types: Holotype in BMNH.

= *muertovalle* Scott, 1981

Papilio (n.s.) 1: 10.

Original Combination: *Hylephila phyleus muertovalle*

Type Locality: "Furnace Creek date grove, Death Valley, Inyo Co., Calif." [California]

Types: Holotype in LACM.

The utility of this name as a trinomial seems questionable.

= *eureka* Austin & J. Emmel, 1998

Syst. W. N. Am. Butterflies (42): 502, figs. 3 ♂ D, 4 ♂ V (holotype); 5 ♀ D, 6 ♀ V.

Original Combination: *Hylephila phyleus eureka*

Type Locality: "California: Humboldt County; Eureka"

Types: Holotype in LACM.

As discussed by Pyle (2002), Butterflies Cascadia:270, the utility of this name as a trinomial seems questionable.

= ‡"pallida" Hayward, 1944

Revta. Soc. Entomol. Argent. 12(3): 180.

Original Combination: *Hylephila phyleus* ab. *pallida*

Type Locality: "Tucuman" [Argentina]

Types: Holotype in IMLA (Hayward collection).

Genus *Pseudocopaeodes* Skinner & R. Williams, 1923

Trans. Am. Entomol. Soc. 49(2): 137. Type-species: *Copaeodes eunus* W. H. Edwards, 1881, *Papilio* 1(4): 47, no. 5, by original designation.

209. **Pseudocopaeodes eunus** (W. H. Edwards, 1881)
- a. **Pseudocopaeodes eunus eunus** (W. H. Edwards, 1881)
 Papilio 1(4): 43, 47, no. 5.
Original Combination: *Copaeodes eunus*
Type Locality: "Mt. Hood"; corrected to "the bottoms of Kern River, near Bakersfield, Cal." by Morrison (1883), Papilio 3(2): 43. [Kern County, California]
Types: Holotype in CMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 73, fig. 6 ♂ V, and F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): fig. 12 ♂ D& V.
 = *wrightii* (W. H. Edwards, 1882)
 Can. Entomol. 14(8): 152.
Original Combination: *Copaeodes Wrightii*
Type Locality: "Mohave Desert, So. California...over a pass 6,000 feet high...on the high dry plain...for 20 miles to Mohave River. About 60 rods from the river"; defined as "near Victorville, San Bernardino Co., Calif." by Scott (1981), Papilio (n.s.) 1: 11.
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 278, fig. 13 ♂ D&V; a paralectotype figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 47, fig. 10 ♂ D.
 This was treated as a subspecies-level taxon by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 211, note 103, but was considered a synonym of *P. e. eunus* by Scott (1981), Papilio (n.s.) 1: 12, (1986), Butterflies N. Am.: 435, and Austin & J. Emmel (1998), Syst. W. N. Am. Butterflies (42): 503.
- b. **Pseudocopaeodes eunus alinea** Scott, 1981
 Papilio (n.s.) 1: 12.
Original Combination: *Copaeodes eunus alinea*
Type Locality: "Afton, San Bernardino Co. Calif." [San Bernardino County, California]
Types: Holotype in LACM.
- c. **Pseudocopaeodes eunus flavus** Austin & J. Emmel, 1998
 Syst. W. N. Am. Butterflies (42): 503, figs. 7 ♂ D, 8 ♂ V (holotype); 9 ♀ D, 10 ♀ V.
Original Combination: *Pseudocopaeodes eunus flavus*
Type Locality: "Nevada: Churchill County; Stillwater National Wildlife Refuge, Loop Road, 1189 m, T20N R32E S4-5 on USGS Foxtail Lake, Nev. 7.5' quadrangle"
Types: Holotype in MGCL.
- d. **Pseudocopaeodes eunus obscurus** Austin & J. Emmel, 1998
 Syst. W. N. Am. Butterflies (42): 503-504, figs. 11 ♂ D, 12 ♂ V (holotype); 13 ♀ D, 14 ♀ V.
Original Combination: *Pseudocopaeodes eunus obscurus*
Type Locality: "Nevada: Carson City; Eagle Valley, Lompa Lane at Airport Road (the latter combines with Hot Springs Road and Graves Lane), 1417 m, T15N R20E S9 on USGS New Empire, Nev. 7.5' quadrangle"
Types: Holotype in MGCL.

Genus *Hesperia* Fabricius, 1793

Entomol. Syst. 3(1): 258, no. 187. Type-species: *Papilio comma* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 162, by designation of Dalman (1816), K. svenska VetenskAkad. Handl. 37(2): 200.

I.C.Z.N. *Opinion 1240* placed this name on the *Official Index of Generic Names in Zoology* as name no. 2178. Due to the erroneous type designation by Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 187-189, most of what is now known as *Pyrgus* was previously called *Hesperia*. The name "*Steropes*" was introduced by Rafinesque (1815), Analyse Nat.: 128, for an unspecified part of what he called "*Hesperia* Cuvier." No other information was given. This name is unidentifiable, does not conform to Code Article 12, and is unavailable; it is also preoccupied by *Steropes* Steven, 1806, Mém. Soc. Imp. Nat. Moscou 1: 166.

- = ‡*Pamphila* [Fabricius], 1807
In: Illiger, Mag. f. Insektenk. 6: 287, no. 41. Type-species: *Papilio comma* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 162, by designation of Westwood (1840), Intro. Class. Ins. 2: 88. A junior objective synonym of *Hesperia* Fabricius, 1793.
- = ‡*Diorthosus* Rafinesque, 1815
Analyse Nat.: 128, no. '7' [37]. Type-species: *Papilio comma* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 162, as replacement name for "*Hesperia* Cuvier", erroneously thought to be preoccupied. A junior objective synonym of *Hesperia* Fabricius, 1793.
- = ‡*Phidias* Rafinesque, 1815
Analyse Nat.: 128, no. 41. Type-species: *Papilio comma* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 162, as replacement name for *Pamphila* [Fabricius], 1807, erroneously thought to be preoccupied. A junior objective synonym of *Hesperia* Fabricius, 1793.
- = ‡*Symphachia* Sodoffsky, 1837
Bull. Soc. Imp. Nat. Moscou 10(6): 82, no. 16. Type-species: *Papilio comma* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 162, as replacement name for *Hesperia* Fabricius, 1793, erroneously thought to be preoccupied. A junior objective synonym of *Hesperia* Fabricius, 1793; this name is also preoccupied by *Symphachia* Hübner, [1819], Verz. bekannt. Schmett. (2): 26.
- = *Ocytes* Scudder, 1872
4th Ann. Rep. Peabody Acad. Sci. (1871): 76. Type-species: *Hesperia metea* Scudder, 1863, Proc. Essex Inst. 3: 177-178, no. 79, by original designation.
- = *Anthomaster* Scudder, 1872
4th Ann. Rep. Peabody Acad. Sci. (1871): 78. Type-species: *Hesperia leonardus* T. Harris, 1862, Ins. injur. Veget. (3rd ed.): 314, fig. 138, by original designation.
- = ‡*Urbicola* Tutt, 1905
Nat. Hist. Brit. Butterflies 1(1): 84. Type-species: *Papilio comma* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 162, by original designation. A junior objective synonym of *Hesperia* Fabricius, 1793. Tutt erroneously attributed this name to Barbut, thereby making it a senior synonym of *Hesperia*; however, Barbut did not use the name in a generic sense (see Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 454), but followed Linnaeus' usage as an interposed adjective.

comma group MacNeill, 1964
Univ. Calif. Publ. Entomol. 35: 65-67.

210. *Hesperia uncas* W. H. Edwards, 1863

- a. **Hesperia uncas uncas** W. H. Edwards, 1863
Proc. Entomol. Soc. Philad. 2(1): 14, 19-20, no. 9; (2): pl. 5, fig. 3 ♂ D&V.
Original Combination: *Hesperia Uncas*
Type Locality: "Philadelphia"; corrected to "vicinity of Denver, Colorado" by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 298-299.
Types: Neotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 299, fig. 26 ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 47, fig. 27 ♂ D.
= *ridingsii* Reakirt, 1866
Proc. Entomol. Soc. Philad. 6(1): 151.
Original Combination: *Hesperia Ridingsii*
Type Locality: "Rocky Mountains, Colorado Terr."
Types: Holotype in FMNH.
- b. **Hesperia uncas tomichi** M. Fisher, 2008
Papilio (n.s.) 18: 12-13, pl 4, top row left ♂ D, top row center ♂ V (holotype), second row left ♀ D, second row center ♀ V.
Original Combination: *Hesperia uncas tomichi*
Type Locality: "Colorado: Gunnison Co., Big Mesa, 1 mi. S Hwy 50 off CR31 and SR 149, 7800 Ft."
Types: Holotype in CSUC.
- c. **Hesperia uncas lasus** (W. H. Edwards, 1884)
Papilio 4(3): 54-55.
Original Combination: *Pamphila Lasus*
Type Locality: "southern Arizona"; tentatively defined as "foothills east of Tucson, Pima County, Arizona" by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 299-300; corrected to "southeast from there [Tucson] in either Cochise or Santa Cruz County" by Austin and McGuire (1998), Syst. W. N. Am. Butterflies (66): 777.
Types: Holotype (#33623) in USNM; figured by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): fig. 27 ♂ D&V.
- d. **Hesperia uncas grandiosa** Austin & McGuire, 1998
Syst. W. N. Am. Butterflies (66): 778, figs. 1 third row left ♂ D, 2 third row left ♂ V (holotype); 1 third row 3 ♂'s right to left D, 2 3 ♂'s right to left, 1 fourth row 4 ♀'s D, 2 fourth row 4 ♀'s V, 9 ♂ genitalia, 17 ♀ genitalia.
Original Combination: *Hesperia uncas grandiosa*
Type Locality: "Nevada: White Pine County; White River Valley, 1 mile north of Nye County line, 1676 m, T10N R61E S11 on USGS Moorman Spring NE, Nev. 7.5' quadrangle"
Types: Holotype in MGCL.
- e. **Hesperia uncas fulvapalla** Austin & McGuire, 1998
Syst. W. N. Am. Butterflies (66): 777, figs. 3 top row left ♂ D, 4 top row left ♂ V (holotype); 3 top row 3 ♂'s right to left D, 4 top row 3 ♂'s right to left V, 3 second row 4 ♀'s D, 4 ♀'s V, 8 ♂ genitalia, 16 ♀ genitalia.
Original Combination: *Hesperia uncas fulvapalla*
Type Locality: "Nevada: Nye County; Railroad Valley, U.S. Route 6, Lockes Ponds, 1.3 miles south (=southeast) of Lockes, 1463 m, T8N R55E S113 [sic!] on USGS Portuguese Mt., Nev. 15' quadrangle"
Types: Holotype in MGCL.

- WAS-Archives.org

Butterfly Book (rev. ed.): 372, pl. 52, fig. 9 ♀ D ("holotype").

Original Combination: [*Erynnis juba*]

ab. *ogdenensis*

Type Locality: "Ogden, Utah" [Weber County]

Types: Holotype in CMNH.

***212. *Hesperia comma* (Linnaeus, 1758)**

Syst. Nat. (ed. 10) 1: 484, no. 162; cited Linnaeus (1746), Fauna Svecica: 241, no. 793, and Merian (1730), Europ. Ins.: pl. 48.

Original Combination: *P[apilio]. P[lebejus urbicola]. Comma*

Type Locality: "in Europa"; suggested to be "Sweden" by Verity (1940), Farfalle diurn. Ital. 1: 112, based on citation in Fauna Svecica.

Types: Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 314.

I.C.Z.N. *Opinion 1240* placed this name on the *Official List of Specific Names in Zoology* as name no. 2838. The Palaearctic synonymy is not listed. Layberry *et al.* (1998), Butterflies Can.: 52-54, treated North American populations of "*comma*" as three species-level taxa. This had been done before (e.g., MacNeill (1964), Univ. Calif. Publ. Entomol. 35: 89-90), in a slightly different fashion. The treatment presented by Layberry *et al.* is adopted here, although as noted by Opler and A. Warren (2002), Sci. Names List Butterflies N. A.: 12, the relationship between *assiniboia* and *colorado* requires more study; these two taxa may be conspecific.

a. *Hesperia comma hulbirti* Lindsey, 1939

Ann. Entomol. Soc. Am. 32(1): 171.

Original Combination: *Hesperia hulbirti*

Type Locality: "Hurricane Hill in the Olympic Mts., Washington" [Clallam County]

Types: Holotype in CMNH; paratypes figured by Lindsey (1942), Denison Univ. Bull., J. Sci. Lab. 37(1/2): pl. 4, figs. 4 ♂ V, 11 ♀ V.

b. *Hesperia comma manitoba* (Scudder, 1874)

Mem. Boston Soc. Nat. Hist. 2(3)(4): 342, 343, 344 key, 345 key, 346 key, 351, no. 7, pl. 10, figs. 8 ♂ D&V, 9 ♀ D&V, 10 ♀ D&V, 11 ♂ D&V (lectotype); pl. 11, figs. 7, 8 ♂ genitalia; figured by Scudder (1889), Butterflies E. U. S. & Can. 3(10): pl. 17, fig. 4 ♂ D&V from British Columbia.

Original Combination: *Pamphila Manitoba*

Type Locality: "Colorado...about Pike's Peak...on the shores of Lake Winnipeg...at Labache, and at Rivière du Loup"; lectotype from "Lahache, B. C." [Lac La Hache, British Columbia]

Types: Lectotype (#15301) in MCZ, designated by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 127.

c. *Hesperia comma borealis* Lindsey, 1942

Denison Univ. Bull., J. Sci. Lab. 37(1/2): 19, pl. 1, fig. 6 ♂ genitalia, pl. 4, fig. 9 ♂ V (holotype), 16 ♀ V.

Original Combination: *Hesperia borealis*

Type Locality: "Nain, Labrador" [Newfoundland and Labrador]

Types: Holotype in CUIC.

- d. **Hesperia comma laurentina** (Lyman, 1892)
Can. Entomol. 24(3): 57, 59.
Original Combination: [*Pamphila Manitoba*]
var. *Laurentina*
Type Locality: "Lower St. Lawrence...Cacouna...Rivière du Loup, Metis...Gaspé"; lectotype from "Gaspe, P. Q." [Quebec]
Types: Lectotype in LEMQ, designated by Sheppard and Vickery (1975), Can. Entomol. 107(10): 1130, fig. 1 ♂ D.
213. **Hesperia assiniboia** (Lyman, 1892)
Can. Entomol. 24(3): 57, 59.
Original Combination: [*Pamphila Manitoba*] var. *Assiniboia*
Type Locality: "Regina" [Saskatchewan]
Types: Lectotype in LEMQ, designated by Sheppard and Vickery (1975), Can. Entomol. 107(10): 1130, fig. 2 ♂ D.
214. **Hesperia colorado** (Scudder, 1874)
a. **Hesperia colorado colorado** (Scudder, 1874)
Mem. Boston Soc. Nat. Hist. 2(3)(4): 342, 343, 344 key, 345 key, 346 key, 349, no. 4, pl. 10, figs. 16 ♀ D&V, 17 ♀ D&V, 18 ♂ D&V (lectotype); pl. 11, figs. 1, 2 ♂ genitalia.
Original Combination: *Pamphila Colorado*
Type Locality: "Colorado, about the Georgetown and South Park Roads...Arizona"; lectotype from "Colorado"; subsequently suggested to be "Tennessee Pass, 3150 m (=10300 feet), Lake-Eagle Cos. Colorado" by Scott (1998), Papilio (n.s.) 11: 6; however, Guanella Pass (= the road between Georgetown and South Park) is more likely to be the correct type locality (A. Warren pers. comm. 2006). [Park-Clear Creek counties]
Types: Lectotype (#15299) in MCZ, designated by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 126-127.
- b. **Hesperia colorado ochracea** Lindsey, 1941
Ann. Entomol. Soc. Am. 34(4): 770-772.
Original Combination: *Hesperia colorado* form *ochracea*
Type Locality: "Platte Canyon, Colo." [Jefferson-Douglas counties]
Types: Holotype in AMNH; figured by Lindsey (1942), Denison Univ. Bull., J. Sci. Lab. 37(1/2): pl. 5, fig. 15 ♂ V.
This name is not a primary homonym of "*Hesperia ochracea*" *sensu* Staudinger (1871), *in*: Staudinger and Wocke, Cat. Lepid. Europ. (2nd ed.): 35, Plötz (1883), Stettiner Entomol. Ztg. 44(4-6): 197, etc.; these usages refer to *Pamphila ochracea* Bremer, 1861, Bull. Acad. Sci. St. Pétersbourg (ser. 3)3(7): col. 473, secondarily placed in *Hesperia*. That taxon is now in *Ochlodes*, so the retrieval of this name from secondary homonymy was mandatory since no replacement name was ever proposed (Code Articles 57.3.1, 59.3).
- c. **Hesperia colorado oroplata** Scott, 1981
Papilio (n.s.) 1: 8.
Original Combination: *Hesperia comma oroplata*
Type Locality: "Spring Creek, Fremont Co., Colo." [Colorado]
Types: Holotype in LACM.

- d. **Hesperia colorado susanae** L. Miller, 1962
Entomol. News 73(4): 85-88, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Hesperia susanae*
Type Locality: "White Mountains, Arizona...Horseshoe Cienega, White Mts., Apache Co., Ariz.; 8000 ft, in dry meadow"
Types: Holotype in CMNH.
- e. **Hesperia colorado mojaviensis** Austin & McGuire, 1998
Syst. W. N. Am. Butterflies (39): 481-482, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Hesperia comma mojaviensis*
Type Locality: "Nevada: Clark County; Spring Mountains, Kyle Canyon Ski Area (or Run), 2225-2400 m"
Types: Holotype in MGCL.
- f. **Hesperia colorado idaho** (W. H. Edwards, 1883)
Can. Entomol. 15(8): 148, 151, no. 5.
Original Combination: [*Pamphila Colorado*] var. *Idaho*
Type Locality: "Oregon, Washington Terr. and California"; defined as "Lake Tahoe, Placer County, California" by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 293-294; subsequently suggested to be "the lowlands at Doyle in Lassen Co. Calif." by Scott (1998), Papilio (n.s.) 11: 8.
Types: Lectotype in CMNH, designated by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 127; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 52, fig. 3 ♂ D and F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 295, fig. 23 ♂ D&V.
- g. **Hesperia colorado leussleri** Lindsey, 1940
Ann. Entomol. Soc. Am. 33(2): 373-374.
Original Combination: *Hesperia colorado* form *leussleri*
Type Locality: "Warner's Hot Springs, San Diego Co., Cal." [California]
Types: Holotype probably in CMNH; figured by Lindsey (1942), Denison Univ. Bull., J. Sci. Lab. 37(1/2): pl. 5, figs. 1 ♂ V.
- h. **Hesperia colorado tildeni** H. Freeman, 1956
Lepid. News 9(6): 196-198, pl., top row ♂ D&V (holotype), bottom row ♀ D&V.
Original Combination: *Hesperia tildeni*
Type Locality: "Cherry Flat Reservoir, Santa Clara County, California"
Types: Holotype in AMNH.
- i. **Hesperia colorado harpalus** (W. H. Edwards, 1881)
Trans. Am. Entomol. Soc. 9(1): 3-4.
Original Combination: *Pamphila Harpalus*
Type Locality: "Nevada"; defined as "vicinity of Carson City, Ormsby County, Nevada" by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 288-290; suggested to be "Sierra Nevada Mts., west of Carson City" by Scott (1998), Papilio (n.s.) 11: 7.
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 289, fig. 20 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 52, fig. 19 ♂ D.

As first reviser, Lindsey (1942), Denison Univ. Bull., J. Sci. Lab. 37(1/2): 24, gave priority to *harpalus* over *cabelus* (below).

= *cabelus* (W. H. Edwards, 1881)
Trans. Am. Entomol. Soc. 9(1): 4.

Original Combination: *Pamphila Cabelus*

Type Locality: "Nevada"; defined as "vicinity of Carson City, Ormsby County, Nevada" by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 290; suggested to be "Sierra Nevada Mts., west of Carson City" by Scott (1998), Papilio (n.s.) 11: 8; corrected to "California, probably west of the Sierra Nevada" by Austin (1998), Syst. W. N. Am. Butterflies (50): 630.

Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 291, fig. 21 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 52, fig. 17 ♂ D (lectotype), 18 ♂ V (paralectotype).

= *yosemite* Leussler, 1933
Entomol. News 44: 169-170.

Original Combination: *Hesperia yosemite*

Type Locality: "near Yosemite, Calif." [Mariposa County, California]

Types: Holotype in OSU.

j. ***Hesperia colorado oregonia*** (W. H. Edwards, 1883)
Can. Entomol. 15(8): 150.

Original Combination: [*Pamphila*] *Oregonia*

Type Locality: "north California...Nevada"; defined as "Trinity County, California" by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 291-292; suggested to be "Sierra Nevada Mts., west of Carson City" by Scott (1998), Papilio (n.s.) 11: 8, but this was not acceptable to Shapiro and Forister (2005), J. Lepid. Soc. 59(3): 164 or A. Warren (2005), Butterflies Ore.: 39-40, who employed F. Brown and L. Miller's definition.

Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 293, fig. 22 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 52, fig. 5 ♂ D (lectotype), 6 ♀ D (paralectotype).

k. ***Hesperia colorado mattoonorum*** McGuire, 1998
Syst. W. N. Am. Butterflies (37): 464-465, figs. 16 ♂ D, 17 ♂ V; 18 ♀ D, 19 ♀ V.

Original Combination: *Hesperia comma mattoonorum*

Type Locality: "Low Divide Road (County Rd. 308) at High Divide, 6 air miles E of Hwy. 101 at Smith River, 2,300 ft. elevation, Del Norte County, California"

Types: Holotype in CAS.

l. ***Hesperia colorado dodgei*** (E. Bell, 1927)
J. N. Y. Entomol. Soc. 35(2): 175.

Original Combination: *Pamphila juba* race *dodgei*

Type Locality: "Santa Cruz, California" [Sant Cruz County]

Types: Holotype in AMNH.

215. ***Hesperia woodgatei*** (R. Williams, 1914)
Entomol. News 25(6): 266, no. 71.

Original Combination: *Pamphila woodgatei*

leonardus group MacNeill, 1964
Univ. Calif. Publ. Entomol. 35: 134-135.

- 216. *Hesperia ottoe*** W. H. Edwards, 1866
Proc. Entomol. Soc. Philad. 6(2): 200, 207, no. 7.
Original Combination: *Hesperia Ottoe*
Type Locality: "Kansas"
Types: Holotype in CMNH; figured by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): fig. 18 ♂ D&V.
- 217. *Hesperia leonardus*** T. Harris, 1862
- a. *Hesperia leonardus leonardus*** T. Harris, 1862
Ins. injur. Veget. (3rd ed.): 314-315, fig. 138 ♂ D&V.
Original Combination: *Hesperia Leonardus*
Type Locality: "Massachusetts" implied from the title of the first edition of the book; stated to be "Massachusetts" by Morris (1862), Smithsonian Misc. Coll. [4]: 110, no. 16. Reverend L. W. Leonard lived in Boston.
Types: Syntypes (#26350) in MCZ.
- = *lidia* Plötz, 1882
Stettiner Entomol. Ztg. 44(1-3): 64, no. 394; cited unpublished pl. 607.
Original Combination: [*Hesperia*] *Lidia*
Type Locality: Not stated.
Types: Type(s) may be in ZSMC or lost.
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 144, suggested that this is a "var. of *Limochores manataqua* Scudd.", through an examination of the unpublished drawing made by Plötz; however, Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 324, considered this a synonym of *Hesperia leonardus* on the same basis. This name may best be considered a *nomen dubium*.
- = *liberia* Plötz, 1883
Stettiner Entomol. Ztg. 44(4-6): 220, no. 473; cited unpublished pl. 661.
Original Combination: [*Hesperia*] *Liberia*
Type Locality: Not stated.
Types: Type(s) may be in ZSMC or lost.
Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 320, considered this a senior synonym of *Hesperia woodgatei* (R. Williams, 1914); however there is little support for that notion.
- = *stallingsi* H. Freeman, 1944
Bull. Brooklyn Entomol. Soc. 38(5): 153-154.
Original Combination: *Hesperia leonardus stallingsi* new form
Type Locality: "Blendon, Franklin Co., Ohio"
Types: Holotype in AMNH.
- b. *Hesperia leonardus pawnee*** Dodge, 1874
Can. Entomol. 6(3): 44-45.
Original Combination: *Hesperia pawnee*
Type Locality: "Glencoe, Nebraska, upon high rolling prairie" [Dodge County]

- Types:** A syntype (#16583) in MCZ; a syntype figured by W. Holland (1931), *Butterfly Book* (rev. ed.): pl. 52, fig. 30 ♂ D.
 = *ogallala* (Leussler, 1921)
 Entomol. News 32(7): 206-207.
Original Combination: *Pamphila ogallala*
Type Locality: "Omaha, Nebraska" [Douglas County]
Types: Holotype in OSU; "paratypes" figured by W. Holland (1931), *Butterfly Book* (rev. ed.): pl. 73, figs. 20 ♂ D, 21 ♂ V.
- c. ***Hesperia leonardus montana*** (Skinner, 1911)
 Entomol. News 22(9): 413.
Original Combination: *Pamphila pawnee montana*
Type Locality: "Colorado"; defined in error as "Chaffee Co., 7500" by Gillham and Ehrlich (1954), *Trans. Am. Entomol. Soc.* 80(3/4): 110; subsequently defined as "Buffalo Creek, Jefferson County, Colorado" by Scott and Stanford (1983), *J. Res. Lepid.* 20(1): 27-28.
Types: Lectotype (#7086) in CMNH, designated by Scott and Stanford (1983), *J. Res. Lepid.* 20(1): 27; a paralectotype figured by W. Holland (1931), *Butterfly Book* (rev. ed.): pl. 52, fig. 29 ♂ D.
218. ***Hesperia pahaska*** Leussler, 1938
- a. ***Hesperia pahaska pahaska*** Leussler, 1938
 Entomol. News 49(1): 5-6.
Original Combination: *Hesperia pahaska*
Type Locality: "canyon region of Sioux County near the town of Harrison, Nebraska"
Types: Holotype in OSU.
- b. ***Hesperia pahaska williamsi*** Lindsey, 1940
Ann. Entomol. Soc. Am. 33(2): 375-376.
Original Combination: *Hesperia pahaska* form *williamsi*
Type Locality: "Baboquivari Mts., Pima Co., Ariz."
Types: Holotype in CMNH (description says ANSP).
- c. ***Hesperia pahaska martini*** MacNeill, 1964
Univ. Calif. Publ. Entomol. 35: 148-150, pl. 1, figs. 7 ♂ D, 8 ♂ V, 9 ♀ D (including holotype?), figs. 5 larval setal pattern, 6 larval head capsule, 7 larval head capsule, 26 ♀ genitalia, pl. 6 egg.
Original Combination: *Hesperia pahaska martini*
Type Locality: - "4.5 miles southeast of Ivanpah, New York Mtns., San Bernardino Co., Calif."
Types: Holotype in CAS.
219. ***Hesperia columbia*** (Scudder, 1872)
 4th Ann. Rep. Peabody Acad. Sci. (1871): 77, no. 2; figured (as *Pamphila sylvanoides*) by Scudder (1874), *Mem. Boston Soc. Nat. Hist.* 2(3)(4): pl. 10, fig. 22 ♂ D&V.
Original Combination: *P[amphila]. Columbia*
Type Locality: "California (Henry Edwards)"
Types: Holotype (#15298) in MCZ.
 = *california* (W. G. Wright, 1905)
Butterflies W. Coast: 65, no. 423; 241, no. 423, pl. 31, figs. 423 ♂ D (lectotype), 423b ♀ D, 423c ♂ V.
Original Combination: [*Pamphila*] *California*; *Pamphila California* n. s.
Type Locality: "Southern California"

metea group MacNeill, 1964
Univ. Calif. Publ. Entomol. 35: 151-152.

Types: Lectotype (#4321) in CAS, designated by MacNeill (1964), Univ. Calif. Publ. Entomol. 35: 142.
= *erynnioides* (Dyar, 1907)
J. N. Y. Entomol. Soc. 15(1): 50-51.
Original Combination: *Thymelicus erynnioides*
Type Locality: "Monterey Co., California"
Types: Holotype (#10252) in USNM.

220. **Hesperia metea** Scudder, 1863
- a. **Hesperia metea metea** Scudder, 1863
Proc. Essex Inst. 3: 177-178, no. 79; figured by Scudder (1889), Butterflies E. U. S. & Can. 3(12): pl. 10, fig. 5 ♂ D&V, 11 ♀ D.
Original Combination: *Hesperia Metea*
Type Locality: "Conn." [Connecticut]
Types: Holotype in AMNH.
- b. **Hesperia metea intermedia** Gatrell, 2003
Tax. Rep. Int. Lepid. Surv. 4(3): 4-5, figs. 7 ♂ D&V (holotype), 8 ♀ D&V.
Original Combination: *Hesperia metea intermedia*
Type Locality: "South Carolina: Pickens County, visc. [sic!] Lake Issaqueena"
Types: Holotype in MGCL.
- c. **Hesperia metea licinus** (W. H. Edwards, 1871)
Trans. Am. Entomol. Soc. 3(3/4): 266, 275, no. 18.
Original Combination: *Pamphila Licinus*
Type Locality: "near Waco, Texas" [McLennan County]
Types: Holotype in CMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 52, fig. 28 ♂ D, and F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): fig. 24 ♂ D&V.
As first reviser, H. Freeman (1948), Entomol. News 59(8): 205, gave *licinus* priority over *horus* (below).
= *horus* (W. H. Edwards, 1871)
Trans. Am. Entomol. Soc. 3(3/4): 266, 277, no. 22.
Original Combination: *Pamphila Horus*
Type Locality: "Dallas, Texas" [Dallas County]
Types: Holotype (#8975) in MCZ; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 75, fig. 14 ♀ V, and F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): fig. 25 ♀ D&V.
= *belfragei* H. Freeman, 1944
Field & Lab. 12(1): 20.
Original Combination: *Hesperia metea belfragei* new form
Type Locality: "Cedar Hill, Dallas County, Texas"
Types: Holotype in AMNH.
221. **Hesperia viridis** (W. H. Edwards, 1883)
Can. Entomol. 15(8): 147.
Original Combination: [*Pamphila Juba*] var. *Viridis*
Type Locality: "Los [sic!] Vegas, N. M."; holotype labeled "Las Vegas, N. M. 7000 ft" [San Miguel County, New Mexico]
Types: Holotype in SEMC, figured by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): fig. 19 ♂ D&V.
222. **Hesperia attalus** (W. H. Edwards, 1871)
- a. **Hesperia attalus attalus** (W. H. Edwards, 1871)
Trans. Am. Entomol. Soc. 3(3/4): 266, 276, no. 19.

Original Combination: *Pamphila Attalus*

Type Locality: "near Waco, Texas" [McLennan County]

Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 282, fig. 15 ♀ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 52, fig. 24 ♀ V.

= *seminole* (Scudder, 1872)

4th Ann. Rep. Peabody Acad. Sci. (1871): 77, no. 2.

Original Combination: *O[cytes]. Seminole*

Type Locality: "Florida to Texas"

Types: Syntypes (#8971) in MCZ.

Scudder (1889), Butterflies E. U. S. & Can. 3(10): pl. 17, fig. 9 ♀ D, figured a specimen from Texas, which he claimed was drawn from the "type."

= ♀ "quaiapen" (Scudder, 1889)

Butterflies E. U. S. & Can. 2(11): 1655.

Original Combination: *Erynnis attalus*

quaiapen dimorphic form [♀]

Type Locality: Not stated.

Types: Type(s) may be in MCZ.

b. *Hesperia attalus nigrescens* Gatrell, 1999

Tax. Rep. Int. Lepid. Surv. 1(10): 12, figs. 23 ♂ D, 28 ♂ V (holotype); 24 ♀ D, 29 ♀ V.

Original Combination: *Hesperia attalus nigrescens*

Type Locality: "South Carolina: Horry County"

Types: Holotype in CMNH.

c. *Hesperia attalus slossonae* (Skinner, 1890)

Entomol. Am. 6(7): 138.

Original Combination: *Pamphila slossonae*

Type Locality: "Florida"

Types: Syntypes (#7765) in CMNH.

ungrouped species Burns, 1987

J. Lepid. Soc. 41(4): 176-177. Burns suggested that *H. sassacus*, *H. miriamae* and *H. nevada* may be closely related, and that *H. meskei* may be most closely related to the *metea* group of species.

223. *Hesperia meskei* (W. H. Edwards, 1877)

a. *Hesperia meskei meskei* (W. H. Edwards, 1877)

Can. Entomol. 9(3): 58-59.

Original Combination: *Pamphila Meskei*

Type Locality: "Bastrop Co., Texas"

Types: Holotype in CMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 52, fig. 33 ♀ D, and F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): fig. 16 ♀ D&V.

b. *Hesperia meskei straton* (W. H. Edwards, 1881)

Papilio 1(5): 78.

Original Combination: *Pamphila straton*

Type Locality: "Indian River" [Brevard County, Florida]

Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 285, fig. 17 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 52, figs. 32 ♂ D (paralectotype), 34 ♂ V (lectotype).

c. *Hesperia meskei pinocayo* Gatrell & Minno, 2003

Tax. Rep. Int. Lepid. Surv. 4(3): 6, figs. 1 ♂ D&V (holotype), 2 ♀ D&V.

Original Combination: *Hesperia meskei pinocayo*

Type Locality: "Florida: Monroe County, Big Pine Key"

Types: Holotype in MGCL.

224. **Hesperia dacotae** (Skinner, 1911)
Entomol. News 22(9): 412.
Original Combination: *Pamphila sassacus dacotae*
Type Locality: "Volga, South Dakota" [Brookings County]
Types: Syntype (#7087, labeled as "holotype", from Volga) in CMNH; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 52, fig. 22 ♂ D.
225. **Hesperia lindseyi** (W. Holland, 1930)
a. **Hesperia lindseyi lindseyi** (W. Holland, 1930)
Ann. Carnegie Mus. 19(3): 158-159.
Original Combination: *Erynnis lindseyi*
Type Locality: "Nellie, California...Ukiah, Calif."; holotype from "Napa Co." as reported by MacNeill (1964), Univ. Calif. Publ. Entomol. 35: 161. [Napa County, California]
Types: Holotype in CMNH, figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 73, figs. 10 ♂ D (holotype), 11 ♀ D (paratype).
b. **Hesperia lindseyi macneilli** J. Emmel, T. Emmel & Mattoon, 1998
Syst. W. N. Am. Butterflies (38): 475-476, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.
Original Combination: *Hesperia lindseyi macneilli*
Type Locality: "California: Mendocino County; Branscomb Rd. at Laytonville, 1645"
Types: Holotype in LACM.
c. **Hesperia lindseyi eldorado** J. Emmel, T. Emmel & Mattoon, 1998
Syst. W. N. Am. Butterflies (38): 476-477, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.
Original Combination: *Hesperia lindseyi eldorado*
Type Locality: "California: El Dorado County; west slope Sierra Nevada; Meadow Brook barrens, Traverse Creek; T.12N., R.10E., Sec. 24"
Types: Holotype in LACM.
d. **Hesperia lindseyi septentrionalis** J. Emmel, T. Emmel & Mattoon, 1998
Syst. W. N. Am. Butterflies (38): 477-478, 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.
Original Combination: *Hesperia lindseyi septentrionalis*
Type Locality: "California: Siskiyou Co., Shasta Valley Wildlife Area on Little Shasta River, 4 rd. mi. E. of Montague, 2500 ft. elev.; S.33, T.45N., R.5W"
Types: Holotype in LACM.
e. **Hesperia lindseyi mccorklei** P. Severns & D. Severns, 2005
J. Lepid. Soc. 59(3): 166-167, figs. 1a ♀ D&V (holotype), 1b ♂ D&V.
Original Combination: *Hesperia lindseyi mccorklei*
Type Locality: "Oregon, Douglas County, Hillside north of Jackson Creek Road, 3.8 miles east of the junction with South Umpqua Road (UTMs: N 4755771 m, E 10 514710 m, 1470 ft elevation)"
Types: Holotype in MGCL.
226. **Hesperia sassacus** T. Harris, 1862
a. **Hesperia sassacus nantahala** Gatrell & Grkovich, 2003

Tax. Rep. Int. Lepid. Surv. 4(3): 3, figs. 14 ♂ D&V (holotype), 15 ♀ D&V, 16 ♂ V, 18 ♀ D&V.

Original Combination: *Hesperia sassacus nantahala*

Type Locality: "North Carolina: Clay County, Hwy. 64 at Buck Creek, 3400 ft."

Types: Holotype in MGCL.

b. *Hesperia sassacus sassacus* T. Harris, 1862

Ins. injur. Veget. (3rd ed.): 315.

Original Combination: *Hesperia Sassacus*

Type Locality: "Cambridge" [Middlesex County, Massachusetts]

Types: Holotype (#26349) in MCZ.

‡"incerta" (Scudder, 1863)

Proc. Essex Inst. 3: 173, under no. 70.

Original Combination: *H[esperia]. incerta*

Scudder compared *Hesperia sassacus* with "*H. incerta*"; this name has never been used otherwise and is a *nomen nudum*.

c. *Hesperia sassacus manitoboides* (Fletcher, 1889)

Ann. Rep. Entomol. Soc. Ontario 19: 85-86.

Original Combination: *Pamphila Manitoboides*

Type Locality: "Nepigon"; emended to "Nepigon, Ont., and Sudbury, Ont." by Fletcher (1903), Proc. & Trans. R. Soc. Can. (2)9(Sect. IV): 215. [Nipigon, Thunder Bay County, Ontario]

Types: Syntypes in USNM.

The description is of the larva, and might be considered conditional. Fletcher (1903), Proc. & Trans. R. Soc. Can. (2)9(Sect. IV): 214-215, and (1904), Can. Entomol. 36(5): 128-129, redescribed this taxon. Layberry *et al.* (1998), Butterflies Can.: 57, did not recognize this as a subspecies-level taxon.

227. *Hesperia miriamae* MacNeill, 1959

a. *Hesperia miriamae miriamae* MacNeill, 1959

Wasmann J. Biol. 17(1): 90-94, figs. 1A ♂ genitalia, uncus, tegumen and vinculum, 1B ♂ genitalia, valve, 1C ♂ genitalia, tegumen and uncus D.

Original Combination: *Hesperia miriamae*

Type Locality: "Near Mono Pass, northwest Inyo County, California; elevation 12,000 feet"

Types: Holotype in CAS; paratypes figured by MacNeill (1964), Univ. Calif. Publ. Entomol. 35: pl. 1, figs. 10 ♂ D, 11 ♂ V, 12 ♀ D.

b. *Hesperia miriamae longaevicola* McGuire, 1998

Syst. W. N. Am. Butterflies (37): 463, figs. 7 ♂ D, 8 ♂ V; 9 ♀ D, 10 ♀ V.

Original Combination: *Hesperia miriamae longaevicola*

Type Locality: "California, Mono Co.: Mt. Barcroft, 13,400 ft. elevation, White Mountains"

Types: Holotype in CAS.

228. *Hesperia nevada* (Scudder, 1874)

a. *Hesperia nevada nevada* (Scudder, 1874)

Mem. Boston Soc. Nat. Hist. 2(3)(4): 342, 343, 344 key, 345 key, 347-348, no. 2, pl. 10, figs. 1 ♂ D&V (lectotype), 2 ♀ D&V, 3 ♀ D&V, 4 ♂ D&V; pl. 11, figs. 3, 4 ♂ genitalia.

Original Combination: *Pamphila Nevada*

Type Locality: "Colorado...on the mountains about the South Park and in the Park itself" "Nevada, California and Oregon"; lectotype from "Colorado"; defined as "S. Park, Colo." by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 126. [Park County]
Types: Lectotype (#15300) in MCZ, designated by W. Barnes and McDunnough (1916), *ibid*.

b. *Hesperia nevada sierra* Austin, J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butterflies (40): 487-488, figs. 1 upper left ♂ D, 2 upper left ♂ V (holotype); 1 upper right ♀ D, 2 upper right ♀ V.

Original Combination: *Hesperia nevada sierra*

Type Locality: "Nevada: Washoe County; Carson Range, Tahoe Meadows, Nevada State Route 431, 2.4 miles west of Mt. Rose (road) Summit, 2695 m, R18E T17N S25 on USGS Mt. Rose, Nev. 7.5' quadrangle"

Types: Holotype in MGCL.

Genus *Polites* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 78. Type-species: *Hesperia peckius* W. Kirby, 1837, in: Richardson, Fauna Bor.-Am. [4]: 300, pl. 4, figs. 2, 3, by original designation. The generic synonymy follows Burns (1994), J. Lepid. Soc. 48(1): 24-45.

= *Hedone* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 79. Type-species: *Hesperia brettus* Boisduval & Le Conte, [1837], Hist. Lépid. Amér. sept. (25): pl. 75, figs. 3-5 (= *Thymelicus vibex* Geyer, 1832, in: Hübner, Zutr. Samml. exot. Schmett. 4: pl. [118], figs. 685 ♂ D, 686 ♂ V; 22, no. 343; synonym), by original designation.

= *Limochores* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 80. Type-species: *Hesperia manataaqua* Scudder, 1863, Proc. Essex Inst. 3: 175 (= *Hesperia origenes* Fabricius, 1793, Entomol. Syst. 3(1): 328, no. 245; synonym), by original designation.

= *Pyrrosidia* Scudder, 1874

Mem. Boston Soc. Nat. Hist. 2(3)(4): 346 (nota). Type-species: *Hesperia mystic* W. H. Edwards, 1863, Proc. Entomol. Soc. Philad. 2(1): 16, pl. 1, figs. 1, 2, by original designation.

= ‡*Chaerophon* Godman, 1900

In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(156): 462, 474. Type-species: *Pamphila citrus* Mabilie, 1889, Naturaliste (2)3(55): 144-145, fig. 1 (= *Hesperia subreticulata* Plötz, 1883, Stettiner Entomol. Ztg. 44(4-6): 213, no. 454; synonym), by original designation.
 Preoccupied by *Chaerophon* Dobson, 1878, Cat. Chiropt. Brit. Mus.: 431.

= *Poanopsis* Godman, 1900

In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 486. Type-species: *Pamphila puxillius* Mabilie, 1891, Annls. Soc. Entomol. Belg. 35(c.r.)(18): clxx, by original designation.

= *Yvretta* Hemming, 1935

Stylops 4(1): 3. Type-species: *Pamphila citrus* Mabilie, 1889, Naturaliste (2)3(55)[11(55): 144-145, fig. 1 (= *Hesperia subreticulata* Plötz, 1883, Stettiner Entomol. Ztg. 44(4-6): 213, no. 454; synonym), as a replacement name. Proposed to replace *Chaerophon* Godman, 1900, preoccupied (Code Articles 60.3, 67.8).

rhesus group Burns, 1994
J. Lepid. Soc. 48(1): 32-33.

229. **Polites rhesus** (W. H. Edwards, 1878)
Field & Forest 3(7/8): 116.
Original Combination: *Pamphila Rhesus*
Type Locality: "Southern Colorado"; defined as "west of Pueblo, Colorado, along road to Hardscrabble Canyon" by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 274-275. [Pueblo County]
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 275, fig. 10 (labels), 276, fig. 11 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 51, figs. 45 ♂ D (lectotype), 46 ♀ (paralectotype).
= *axius* (Plötz, 1883)
Stettiner Entomol. Ztg. 44(4-6): 213, no. 452; cited unpublished pl. 1448 (nachtrag).
Original Combination: [*Hesperia*] *Axius*
Type Locality: "Colorado"
Types: Type(s) in ZMHB.
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 153, suggested this synonymy through an examination of the unpublished drawing made by Plötz.

230. **Polites carus** (W. H. Edwards, 1883)
Can. Entomol. 15(2): 34.
Original Combination: *Pamphila Carus*
Type Locality: "West Texas"; defined as "Archer County, Texas" by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 276.
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 275, fig. 11 ♀ D&V, 276 (labels); figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 51, fig. 44 ♀ D.

themistocles group MacNeill, 1993
J. Lepid. Soc. 47(3): 178.

231. **Polites peckius** (W. Kirby, 1837)
a. **Polites peckius peckius** (W. Kirby, 1837)
In: J. Richardson, Fauna Bor.-Am. [4]: 300, no. 1, pl. 4, figs. 2 ♂ D, 3 ♂ V.
Original Combination: *Hesperia Peckius*
Type Locality: "taken with the preceding" [*Polyommatus Lucia*] "Lat. 54⁰ⁿ"; suggested to be "NE U.S. or SE Canada" by Scott (2006), Papilio (n.s.) 12: 69.
Types: Type(s) possibly in BMNH.
Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 332, treated *peckius* as a synonym of *coras* (see below); however, Stanford (1981), *in:* Ferris and F. Brown, Butterflies Rocky Mtn. States: 118, and most authors since, used *peckius* as the name for this taxon (but see Mielke (2004), *in:* Lamas, Atl. Neotrop. Lepid. Chcklst. Part 4A: 77, and (2005), Cat. Amer. Hesp. 5: 1206-1209). In accordance with current usage, Stanford's arrangement is followed.
= ‡*coras* (Cramer, 1775)
Uitl. Kapellen 1(3): 51-52, pl. 31, fig. F ♀ D; (8): 152 (index).

Original

Combination: *Pap[ilio]. Pleb[ejus]. Urbicola Coras*

Type Locality: "Surinamen" "Suriname", possibly in error.

Types: Type(s) probably lost.

This name was resurrected from obscurity by Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 332, who applied it as a senior synonym of *peckius*. Cramer's figure is not recognizable as this taxon, and the given locality is not within its range as currently known. The locality could be erroneous, since many Cramer names are given this consideration; however, it is not possible to prove that the figure represents this taxon, so the name *coras* is best considered a *nomen dubium*.

= *wamsutta* (T. Harris, 1862)

Ins. injur. Veget. (3rd ed.): 318, fig. 141 ♂ D&V.

Original Combination: *Hesperia Wamsutta*

Type Locality: "Massachussets" implied from the title of the first edition of the book; stated to be "Massachusetts" by Morris (1862), Smithsonian Misc. Coll. [4]: 111-112, no. 20.

Types: Syntype (#26351) in MCZ.

‡"enys" (Butler, 1870)

Entomol. Mon. Mag. 7(76): 93.

Original Combination: [*Pamphila*] *Enys*

Butler mentioned "*Pamphila enys*" without a description or indication; a *nomen nudum*.

b. Polites peckius surllano Scott, 2006

Papilio (n.s.) 12: 69, pl. 4, 4th row right ♂ D&V (holotype).

Original Combination: *Polites peckius surllano*

Type Locality: "Green Mountain, Jefferson Co. Colorado"

Types: Holotype in BMNH.

232. Polites sabuleti (Boisduval, 1852)

a. Polites sabuleti sabuleti (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 316-317, no. 80; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, figs. 2091 ♂ D&V, 2092 ♀ D&V.

Original Combination: *Hesperia Sabuleti*

Type Locality: "Californie" implied from the title of the paper; defined as "general region between San Francisco and Eldorado County, California" by Austin (1987), Bull. Allyn Mus. (109): 2; further defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 23.

Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 23, figs. 150 ♂ D, 151 ♂ V.

b. Polites sabuleti channelensis J. Emmel & T. Emmel, 1998

Syst. W. N. Am. Butterflies (24): 317-318, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Polites sabuleti channelensis*

Type Locality: "California: Santa Barbara County; Santa Rosa Island; China Camp, 50' elevation"

- Types:** Holotype in LACM.
- c. **Polites sabuleti aestivalis** J. Emmel, T. Emmel & Mattoon, 1998
Syst. W. N. Am. Butterflies (15): 201-202, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Polites sabuleti aestivalis*
Type Locality: "California: Trinity County; Highway 3 near Dan Rice Creek, southeast of Scott Mtn. Summit"
Types: Holotype in LACM.
- d. **Polites sabuleti tecumseh** (F. Grinnell, 1903)
Entomol. News 14(1): 11.
Original Combination: *Pamphila sabuleti* var. *tecumseh*
Type Locality: "Little Crabtree Meadow near Mt. Whitney" [California]
Types: Syntypes may be in CAS.
= *chispa* (W. G. Wright, 1905)
Butterflies W. Coast: 66, no. 441; 247, no. 441, pl. 31, figs. 441 ♂ D (lectotype), 441b ♀ D, 441c ♂ V.
Original Combination: [*Pamphila*] *Chispa*; *Pamphila Chispa* n. s.
Type Locality: "Sierra Nevadas of California" "Sierra Nevadas of Central California"
Types: Lectotype (#4323) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. No. 118: 40.
Austin (1987), Bull. Allyn Mus. (109): 6, discussed this name and concluded that its taxonomic status is uncertain.
- e. **Polites sabuleti albamontana** Austin, 1987
Bull. Allyn Mus. (109): 6-7, figs. 2a second row ♂ ♀ D, 2b second row ♂ ♀ V (holotype is ♂).
Original Combination: *Polites sabuleti albamontana*
Type Locality: "Nevada: Esmeralda County; White Mountains, Trail Canyon, 9000', T1S, R33E, S9, 10, 17"
Types: Holotype in MGCL.
- f. **Polites sabuleti genoa** (Plötz, 1883)
Stettiner Entomol. Ztg. 44(4-6): 207, no. 435; cited unpublished pl. 1446 (nachtrag).
Original Combination: [*Hesperia*] *Genoa*
Type Locality: "Nevada"; suggested to be "near Genoa...Carson River Valley, Douglas Co." by Austin (1987), Bull. Allyn Mus. (109): 3.
Types: Type(s) may be in ZSMC, ZMHB, or lost.
- g. **Polites sabuleti alkaliensis** Austin, 1987
Bull. Allyn Mus. (109): 4-5, figs. 2a third row ♂ ♀ D, 2b third row ♂ ♀ V (holotype is ♂).
Original Combination: *Polites sabuleti alkaliensis*
Type Locality: "Nevada: Washoe County; Granite Mountains, (Fortynine Mountain), Nevada State Route 8A, 1.3 mi west of Nevada State Route 34, 5950', T24N, R19E S8, located on USGS Vya, Nevada, 7.5' quadrangle"
Types: Holotype in MGCL.
- h. **Polites sabuleti sinemaculata** Austin, 1987
Bull. Allyn Mus. (109): 7-9, figs. 2a first row ♂ ♀ D, 2b first row ♂ ♀ V (holotype is ♂).
Original Combination: *Polites sabuleti sinemaculata*

Type Locality: "Nevada: Humboldt County; Baltazor Hot Spring, Nevada State Route 140, 5.0 miles west of Denio Junction, 4213', T46N, R28E, S13 on USGS Denio, Nevada-Oregon, 15' quadrangle"

Types: Holotype in MGCL.

i. **Polites sabuleti basinensis** Austin, 1988

Bull. Allyn Mus. (120): 1.

Original Combination: *Polites sabuleti basinensis*

Proposed to replace *Polites sabuleti pallida* Austin, 1987, preoccupied, with the same data (Code Article 60.3).

= ~~†~~*pallida* Austin, 1987

Bull. Allyn Mus. (109): 9-10, figs. 2a bottom row

♂ ♀ D, 2b bottom row ♂ ♀ V (holotype is ♂).

Original Combination: *Polites sabuleti pallida*

Type Locality: "Nevada: Lander County; Reese River Valley, Nevada State Route 722 (formerly Nevada State Route 2), 4.0 miles (north) east of Reese River, 5720', T19N, R43E, S32 on USGS Austin, Nevada, 15' quadrangle. This is an expansive alkaline flat"

Types: Holotype in MGCL.

Secondarily preoccupied by *Pamphila pallida* Skinner, 1911, Entomol. News 22(9): 412.

j. **Polites sabuleti nigrescens** Austin, 1987

Bull. Allyn Mus. (109): 10-12, figs. 2a fourth row ♂ ♀ D, 2b fourth row ♂ ♀ V (holotype is ♂), 4a ♂ ♀ V, 4b ♂ ♀ D.

Original Combination: *Polites sabuleti nigrescens*

Type Locality: "Nevada: White Pine County; Steptoe Valley, Warm Springs, 5900', T21N, R63E, S25 on the USGS Monte Neva Hot Springs, Nevada, 7.5' quadrangle. This is a flat valley bottom"

Types: Holotype in MGCL.

k. **Polites sabuleti chusca** (W. H. Edwards, 1873)

Trans. Am. Entomol. Soc. 4(4): 346.

Original Combination: *Hesperia Chusca*

Type Locality: "Arizona"; suggested to be "probably northern Mohave County, Arizona" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 55.

Types: Holotype in CMNH, figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 53, fig. 18 ♂ D, and F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 54, fig. 8 ♂ D&V.

= *comstocki* Gunder, 1925

Entomol. News 36(1): 7-8, no. 12, pl. 1, figs. 4 ♂ D, 4a ♂ V, 5 ♀, 5a ♀ V.

Original Combination: *Polites sabuleti* var. *comstocki*

Type Locality: "El Centro, Imperial County, California"

Types: Holotype in AMNH.

l. **Polites sabuleti ministigma** Scott, 1981

Papilio (n.s.) 1: 9.

Original Combination: *Polites sabuleti ministigma*

Type Locality: "8 mi. W. Crestone, Saguache Co., Colo." [Colorado]

Types: Holotype in LACM.

233. **Polites draco** (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 266, 274-275, no. 17.

Original Combination: *Pamphila Draco*

Type Locality: "Colorado"; defined as "Twin Lakes, Lake Co., Colorado" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 162.

Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 49, fig. 4 ♂ D&V; figured by W. Holland (1931), Butterfly Book: pl. 53, figs. 15 ♂ D (lectotype), 16 ♀ D (paralectotype).

MacNeill (1993), J. Lepid. Soc. 47(3): 180-181, detailed the species-level status of this taxon.

234. **Polites mardon** (W. H. Edwards, 1881)

a. **Polites mardon mardon** (W. H. Edwards, 1881)

Papilio 1(4): 43, 47-48, no. 6.

Original Combination: *Pamphila mardon*

Type Locality: "Mount Hood"; corrected to "the small prairies numerous near Puget Sound, Washington Territory. It was abundant near Tenino" by Morrison (1883), Papilio 3(2): 43; further defined as "Tenino Prairie, Thurston County, Washington" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 53.

Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 54, fig. 7 ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 47, fig. 26 ♂ D (lectotype), and W. Holland (1931), Butterfly Book (rev. ed.): pl. 53, fig. 12 ♀ D (paralectotype).

b. **Polites mardon klamathensis** Mattoon, J. Emmel & T. Emmel, 1998

Syst. W. N. Am. Butterflies (65): 768-770, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Polites mardon klamathensis*

Type Locality: "Oregon: Jackson County; Soda Mountain Road between first and second power transmission line crossing, 3.0 to 3.8 road miles south of Highway 66 at Greensprings summit, 4,500' to 4,800' elevation, T40S-R3E S9 Southern Cascade Range, ca. 12 airline miles southeast of Ashland"

Types: Holotype in LACM.

235. **Polites themistocles** (Latreille, [1824])

a. **Polites themistocles themistocles** (Latreille, [1824])

Ency. méth. 9(Ins.)(2): (723), 769, no. 115.

Original Combination: *Hesperia Themistocles*

Type Locality: "l'Amerique méridionale"

Types: Type(s) possibly in MNHP or BMNH. N. Riley (1926), Trans. Entomol. Soc. Lond. 74(2): 239, claimed that *themistocles* was proposed to replace *Papilio taumas* Fabricius, 1787; if so, then the type data for *taumas* would replace those for *themistocles*.

= ‡*taumas* (Fabricius, 1787)

Mantissa Ins. 2: 84, no. 746.

Original

Combination: *P[apilio]. P[lebejii]. U[rbicolae]. T aumas*

Type Locality: "America boreali"

Types: Syntype in ZMUC.

Preoccupied by *Papilio taumas* Hufnagel, 1766, Berl. Mag. 2: 62 (Code Article 58.11).

- = ‡*phocion* (Fabricius, 1798)
Entomol. Syst. Suppl.: 431.
Original Combination: *Hesperia*
U[rbicolae]. Phocion
Type Locality: "America meridionali"
Types: Syntype in ZMUC.
Preoccupied by *Hesperia phocion* Fabricius,
1793, Entomol. Syst. 3(1): 335, no. 274.
- = *cernes* (Boisduval & Le Conte, [1837])
Hist. Lépid. Amér. sept. (26): pl. 76, figs. 1 ♂ D, 2 ♂
V.
Original Combination: *Hesperia Cernes*
Type Locality: Not stated (there is no text);
"l'Amérique septentrionale" implied from the title of
the book.
Types: Types are the specimens illustrated by Émile
Blanchard, probably from Boisduval's collection.
Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 328,
stated that the "type" is in the BMNH, but Calhoun
(2004), J. Lepid. Soc. 58(3): 156, discussed the
dubious nature of such Boisduval "types."
- = *ahaton* (T. Harris, 1862)
Ins. injur. Veget. (3rd ed.): 317, fig. 140 ♀ D&V.
Original Combination: *Hesperia Ahaton*
Type Locality: "Milton" [Norfolk County,
Massachusetts]
Types: Syntypes in MCZ.
- b. **Polites themistocles turneri** H. Freeman, 1944
Entomol. News 55(2): 47-48.
Original Combination: *Polites themistocles turneri*
Type Locality: "Jesmond, British Columbia"
Types: Holotype in AMNH.

baracoa group MacNeill, 1993
J. Lepid. Soc. 47(3): 177-178.

236. **Polites baracoa** (Lucas, 1857)
- a. **Polites baracoa baracoa** (Lucas, 1857)
In: Sagra, Hist. Cuba 7(2): 650.
Original Combination: *Hesperia Baracoa*
Type Locality: "dans l'île de Cuba"
Types: Syntype in MNHP.
 - = *amadis* (Herrich-Schäffer, 1863)
Corresp.-Bl. zool.-min. Ver. Regensburg 17(9): 142.
Original Combination: *Pamphila Amadis*
Type Locality: "Cuba" implied from the title of the
paper.
Types: Syntype (#7149) in ANSP.
 - = *myus* (French, 1885)
Can. Entomol. 17(1): 33-34.
Original Combination: *Pamphila myus*
Type Locality: "Florida"
Types: Location of type(s) not known (USNM?).

origenes group MacNeill, 1993
J. Lepid. Soc. 47(3): 178.

237. **Polites origenes** (Fabricius, 1793)
- a. **Polites origenes origenes** (Fabricius, 1793)
Entomol. Syst. 3(1): 328, no. 245; cited Jones' Icones 6:
pl. 74, fig. 2; figured by Donovan (1800), Epit. Ins. India:
pl. [48], fig. 2 (a copy from Jones' Icones).

Original Combination: *H[esperia]. U[rbicola]. Origenes*

Type Locality: "Indiis"

Types: Type(s) lost, name based on Jones' figure.

This name was resurrected from obscurity by Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 328, based on the unpublished figures in "Jones' Icones" in OMU, and has generally been used since. Calhoun (2009), News Lepid. Soc. 51(4): 119-123, 9 figs, neatly summarizes all of the issues and confirms this treatment.

= *manataaqua* (Scudder, 1863)

Proc. Essex Inst. 3: 175-176, no. 74; figured by Scudder (1889), Butterflies E. U. S. & Can. 3(12): pl. 10, fig. 5 ♂ D&V, 11 ♀ D.

Original Combination: *Hesperia Manataaqua*

Type Locality: "Massachusetts...Georgia"

Types: Syntypes (#15303) in MCZ.

b. Polites origenes rhena (W. H. Edwards, 1878)

Field & Forest 3(7/8): 115-116.

Original Combination: *Pamphila Rhena*

Type Locality: "Southern Colorado"; defined as "vicinity of Pueblo, Pueblo Co., Colorado" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 47.

Types: Holotype in CMNH, figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 47, fig. 3 ♂ D&V.

= *alcina* (Skinner, 1893)

Entomol. News 4(6): 212-213; figured by Skinner (1900), Entomol. News 11(4): pl. 2, fig. 25 ♂ D.

Original Combination: *Pamphila alcina*

Type Locality: "Colorado"

Types: Syntypes (#7090) in CMNH and FMNH; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 53, fig. 5 ♂ D.

238. Polites mystic (W. H. Edwards, 1863)

a. Polites mystic mystic (W. H. Edwards, 1863)

Proc. Entomol. Soc. Philad. 2(1): 14, 15-16, no. 3, pl. 1, figs. 3 ♂ D, 4 ♀ D&V.

Original Combination: *Hesperia Mystic*

Type Locality: "Connecticut; Michigan; Canada West"; neotype from "Hunter, Greene Co., New York."

Types: Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 51, fig. 5 ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 46, fig. 22 ♂ D.

This name was also proposed by Scudder (1863), Proc. Essex Inst. 3: 172, and was credited to Scudder by many subsequent authors.

= ‡"mystic" (Scudder, 1863)

Proc. Essex Inst. 3: 172-173, no. 69.

Original Combination: *Hesperia Mystic*

Type Locality: "White Mountains to Maryland"

Types: Syntypes in MCZ.

Preoccupied by *Hesperia mystic* Edwards, 1863.

The question of authorship was settled by F.

Brown (1980), J. Lepid. Soc. 34(1): 74-75.

= ‡"weetamoo" (Scudder, 1889)

Butterflies E. U. S. & Can. 2(11): 1707.

Original Combination: *Thymelicus mystic weetamoo* melanic variety

Type Locality: Not stated.

Types: "Holotype" was from Lintner and may be in NYSM.

= ♀ "nubs" (Scudder, 1889)
Butterflies E. U. S. & Can. 2(11): 1707.

Original Combination: *Thymelicus mystic nubs*

Type Locality: Not stated.

Types: "Holotype" may be in MCZ.

While the text clearly describes this taxon as infrasubspecific, it was proposed as a trinomial and might be considered available.

b. Polites mystic dacotah (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 266, 277, no. 21.

Original Combination: *Hesperia Dacotah*

Type Locality: "Colorado"; defined as "Georgetown, Clear Creek County, Colorado" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 52.

Types: Holotype in CMNH, figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 53, fig. 23 ♂ D, and F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): fig. 8 ♂ D&V.

Layberry *et al.* (1998), Butterflies Can.: 61, did not recognize this as a subspecies-level taxon.

= *pallida* (Skinner, 1911)
Entomol. News 22(9): 412.

Original Combination: *Pamphila mystic pallida*

Type Locality: "Volga, South Dakota" [Brookings County]

Types: Syntypes (#7091) in CMNH.

239. Polites sonora (Scudder, 1872)

a. Polites sonora siris (W. H. Edwards, 1881)

Papilio 1(4): 43, 47, no. 7.

Original Combination: *Pamphila siris*

Type Locality: "Mount Hood"; corrected to "the small prairies numerous near Puget Sound, Washington Territory. It was abundant near Tenino" by Morrison (1883), Papilio 3(2): 43; further defined as "Tenino Prairie, Thurston Co., Washington" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 46.

Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 46, fig. 2 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 53, fig. 9 ♂ D.

b. Polites sonora sonora (Scudder, 1872)

4th Ann. Rep. Peabody Acad. Sci. (1871): 78, no. 3.

Original Combination: *O[chlodes]. Sonora*

Type Locality: "Sierra Nevada (Henry Edwards), California"

Types: Syntype (#15826) in MCZ.

c. Polites sonora flavaventris Austin, 1998

Syst. W. N. Am. Butterflies (43): 525, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.

Original Combination: *Polites sonora flavaventris*

Type Locality: "Nevada: Humboldt County; Pine Forest Range, Blue Lake Road, 6.7 road miles west of Nevada

state route 140, Alta Creek Basin, 1829 m, T45N R30E S7 on USGS Denio, Nev.-Ore. 15' quadrangle"

Types: Holotype in MGCL.

- d. **Polites sonora longinqua** Austin, 1998
Syst. W. N. Am. Butterflies (43): 525-526, figs. 13 ♂ D, 14 ♂ D (holotype); 15 ♀ D, 16 ♀ V.

Original Combination: *Polites sonora longinqua*

Type Locality: "Nevada: Esmeralda County; White Mountains, Trail Canyon, 2620 m, T1S R33E S10 on USGS Davis Mountain, Nev.-Calif. 15' quadrangle"

Types: Holotype in MGCL.

- e. **Polites sonora utahensis** (Skinner, 1911)

Entomol. News 22(9): 413.

Original Combination: *Pamphila sylvanoides utahensis*

Type Locality: "Park City, Utah" [Summit County]

Types: Syntypes (#7099, labeled as "holotype") in CMNH; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 53, fig. 13 ♂ V.

vibex group MacNeill, 1993
J. Lepid. Soc. 47(3): 178.

240. **Polites vibex** (Geyer, 1832)

- a. **Polites vibex vibex** (Geyer, 1832)

In: Hübner, Zutr. Samml. exot. Schmett. 4: pl. [118], figs. 685 ♂ D, 686 ♂ V [1826]; (text): 22, no. 343 (1832, name given).

Original Combination: *Thymelicus Vibex*

Type Locality: "West Indies"

Types: Type probably lost.

Hübner [1819], Verz. bekannt. Schmett. (7): 113, mentioned *T. vibex* without a description or indication; a *nomen nudum*.

= *brettus* (Boisduval & Le Conte, [1837])

Hist. Lépid. Amér. sept. (25): pl. 75, figs. 3 ♀ D, 4 ♀ D, 5 ♀ V.

Original Combination: *Hesperia Brettus*

Type Locality: Not stated; "l'Amérique septentrionale" implied from the title of the book.

Types: Types are the specimens illustrated by Émile Blanchard, probably from Boisduval's collection, possibly in MNHP or BMNH.

= *wingina* (Scudder, 1863)

Proc. Essex Inst. 3: 173-174, no. 71.

Original Combination: *Hesperia Wingina*

Type Locality: "southern portions of N. England"

Types: Syntypes in MCZ.

= *morganta* (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 203, no. 426; cited unpublished pl. 1444 (nachtrag).

Original Combination: [*Hesperia*] *Morganta*

Type Locality: "Süd-Amerika", in error; corrected to "North America" by Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 153.

Types: Holotype may be in ZSMC or lost.

Godman (1907), *ibid.*, determined this synonymy through an examination of the unpublished drawing made by Plötz.

= *unna* (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 204, no. 429; cited unpublished pl. 637.

Original Combination: [*Hesperia*] *Unna*

Type Locality: "Philadelphia" [Philadelphia County, Pennsylvania]

Types: Holotype may be in ZSMC or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116):

144, determined this synonymy (under *brettus*)

through an examination of the unpublished drawing made by Plötz.

‡"margarita" (Draudt, 1923)

In: Seitz, Grossschmett. Erde 5(332): 931.

Original Combination: [*Thymelicus*] *margarita*

Draudt cited this as a Plötz name in the synonymy of *brettus*, without a description or indication; a *nomen nudum*.

b. *Polites vibex brettoides* (W. H. Edwards, 1883)

Papilio 3(4): 71-72.

Original Combination: *Pamphila Brettoides*

Type Locality: "West Texas...Graham Mountains, Arizona"; lectotype from "Texas"; defined as "vicinity of Archer County, Texas" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 44.

Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 45, fig. 1 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 53, fig. 26 ♂ D.

c. *Polites vibex praeceps* (Scudder, 1872)

4th Ann. Rep. Peabody Acad. Sci. (1871): 79, no. 2.

Original Combination: *H[edone]. praeceps*

Type Locality: "Tehuantepec" [Oaxaca, Mexico]

Types: Syntype (#15313) in MCZ.

= *sulfurina* (Mabille, 1878)

Petites Nouv. Entomol. 2(197): 233-234, no. 39.

Original Combination: *P[amphila]. sulfurina*

Type Locality: "Mexicanam"; also mentioned specimens from "Cayenna" and "Venezuela"

Types: Syntypes in BMNH.

= *lumida* (Möschler, 1879)

Verh. zool.-bot. Ges. Wien 28: 217-218, no. 23.

Original Combination: *Pamphila Lumida*

Type Locality: "Colombien"

Types: Syntypes in ZMHB.

= *phormio* (Mabille, 1878)

Petites Nouv. Entomol. 2(197): 233, no. 38.

Original Combination: *Pamphila Phormio*

Type Locality: "Para, Brasiliae"

Types: Syntype(s) in BMNH.

= *golenia* (Möschler, 1879)

Verh. zool.-bot. Ges. Wien 28: 218, no. 21.

Original Combination: *Pamphila Golenia*

Type Locality: "Colombien"

Types: Syntypes in ZMHB.

= *zenckei* (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 196, no. 402; cited unpublished pl. 1437 (nachtrag).

Original Combination: [*Hesperia*] *Zenckei*

Type Locality: "Mexico"

Types: Holotype may be in ZSMC or lost.
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 152, determined this synonymy (as *vibex*) through an examination of the unpublished drawing made by Plötz.

- = *clara* (Plötz, 1883)
Stettiner Entomol. Ztg. 44(4-6): 203, no. 425; cited unpublished pl. 635.

Original Combination: [*Hesperia*] *Clara*

Type Locality: "Californien", presumably in error.

Types: Holotype may be in ZSMC or lost.
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 144, determined this synonymy (as *brettus*) through an examination of the unpublished drawing made by Plötz.

- = *stigma* (Skinner, 1896)
Can. Entomol. 28(7): 188.

Original Combination: *Pamphila stigma*

Type Locality: "southern border of New Mexico and S.-W. Texas"

Types: Syntypes (#7098) in CMNH and FMNH; figured by Skinner (1900), Entomol. News 11(4): pl. 2, figs. 15 ♂ D, 16 ♂ V, and W. Holland (1931), Butterfly Book (rev. ed.): pl. 53, fig. 28 ♂ D.

- = *hypozone* (Dyar, 1918)
Proc. U. S. Nat. Mus. 54(2239): 339-340.

Original Combination: *Lerema hypozone*

Type Locality: "Sierra de Guerrero, Mexico"

Types: Holotype (#21216) in USNM.

‡"combinata" (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 206, under no. 433.

Original

Combination: [*Hesperia*] *Golenia* = *Combinata*

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 144, determined this synonymy (as *vibex*) through an examination of an unpublished drawing (pl. 636, from "Colombia") made by Plötz. This name was listed without a description or indication; a *nomen nudum*.

Genus *Wallengrenia* Berg, 1897

An. Mus. Nac. (Buenos Aires) (2)5: 254-255. Type-species: *Hesperia premnas* Wallengren, 1860, Wien. Entomol. Montaschr. 4(2): 38, no. 20, by original designation. The arrangement here follows Burns (1985), Smithsonian Contrib. Zool. (423): 1-39.

- = *Catia* Godman, 1900
In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(156): 462, 481. Type-species: *Hesperia drury* Latreille, [1824], Ency. méth. 9(Ins.)(2): (723), 767, no. 110 (= *Papilio otho* J. E. Smith, 1797, *in*: Smith & Abbot, Ins. Georgia 1: 31-32, pl. 16; subspecies), by original designation.

241. *Wallengrenia otho* (J. E. Smith, 1797)

a. *Wallengrenia otho otho* (J. E. Smith, 1797)

In: Smith & Abbot, Ins. Georgia 1: 31-32, pl. 16, figs. ♂ D, ♂ V, ♀ D, larva, pupa.

Original Combination: *Papilio Otho*

Type Locality: "Georgia" implied from the notes for the original drawing by John Abbot.

Types: Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are presumed lost.

= *pustula* (Geyer, 1832)

In: Hübner, Zutr. Samml. exot. Schmett. 4: pl. [108], figs. 625 ♂ D, 626 ♂ V [1826]; (text): 11, no. 313 (1832, name given).

Original Combination: *Thymelicus Pustula*

Type Locality: "Georgien"; probably based on a specimen from John Abbot.

Types: Type(s) probably lost.

Hübner [1819], Verz. bekannt. Schmett. (7): 113, listed *T. pustula* without a description or indication; a *nomen nudum*.

‡"*lacordairii*" (Godman, 1900)

In: Godman & Salvin, Biol. centr.-amer. Lepid. Rhop. 2(156): 483.

Original Combination: *Catia*

pustula (= *Pamphila lacordairii* Boisd)

Godman introduced the name *lacordairii* in the synonymy of *pustula* without a description or indication; a *nomen nudum*.

b. Wallengrenia otho clavus (Erichson, [1849])

In: Schomburgk, Reisen Brit-Guiana 3: 603-604.

Original Combination: *Hesperia clavus*

Type Locality: "British Guiana" implied from the title of the work.

Types: Lectotype in ZMHB, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 68. Burns (1994), J. Lepid. Soc. 48(4): 294, determined this synonymy and suggested that this may be a species-level taxon.

= *curassavica* (Snellen, 1887)

Tijdschr. Entomol. 30: 28-30, pl. 2, figs. 3, 3a ♂ D&V.

Original Combination: *Hesperia Curassavica*

Type Locality: "Curaçao" implied from the title of the paper. [Netherlands Antilles]

Types: Syntype(s) in RMNH.

= *helva* (Möschler, 1877)

Verh. zool.-bot Ges. Wien 26: 336, pl. 4, fig. 20.

Original Combination: *Pamphila helva*

Type Locality: "aus dem Innern Suriname"

Types: Lectotype in ZMHB, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 68.

= *winslowi* (Weeks, 1906)

Psyche 13(2/3): 69-70; figured by Weeks (1911), Ill. diurn. Lepid. 2: pl. 10, fig. 1 ♂ D&V.

Original Combination: *Polites winslowi*

Type Locality: "Suapure, Venezuela"

Types: Holotype (#16724) in MCZ.

= *jobrea* (Dyar, 1918)

Proc. U. S. Nat. Mus. 54(2239): 338-339.

Original Combination: *Catia jobrea*

Type Locality: "Sierra de Guerrero, Mexico"

- Types:** Holotype (#21212) in USNM.
242. **Wallengrenia egeremet** (Scudder, 1863)
Proc. Essex Inst. 3: 174-175, no. 73.
Original Combination: *Hesperia Egeremet*
Type Locality: "Mass....Georgia...Western States...N. England"
Types: Syntype (#15827) in MCZ.
- = *ursa* (Worthington, 1880)
Can. Entomol. 12(3): 49, no. 1.
Original Combination: *Pamphila ursa*
Type Locality: "Lake Co., Ind., near Ills. Line"
Types: Location of type(s) not known (USNM?).
- = *cinna* (Plötz, 1882)
Stettiner Entomol. Ztg. 44(1-3): 58, no. 377; cited unpublished pl. 598.
Original Combination: [*Hesperia*] *Cinna*
Type Locality: "Union" [United States]
Types: Holotype may be in ZSMC or lost.

Genus *Pompeius* Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 301, 335. Type-species: *Hesperia pompeius* Latreille, [1824], Ency. méth. 9(Ins.)(2): (722), 765, no. 105, by original designation.

243. **Pompeius verna** (W. H. Edwards, 1862)
Proc. Acad. Nat. Sci. Philad. 14(1/2): 54, 57, no. 6.
Original Combination: *Pamphila verna*
Type Locality: "Illinois"; neotype from "Perryton Township, Mercer County, Illinois"
Types: Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 57, fig. 9 ♂ D&V.
- = *pottawattomie* (Worthington, 1880)
Can. Entomol. 12(3): 50, no. 2.
Original Combination: *Pamphila pottawattomie*
Type Locality: "neighborhood of the Chicago massacre, Cook Co., Ill....Lake Co., Ind."
Types: Syntype in USNM.
- = *vetulina* (Plötz, 1882)
Stettiner Entomol. Ztg. 44(1-3): 58, no. 377; cited unpublished pl. 597.
Original Combination: [*Hesperia*] *Vetulina*
Type Locality: Not stated.
Types: Holotype may be in ZSMC or lost.
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 143, determined this synonymy through an examination of the unpublished drawing made by Plötz.
- = *sigida* (Mabille, 1891)
Annls. Soc. Entomol. Belg. 35(c.r.)(18): clxxvii.
Original Combination: *Pamphila Sigida*
Type Locality: "Australie", in error.
Types: Holotype in BMNH.
- = *sequoyah* (H. Freeman, 1942)
Entomol. News 53(4): 104.
Original Combination: *Polites verna sequoyah*
Type Locality: "Hope Hill Farm, Faulkner County, Arkansas and Little Rock, Arkansas"

Types: Holotype in AMNH.

Genus *Atalopedes* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 78. Type-species: *Hesperia huron* W. H. Edwards, 1863, Proc. Entomol. Soc. Philad. 2(1): 16-17, no. 4, pl. 1, figs. 1, 2 (= *Hesperia campestris* Boisduval, 1852, Annls. Soc. Entomol. Fr. (2)10: 316; subspecies), by original designation. Burns (1989), J. Lepid. Soc. 43(1): 11-32, suggested that *Atalopedes* and *Hesperia* are closely related.

= *Pansydia* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 81. Type-species: *Hesperia mesogramma* Latreille, [1824], in: Ency. méth. 9(Ins.)(2): (722), 765, no. 106, by original designation.

244. *Atalopedes campestris* (Boisduval, 1852)

a. *Atalopedes campestris campestris* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 316, no. 79; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, fig. 2090 ♂ D&V.

Original Combination: *Hesperia campestris*

Type Locality: "dans les lieux arides"; defined as "Sacramento, Sacramento County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 22.

Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 22, figs. 147 ♂ D, 148 ♂ V.

= *tenebricosus* Austin & J. Emmel, 1998

Syst. W. N. Am. Butterflies (42): 504, figs. 15 ♂ D, 16 ♂ V (holotype); 17 ♀ D, 18 ♀ V.

Original Combination: *Atalopedes campestris tenebricosus*

Type Locality: "California: Humboldt County; Eureka"

Types: Holotype in LACM.

A. Warren (2005), Butterflies Ore.: 45, determined this synonymy.

b. *Atalopedes campestris huron* (W. H. Edwards, 1863)

Proc. Entomol. Soc. Philad. 2(1): 14, 16-17, no. 4, pl. 1, figs. 1 ♂ D&V, 2 ♀ D&V.

Original Combination: *Hesperia Huron*

Type Locality: "Illinois, Georgia, Texas, Washington, D.C."; neotype from "Evanston, Illinois" [Cook County]

Types: Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 59, fig. 10 ♂ D&V.

Layberry *et al.* (1998), Butterflies Can.: 65, did not recognize this as a subspecies-level taxon.

= *kedema* (Butler, 1870)

Trans. Entomol. Soc. Lond. (4)1870(4): 504, no. 3.

Original Combination: *Pamphila Kedema*

Type Locality: Not stated.

Types: Holotype in BMNH.

= *augustus* (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 213, no. 453; cited unpublished pl. 676.

Original Combination: [*Hesperia*] *Augustus*

Type Locality: "Brasilien"

Types: Type(s) may be in ZSMC or lost.

= *amphissa* (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 221, no. 476; cited unpublished pl. 667.

Original Combination: [*Hesperia*] *Amphissa*

Type Locality: "Venezuela"

Types: Holotype may be in ZSMC or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 145, determined this synonymy through an examination of the unpublished drawing made by Plötz.

Genus *Atrytone* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 77. Type-species: *Hesperia iowa* Scudder, 1868, Proc. Boston Soc. Nat. Hist. 11: 401 (= *Hesperia arogos* Boisduval & Le Conte, [1837], Hist. Lépid. Amér. sept. (26): pl. 76, figs. 3-5; subspecies), by original designation.

245. *Atrytone arogos* (Boisduval & Le Conte, [1837])

- a. *Atrytone arogos arogos* (Boisduval & Le Conte, [1837])
Hist. Lépid. Amér. sept. (26): pl. 76, figs. 3 ♂ D, 4 ♂ V, 5 ♀ D.

Original Combination: *Hesperia Arogos*

Type Locality: Not stated (there is no text); "l'Amérique septentrionale" implied from the title of the book.

Types: Types were the specimens upon which Émile Blanchard based his illustrations, probably from Boisduval's collection. Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 340, noted that the "type" is in the BMNH, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such Boisduval "types."

= *mutius* (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 199, no. 413; cited unpublished pl. 625.

Original Combination: [*Hesperia*] *Mutius*

Type Locality: "Georgia"

Types: Type(s) may be in ZSMC or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 144, determined this synonymy through an examination of the unpublished drawing made by Plötz.

- b. *Atrytone arogos iowa* (Scudder, 1868)

Proc. Boston Soc. Nat. Hist. 11: 401.

Original Combination: *Hesperia iowa*

Type Locality: "Iowa"; defined as "Denison and New Jefferson, Iowa" by Scudder [1870], Trans. Chicago Acad. Sci. 1(2): 330. [Denison, Crawford County; Jefferson, Greene County]

Types: Syntype (#15307) in MCZ.

Genus *Problema* Skinner & R. Williams, 1924

Trans. Am. Entomol. Soc. 50(1): 62. Type-species: *Pamphila byssus* W. H. Edwards, 1880, Can. Entomol. 12(11): 224, by original designation.

246. *Problema byssus* (W. H. Edwards, 1880)

- a. *Problema byssus byssus* (W. H. Edwards, 1880)
Can. Entomol. 12(11): 224-225.

Original Combination: *Pamphila Byssus*

Type Locality: "Indian River, Florida" [Brevard County]

Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 63, fig. 14 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 41, fig. 20 ♀ D (paralectotype), pl. 53, fig. 38 ♂ D (lectotype).

b. Problema byssus kumskaka (Scudder, 1887)

Can. Entomol. 19(3): 45-48.

Original Combination: *Atrytone Kumskaka*

Type Locality: "Iowa...Western States"; stated to be "Denison, Iowa" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 42. [Crawford County]

Types: Syntype (#10756) in MCZ; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 53, fig. 39 ♂ D, supposedly sent to W. H. Edwards by Scudder.

247. Problema bulenta (Boisduval & Le Conte, [1837])

Hist. Lépid. Amér. sept. (26): pl. 67, figs. [1] ♂ D, [2] ♂ V, [3] ♀ D, [4] larva, [5] pupa.

Original Combination: *Hesperia Bulenta*

Type Locality: Not stated (there is no text); "Georgia" implied from other drawings of the species by John Abbot.

Types: Types were the specimens that John Abbot painted and are probably lost.

F. Jones (1926), Entomol. News 37(7): 193-197, pl. 9, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V, 4 ♀ V, fig. of ♂ genitalia, detailed the rediscovery of this species, and provided the first written description of the taxon.

Genus *Poanes* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 76. Type-species: *Hesperia massasoit* Scudder, 1863, Proc. Essex Inst. 3: 171, no. 65, by original designation. Burns (1992), J. Lepid. Soc. 46(1): 1-23, discussed the probability that this genus is polyphyletic, and created species groups. The first group includes *hobomok*, *zabulon* and *taxiles*, while the second group includes *massasoit*, *viator*, *aaroni* and *andyehl* (*massasoit* may belong in its own group). Burns also transferred *melane* to *Poanes* from *Paratrytone*, and noted that at least some *Poanes* species may belong in *Ochlodes*.

= *Phycanassa* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 77. Type-species: *Hesperia viator* W. H. Edwards, 1865, Proc. Entomol. Soc. Philad. 4(1): 202-203, pl. 1, fig. 5, by original designation.

= ‡*Paratrytone* Dyar, 1905

J. N. Y. Entomol. Soc. 13(3): 136. Type-species: *Pamphila howardi* Skinner, 1896, Can. Entomol. 28(7): 187 (= *Pamphila aaroni* Skinner, 1890, Entomol. News 1(1): 6; subspecies), by original designation. Preoccupied by *Paratrytone* Godman, 1900, in: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 487.

248. Poanes hobomok (T. Harris, 1862)

a. Poanes hobomok hobomok (T. Harris, 1862)

Ins. injur. Veget. (3rd ed.): 313-314, fig. 137 ♂ D&V.

Original Combination: *Hesperia Hobomok*

Type Locality: "Massachusetts" implied from the title of the first edition of the book; stated to be "Massachusetts" by Morris (1862), Smithsonian Misc. Coll. [4]: 110, no. 15.

Types: Syntypes (#26348) in MCZ.

= *pocahontas* (Scudder, 1863)

Proc. Essex Inst. 3: 171-172, no. 67; figured by Scudder (1889), Butterflies E. U. S. & Can. 3(12): pl. 10, fig. 9 ♀ D&V.

Original Combination: *Hesperia Pocahontas*

Type Locality: "Mass. and Conn." [Massachusetts and Connecticut]

Types: Syntypes (#15825) in MCZ and CMNH.

= *quadaquina* (Scudder, 1868)

Proc. Boston Soc. Nat. Hist. 11: 381, no. 76.

Original Combination: *Hesperia Quadaquina*

Type Locality: "West Roxbury, Mass....Quincy, Mass....Guilford, Conn....New Haven, Conn."

Types: Syntype (#15824) in MCZ; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 53, fig. 44 ♀ D.

= *ridingsii* F. Chermock & R. Chermock, 1940

Can. Entomol. 72(4): 83.

Original Combination: *Poanes*

hobomok form *ridingsii*

Type Locality: "Riding Mtns., Manitoba"

Types: Holotype in CNC.

This name is considered available from its original description, since Klots (1951), Field Guide Butterflies N. Am.: 250, treated it as a subspecies-level taxon (Code Article 45.6.4.1).

= ‡"alfaratta" W. Holland, 1930

Ann. Carnegie Mus. 19(3): 159; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 53, fig. 45 ♀ D.

Original Combination: *Poanes hobomok* var.

♀ *alfaratta*

Type Locality: "Kansas"

Types: "Holotype" in CMNH.

= ‡"friedlei" F. Watson, 1920

J. N. Y. Entomol. Soc. 28(3-4): 232.

Original Combination: *Poanes hobomok* f.

♀ *pocahontas* ab. *friedlei*

Type Locality: "Van Cortland Park, New York City, N. Y." [Bronx County, New York]

Types: "Holotype" in AMNH.

= ‡"pallida" F. Watson, 1921

J. N. Y. Entomol. Soc. 29(3-4): 172-173.

Original Combination: *Poanes*

hobomok ab. *pallida*

Type Locality: "near Dunwoodie, Westchester County, New York"

Types: "Holotype" in AMNH.

b. *Poanes hobomok monofacies* Gatrell, 2002

Tax. Rep. Int. Lepid. Surv. 3(8): 6-7, figs. 17 ♂ D, 19 ♂ V (holotype); 18 ♀ D, 20 ♀ V, 21 ♂ D, 23 ♂ V, 22 ♀ D, 24 ♀ V, 25 ♂ D, 27 ♂ V, 26 ♀ D, 28 ♀ V.

Original Combination: *Poanes hobomok monofacies*

Type Locality: "North Carolina: Macon County, near summit of Chestnut Mountain, 3,500', FS Rd. 4563"

Types: Holotype in LACM.

c. *Poanes hobomok wetona* Scott, 1981

Papilio (n.s.) 1: 9.

Original Combination: *Poanes hobomok wetona*

- Type Locality:** "Sand Gulch S. Greenwood, 7200', Custer Co., Colo." [Colorado]
Types: Holotype in LACM; figured by Gatrell (2002), Tax. Rep. Int. Lepid. Surv. 3(8): figs. 1 ♂ D, 2 ♂ V.
249. **Poanes zabulon** (Boisduval & Le Conte, [1837])
 Hist. Lépid. Amér. sept. (26): pl. 76, figs. 6 ♂ D, 7 ♂ V.
Original Combination: *Hesperia Zabulon*
Type Locality: Not stated (there is no text); "l'Amérique septentrionale" implied from the title of the book.
Types: Types were the specimens upon which Émile Blanchard based his illustrations, probably from Boisduval's collection. Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 348, noted that the "type" is in the BMNH, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such Boisduval "types."
 = *erratica* (Plötz, 1883)
 Stettiner Entomol. Ztg. 44(4-6): 210, no. 446; cited unpublished pl. 656.
Original Combination: [*Hesperia*] *Erratica*
Type Locality: "Guatemala"
Types: Type(s) in ZMHB.
 Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 145, determined this synonymy through an examination of the unpublished drawing made by Plötz.
 ‡"ogeechensis" (Scudder, 1889)
 Butterflies E. U. S. & Can. 2(11): 1617.
Original Combination: [*Atrytone zabulon*] = *Papilio ogeecheensis* Abb.
 This name was mentioned in the synonymy of *Atrytone zabulon* without a description or indication; a *nomen nudum*.
250. **Poanes taxiles** (W. H. Edwards, 1881)
 Trans. Am. Entomol. Soc. 9(1): 5-6.
Original Combination: *Pamphila Taxiles*
Type Locality: "Arizona...South Colorado...Nevada...Oak Creek Canon, South Colorado"; defined as "Oak Creek Canyon, Custer County [sic!], Colorado" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 73-74. [Fremont County]
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 74, fig. 22 ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 47, fig. 31 ♂ D.
 = *psaumis* (Godman, 1900)
 In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 489, no. 1; 3: pl. 94, figs. 2 ♀ D, 3 ♀ V.
Original Combination: *Phycanassa psaumis*
Type Locality: "Mexico, Bolaños in Jalisco"
Types: Syntype in BMNH.
251. **Poanes massasoit** (Scudder, 1863)
 a. **Poanes massasoit massasoit** (Scudder, 1863)
 Proc. Essex Inst. 3: 171, no. 65.
Original Combination: *Hesperia Massasoit*
Type Locality: "Carver, Mass." [Plymouth County]
Types: Syntype (#15305) in MCZ.
 = *suffusa* (Laurent, [1891])
 Entomol. News 3(1): 15-16.

Original Combination: *Pamphila massasoit* var. *suffusa*

Type Locality: "around Philadelphia...in low meadow- or swamp-lands" [Philadelphia County, Pennsylvania]

Types: Syntype (#7172) in CMNH.

= *hughi* A. Clark, 1931

Ann. Carnegie Mus. 21(1): 7-9, fig. 1 ♂ D&V (holotype), ♀ D&V.

Original Combination: *Poanes massasoit hughi*

Type Locality: "Beltsville, Maryland; bog between the railway station and the experiment farm of the Bureau of Animal Industry, U. S. Department of Agriculture" [Prince Georges County]

Types: Holotype in USNM; figured by A. Clark and L. Clark (1951), Smithsonian Misc. Coll. 116(7): frtspc. fig. 11 ♂ V, pl. 26, fig. c ♂ D.

b. *Poanes massasoit chermocki* W. Andersen & Simmons, 1976

J. Lepid. Soc. 30(1): 19-20, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Poanes massasoit chermocki*

Type Locality: "New Bridge, Dorchester County, Maryland"

Types: Holotype in USNM.

252. *Poanes viator* (W. H. Edwards, 1865)

a. *Poanes viator viator* (W. H. Edwards, 1865)

Proc. Entomol. Soc. Philad. 4(1): 201, 202-203, no. 5, pl. 1, fig. 5 ♂ D&V.

Original Combination: *Hesperia viator*

Type Locality: "Northern Illinois...New Orleans"; neotype from "Goose Lake Prairie, Grundy Co., Ill."

Types: Neotype in INHS, designated by Shapiro (1971), J. Res. Lepid. 9(2): 110, figs. 1a ♂ D, 1b ♂ V; figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): fig. 21 ♂ D&V.

b. *Poanes viator zizaniae* Shapiro, 1971

J. Res. Lepid. 9(2): 110, 113, figs. 2 a ♂ D, b ♂ D, c ♂ D, d ♀ D, e ♂ D (holotype), f ♀ D, g ♂ V, h ♂ V, i ♂ V, j ♀ V.

Original Combination: *Poanes viator zizaniae*

Type Locality: "Tinicum Wildlife Preserve, Philadelphia County, Pennsylvania"

Types: Holotype in CUIC.

253. *Poanes aaroni* (Skinner, 1890)

a. *Poanes aaroni aaroni* (Skinner, 1890)

Entomol. News 1(1): 6-7; figured by [Skinner] (1892), Entomol. News 3(3): 49, pl. 2, figs. 7 ♂ D, 8 ♂ V, and (1897), Entomol. News 8(6): pl. 7, 4th row ♂ D&V.

Original Combination: *Pamphila aaroni*

Type Locality: "Cape May, N. J." implied from the title of the paper. [Cape May County, New Jersey]

Types: Lectotype (#7093) in CMNH, designated by Gatrell (2000), Tax. Rep. Int. Lepid. Surv. 2(2): 6.

b. *Poanes aaroni minimus* Gatrell, 1999

Tax. Rep. Int. Lepid. Surv. 1(10): 9, figs. 13 ♂ D, 18 ♂ V (holotype); 14 ♀ D, 19 ♀ V.

Original Combination: *Poanes aaroni minimus*

- Type Locality:** "South Carolina: Orangeburg County, Bull Swamp"
Types: Holotype in CMNH.
- c. **Poanes aaroni howardi** (Skinner, 1896)
 Can. Entomol. 28(7): 187.
Original Combination: *Pamphila Howardi*
Type Locality: "Florida...Georgiana, on the Indian River"
 [Brevard County]
Types: Lectotype (#7092) in CMNH, designated by Gatrell (2000), Tax. Rep. Int. Lepid. Surv. 2(2): 6; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 46, figs. 38 ♂ D (lectotype), pl. 54, fig. 1 ♀ D (paralectotype).
- d. **Poanes aaroni bordeloni** Gatrell, 2000
 Tax. Rep. Int. Lepid. Surv. 2(2): 8-9, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V, 12 ♀ D&V, 13 ♂ DFW, 16 ♀ DFW.
Original Combination: *Poanes aaroni bordeloni*
Type Locality: "Texas: Jefferson County, Sabine Pass"
Types: Holotype at TAMU.
254. **Poanes yehl** (Skinner, 1893)
 Entomol. News 4(6): 212; figured by W. Holland (1898), Butterfly Book: pl. 46, fig. 40 ♂ D.
Original Combination: *Pamphila yehl*
Type Locality: "Florida"
Types: Holotype in FMNH.
 ‡"baiva" (Butler, 1870)
 Entomol. Mon. Mag. 7(76): 93.
Original Combination: [*Pamphila*] *Baiva*
 Butler cited this as a Boisduval name without a description or indication; a *nomen nudum*.
255. **Poanes melane** (W. H. Edwards, 1869)
 a. **Poanes melane melane** (W. H. Edwards, 1869)
 Trans. Am. Entomol. Soc. 2(3): 312.
Original Combination: *Hesperia Melane*
Type Locality: "California"; defined as "San Francisco Bay area, California" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 75.
Types: Lectotype in FMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 75, fig. 23 ♂ D&V.
 b. **Poanes melane vitellina** (Herrich-Schäffer, 1869)
 Corresp.-Bl. zool.-min Ver. Regensb. 23(12): 199, no. 25.
Original Combination: [*Cobalus*] *vitellina*
Type Locality: Not stated.
Types: Type(s) may be in NMW.
 Burns (1992), J. Lepid. Soc. 46(1): 14, suggested that this may be a species-level taxon.
 ‡"marmarosa" (Godman, 1900)
In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 495.
Original Combination: *Pamphila marmarosa*
 Godman cited this as a Staudinger name without a description or indication; a *nomen nudum*.

Genus **Stinga** Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 300, 317. Type-species: *Pamphila morrisoni* W. H. Edwards, 1878, Field & Forest 3(7/8): 116, by original designation. A. Warren & Austin (2009), Zootaxa 2197: 1–19, discuss the variation, distribution, and systematics of this genus.

- 256. *Stinga morrisoni* (W. H. Edwards, 1878)**
 Field & Forest 3(7/8): 116–117.
Original Combination: *Pamphila Morrisoni*
Type Locality: “Southern Colorado”; defined as “Hardscrabble Canyon, Custer County, Colorado” by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 279, 280.
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 280, fig. 14 ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 46, fig. 26 ♂ D (lectotype), 27 ♀ D (paralectotype).

Genus *Ochlodes* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 78. Type-species: *Hesperia nemorum* Boisduval, 1852, Annls. Soc. Entomol. Fr. (2)10: 314 (= *Hesperia agricola* Boisduval, 1852, Annls. Soc. Entomol. Fr. (2)10: 314; subspecies), by original designation. Chiba and Tsukiyama (1996), Butterflies 14: 3–16, revised this genus. The relative precedence of the various taxa named by Boisduval has not been unequivocally stated anywhere. This arrangement generally follows L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 42, Ferris (1989), Mem. Lepid. Soc. (3): 72, and Mielke (2005), Cat. Amer. Hesp. 5: 1112–1116.

- 257. *Ochlodes sylvanoides* (Boisduval, 1852)**
a. *Ochlodes sylvanoides sylvanoides* (Boisduval, 1852)
 Annls. Soc. Entomol. Fr. (2)10(2): 313–314, no. 71; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, figs. 2083 ♂ D&V, 2084 ♂ D&V, 2085 ♀ D&V [this species?].
Original Combination: *Hesperia sylvanoides*
Type Locality: “Californie” implied from the title of the paper; defined as “Tuolumne gold fields, Tuolumne Co. Calif.” by Scott (1981), Papilio (n.s.) 1: 10; corrected to “Queen Lily Campground, near Belden, North Fork Feather River Canyon, Plumas County, California” by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 20, based on the lectotype and Lorquin’s itinerary.
Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 21, figs. 135 ♂ D, 136 ♂ V.
 = *pratincola* (Boisduval, 1852)
 Annls. Soc. Entomol. Fr. (2)10(2): 315, no. 77; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, figs. 2088 ♂ D&V.
Original Combination: *Hesperia pratincola*
Type Locality: “Californie” implied from the title of the paper; defined as “Broderick, Yolo Co., Calif.” by Scott (1981), Papilio (n.s.) 1: 11; corrected to “Queen Lily Campground, near Belden, North Fork Feather River Canyon, Plumas County, California” by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 21.
Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 22, figs. 144 ♀ D, 145 ♀ V.

Tilden and Smith (1986), Field Guide W. Butterflies: 227, suggested that *pratincola* is a species-level taxon, occurring in south-central California, flying in June (earlier than *sylvanoides*). The restriction of the type locality as given above removes the name *pratincola* from that consideration. If such a taxon is "rediscovered" in the future, it would require a new name.

= *francisca* (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 220, no. 472; cited unpublished pl. 666.

Original Combination: [*Hesperia*] *Francisca*

Type Locality: "Californien, Mexico"

Types: Syntypes in ZHMB.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 145, determined this synonymy through an examination of the unpublished drawing made by Plötz.

b. *Ochlodes sylvanoides santacruza* Scott, 1981

Papilio (n.s.) 1: 11.

Original Combination: *Ochlodes sylvanoides santacruza*

Type Locality: "Santa Cruz Is. Calif...Central Valley" [Santa Barbara County, California]

Types: Holotype in EMEC.

Species-genus gender conformation is *santacruzus*.

c. *Ochlodes sylvanoides catalina* J. Emmel & T. Emmel, 1998

Syst. W. N. Am. Butterflies (23): 313-314, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Ochlodes sylvanoides catalina*

Type Locality: "California: Los Angeles County; Santa Catalina Island; Toyon Bay"

Types: Holotype in LACM.

d. *Ochlodes sylvanoides orecoasta* Scott, 1981

Papilio (n.s.) 1: 11.

Original Combination: *Ochlodes sylvanoides orecoasta*

Type Locality: "Cullaby Lake, Clatsop Co., Ore." [Oregon]

Types: Holotype in LACM.

Species-genus gender conformation is *orecoastus*.

e. *Ochlodes sylvanoides bonnevilla* Scott, 1981

Papilio (n.s.) 1: 10.

Original Combination: *Ochlodes sylvanoides bonnevilla*

Type Locality: "Thomas Can., Ruby Mtns., Elko Co., Nev." [Nevada]

Types: Holotype in LACM.

Species-genus gender conformation is *bonnevillus*.

f. *Ochlodes sylvanoides omnigena* Austin, 1998

Syst. W. N. Am. Butterflies (43): 526, figs. 17 ♂ D, 18 ♂ D (holotype); 19 ♀ D, 20 ♀ V.

Original Combination: *Ochlodes sylvanoides omnigena*

Type Locality: "Nevada: Lander County; Toiyabe Mountains, Kingston Canyon, 2285 m, T16N R43E, S27, 28 on USGS Millett Ranch, Nev. 15' quadrangle"

Types: Holotype in MGCL.

g. *Ochlodes sylvanoides napa* (W. H. Edwards, 1865)

Proc. Entomol. Soc. Philad. 4(1): 201, 202, pl. 1, figs. 3 ♂ D&V, 4 ♀ D&V.

Original Combination: *Hesperia Napa*

Type Locality: "Empire City, Colorado Territory"; defined as "Empire in Clear Creek County, Colorado" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 71.

Types: Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 71, fig. 20 ♂ D&V.

The neotype is the same specimen designated as lectotype by Tilden (1961), Entomol. News 72(2): 39; this specimen was not in Edwards' original type-series, and could not be a candidate for lectotype. No syntypes were found, so Brown and Miller decided that the specimen should be the neotype. Weidemeyer (1864), Proc. Entomol. Soc. Philad. 2(4): 541, listed "[*Hesperia*]napa" without a description or indication; a *nomen nudum*.

= *amanda* (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 197, no. 404; cited unpublished pl. 617.

Original Combination: [*Hesperia*] *Amanda*

Type Locality: Not stated.

Types: Holotype may be in ZSMC or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 144, suggested that this is "a var. of the N.-

American *Erynnis ottoe*, Edw., ♂" through an examination of the unpublished drawing made by Plötz. This name should probably be considered a *nomen dubium*.

258. **Ochlodes agricola** (Boisduval, 1852)

a. **Ochlodes agricola agricola** (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 314-315, no. 76; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, fig. 2087 ♂ D&V.

Original Combination: *Hesperia agricola*

Type Locality: "Californie" implied from the title of the paper; defined as "slope between Yellow Bluff and Cavallo Point, 2 miles SSE of Sausalito, Marin County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 21.

Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2) 21, figs. 141 ♂ D, 142 ♂ V.

= *yreka* (W. H. Edwards, 1866)

Proc. Entomol. Soc. Philad. 6(2): 200, 207-208, no. 9.

Original Combination: *Hesperia Yreka*

Type Locality: "San Francisco" [San Francisco County, California]

Types: Holotype in CMNH, figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 66, fig. 17 ♂ D&V. This is the same specimen designated as lectotype by Tilden (1961), Entomol. News 72(2): 40.

Weidemeyer (1864), Proc. Entomol. Soc. Philad. 2(4): 541, listed "yrika" without a description or indication; it is both a misspelling and a *nomen nudum*.

- b. **Ochlodes agricola nemorum** (Boisduval, 1852)
Annls. Soc. Entomol. Fr. (2)10(2): 314, no. 75; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, fig. 2086 ♂ D&V.
Original Combination: *Hesperia nemorum*
Type Locality: "le bord des bois"; defined as "Broderick, Yolo Co., Calif." by Scott (1981), Papilio (n.s.) 1: 11; corrected to "Queen Lily Campground, near Belden, North Fork Feather River Canyon, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 21.
Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 21, figs. 138 ♂ D, 139 ♂ V.
= *miro* (W. H. Edwards, 1883)
Can. Entomol. 15(2): 34-35.
Original Combination: *Pamphila Miro*
Type Locality: "Mt. Hood, Oregon"; considered more likely from "the prairies of western Washington" and suggested to be "Tenino in Thurston County, Washington" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 69; this is also impossible. See discussion below.
Types: Holotype in CMNH, figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): fig. 18 ♂ D&V, and W. Holland (1931), Butterfly Book (rev. ed.): pl. 52, fig. 44 ♂ D. This is the same specimen designated lectotype by Tilden (1961), Entomol. News 72(2): 40.
The originally stated type locality and the subsequent "restriction" are both incorrect. *Ochlodes agricola* has never been documented in Washington, and the only records from Oregon are in the southwestern part of the state (A. Warren (2005), Butterflies Ore.: 55). Many localities provided to Edwards by Morrison were erroneous; some of these were later corrected by Morrison.
- c. **Ochlodes agricola verus** (W. H. Edwards, 1881)
Trans. Am. Entomol. Soc. 9(1): 4-5.
Original Combination: *Pamphila Verus*
Type Locality: "Havilah, California" [Kern County]
Types: Lectotype in CMNH, designated by Tilden (1961), Entomol. News 72(2): 40; figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): fig. 19 ♂ D&V.
259. **Ochlodes yuma** (W. H. Edwards, 1873)
- a. **Ochlodes yuma sacramentorum** Austin, 1998
Syst. W. N. Am. Butterflies (43): 528, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V.
Original Combination: *Ochlodes yuma sacramentorum*
Type Locality: "California: Sacramento County; Sacramento River Valley, Sherman Island, 3 m"
Types: Holotype in MGCL.
- b. **Ochlodes yuma yuma** (W. H. Edwards, 1873)
Trans. Am. Entomol. Soc. 4(4): 346.
Original Combination: *Hesperia Yuma*
Type Locality: "Arizona"; defined as "vicinity of Owens Lake, Inyo County, California" by F. Brown (1958), Lepid.

News 11(4/5): 154; neotype from "Darwin Falls, Inyo Co., California."

Types: Neotype in CMNH, designated by Tilden (1961), Entomol. News 72(2): 42-43; figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): fig. 15 ♂ D&V.

c. *Ochlodes yuma lutea* Austin, 1998

Syst. W. N. Am. Butterflies (43): 527, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V.

Original Combination: *Ochlodes yuma lutea*

Type Locality: "Nevada: Lander County; Toiyabe Mountains, Bowman Creek, 1859 m, T15N R43E S13 near Nye County Line on USGS Millett Ranch, Nev. 15' quadrangle"

Types: Holotype in MGCL.

d. *Ochlodes yuma scudderi* (Skinner, 1899)

Entomol. News 10(5): 111-112; figured by Skinner (1900), Entomol. News 11(4): pl. 2, figs. 9 ♂ D, 10 ♂ V.

Original Combination: *Pamphila scudderi*

Type Locality: "White River, Colorado" [Rio Blanco County]

Types: Syntype (#7097, labeled as "holotype") in CMNH; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 53, fig. 2 ♂ D.

e. *Ochlodes yuma anasazi* S. Cary & Stanford, 1995

Bull. Allyn Mus. (140): 2-3, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Ochlodes yuma anasazi*

Type Locality: "New Mexico: Taos Co., Rio Grande Gorge near Questa"

Types: Holotype in MGCL.

Genus *Paratrytone* Godman, 1900

In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 487. Type-species: *Paratrytone rhexenor* Godman, 1900, *in:* Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 488, no. 1; 3: pl. 93, figs. 41, 42, 43, by original designation. Burns (1992), J. Lepid. Soc. 46(1): 1-23, discussed the circumscription of this genus; he removed *melane* (to *Poanes*) and added *snowi* (from *Ochlodes*).

260. *Paratrytone snowi* (W. H. Edwards, 1877)

Can. Entomol. 9(2): 29-30.

Original Combination: *Hesperia Snowi*

Type Locality: "Colorado, at Ute Pass" [Teller County]

Types: Lectotype in SEMC, designated by Tilden (1961), Entomol. News 72(2): 41; figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 67, fig. 16 ♂ D&V.

Genus *Anatrytone* Dyar, 1905

J. N. Y. Entomol. Soc. 13(3): 140. Type-species: *Hesperia delaware* W. H. Edwards, 1863, Proc. Entomol. Soc. Philad. 2(1): 19, no. 8, pl. 5, fig. 2 (= *Hesperia logan* W. H. Edwards, 1863, Proc. Entomol. Soc. Philad. 2(1): 18-19, no. 7, pl. 1, fig. 5; synonym), by original designation. This genus was resurrected by Scott (1992, Papilio [N.S.]#6): 148-150, and this was confirmed by Burns (1994), J. Lepid. Soc. 48(4): 273-337.

= *Mellana* Hayward, 1948

Acta zool. Lilloana 5: 98. Type-species: *Atrytone mella* Godman, 1900, *in:* Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 492-493, no. 5; 3: pl. 94, figs. 14 ♂ D, 15 ♂ V, 16 ♂

genitalia, by original designation. Actually, Hayward misidentified *Pamphila perfida* Möschler, 1879, Verh. zool.-bot Ges. Wien 28: 221, no. 28, as *mella*, as determined by Burns (1994), J. Lepid. Soc. 48(4): 293-294. This is a case of a misidentified type species. The type-species is *Atrytone mella* Godman, 1900, as designated by Pelham (2008), J. Res. Lepid. 40: 91 (under Code Article 70.3), misidentified in the original designation by Hayward (1948).

logan group Burns, 1994
J. Lepid. Soc. 48(4): 280-285.

- 261. *Anatrytone logan*** (W. H. Edwards, 1863)
- a. *Anatrytone logan logan*** (W. H. Edwards, 1863)
Proc. Entomol. Soc. Philad. 2(1): 14, 18-19, no. 7, pl. 1, fig. 5 ♀ D&V.
Original Combination: *Hesperia Logan*
Type Locality: "Lansing, Michigan...Philadelphia"; neotype from "Kanawha River, Kanawha County, West Virginia"
Types: Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 61, fig. 11 ♀ D&V; figured by W. Holland (1898), Butterfly Book: pl. 46, fig. 25 ♀ D.
= *delaware* (W. H. Edwards, 1863)
Proc. Entomol. Soc. Philad. 2(1): 14, 19, no. 8, pl. 5, fig. 2 ♂ D&V.
Original Combination: *Hesperia Delaware*
Type Locality: "Philadelphia"; neotype from "Kanawha River, Kanawha County, West Virginia"
Types: Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 61, fig. 12 ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 46, fig. 24 ♂ D.
Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 77, no. 2, made the first reviser choice of *logan* over *delaware*.
- b. *Anatrytone logan lagus*** (W. H. Edwards, 1881)
Trans. Am. Entomol. Soc. 9(1): 5.
Original Combination: *Pamphila Lagus*
Type Locality: "western Texas...southern Colorado...Nevada...Oak Creek Canon"; defined as "Oak Creek Canon, Custer County [sic!], Colorado" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 61. [Fremont County]
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 62, fig. 13 ♂ D&V.
- 262. *Anatrytone mazai*** (H. Freeman, 1969)
J. Lepid. Soc. 23 (suppl. 2): 39, pl. 13, figs. 1 ♂ D, 2 ♂ V (holotype); pl. 15, fig. 8 ♂ genitalia.
Original Combination: *Atrytone mazai*
Type Locality: "Mexcala, Guerrero, Mexico"
Types: Holotype in AMNH.

Genus *Quasimellana* Burns, 1994

J. Lepid. Soc. 48(4): 299-302. Type-species: *Atrytone mexicana* E. Bell, 1942, An. Esc. Nac. Cienc. Biol. Méx. 2(4): 461-462, no. 11, fig. 5, by original designation.

eulogius group Burns, 1994
J. Lepid. Soc. 48(4): 302-303.

- 263. Quasimellana eulogius** (Plötz, 1882)
Stettiner Entomol. Ztg. 44(1-3): 64, no. 393; cited unpublished pl. 608.
Original Combination: [*Hesperia*] *Eulogius*
Type Locality: "Mexico"
Types: Type(s) in ZMHB.
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 144, determined this synonymy through an examination of the unpublished drawing made by Plötz.
= *mellona* (Godman, 1900)
In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 493, no. 6; 3: pl. 94, figs. 17 ♂ D, 18 ♂ V, 19 ♂ genitalia.
Original Combination: *Atrytone mellona*
Type Locality: "Mexico, Presidio de Mazatlan...Soledad, Tierra Colorada, Dos Arroyos, Rio Papagaio, and Acaguizotla [*sic!*; Acahuizotla], all in Guerrero...Atoyac...Orizaba...Valladolid in Yucatan...Guatemala, Pacific coast, Polochic and Chisoy Valleys...San Gerónimo...Panama, Chiriqui...Guiana"; defined as "Mexico" by Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 356.
Types: Syntypes (one labeled as "holotype") in BMNH.
= *heberia* (Dyar, 1914)
Insecutor Inscit. menstr. 2(1): 5.
Original Combination: *Atrytone heberia*
Type Locality: "Non Pareil Plantation, British Guiana" [Georgetown, Guyana]
Types: Lectotype (#18116) in USNM, designated by Burns (1994), J. Lepid. Soc. 48(4): 304.
= *oaxaca* (H. Freeman, 1979)
Bull. Allyn Mus. (52): 10-11, figs. 20 ♂ D, 21 ♂ V (holotype), 29 ♂ genitalia.
Original Combination: *Mellana oxaca*
Type Locality: "Candelaria Loxicha, Oaxaca, Mexico"
Types: Holotype in MGCL.

Genus *Notamblyscirtes* Scott, 2006

Papilio (n.s.) 12: 70. Type-species: *Amblyscirtes simius* W. H. Edwards, 1881, Trans. Am. Entomol. Soc. 9(1): 6-7, by original designation. Burns (1990), J. Lepid. Soc. 44(1): 18-21, removed *simius* from *Amblyscirtes*. Scott (1992), Papilio (n.s.) 6: 160-161, listed *simius* as "Not-'Amblyscirtes'", but it was clear from the context and diagnosis that he did not propose a new name; that shortcoming was rectified as above.

- 264. Notamblyscirtes simius** (W. H. Edwards, 1881)
Trans. Am. Entomol. Soc. 9(1): 6-7.
Original Combination: *Amblyscirtes Simius*
Type Locality: "Oak Creek Canyon, Colorado...Pueblo, Colorado"; defined as "Oak Creek Canyon, Custer County [*sic!*], Colorado" by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 54. [Fremont County]
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 54, fig. 19 ♂

D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 47, fig. 8 ♂ D.

‡"nigra" Scott, 1981

Papilio (n.s.) 1: 10.

Original Combination: *Amblyscirtes*

simius form *nigra*

Type Locality: "southern Colorado...Arizona"

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

‡"rufa" Scott, 1981

Papilio (n.s.) 1: 10.

Original Combination: *Amblyscirtes*

simius form *rufa*

Type Locality: "southern Colorado...Arizona"

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

Genus *Euphyes* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 80. Type-species: *Hesperia metacomet* T. Harris, 1862, Ins. injur. Veget. (3rd ed.): 317 (= *Hesperia vestris* Boisduval, 1852, Annls. Soc. Entomol. Fr. (2)10: 317; subspecies), by original designation. Shuey (1989), J. Res. Lepid. 27(3/4): 160-172, discussed relationships between the various species and groups in this genus.

dion group Shuey, 1989
J. Res. Lepid. 27(3/4): 160.

265. *Euphyes pilatka* (W. H. Edwards, 1867)

a. *Euphyes pilatka pilatka* (W. H. Edwards, 1867)

Trans. Am. Entomol. Soc. 1(3): 286, 287, no. 3.

Original Combination: *Hesperia Pilatka*

Type Locality: "St. Augustine, Florida" [St. Johns County]

Types: Holotype in CMNH; figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): fig. 29 ♂ D&V.

The city of Palatka, Florida was spelled "Pilatka" until 1853. Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 80, spelled this name "*palatka*", both in the text and in the reference to Edwards' original description, representing an unjustified emendation.

= *floridensis* (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 196, no. 401; cited unpublished pl. 616.

Original Combination: [*Hesperia*] *Floridensis*

Type Locality: "Florida"

Types: Holotype may be in ZSMC or lost. Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 144, determined this synonymy through an examination of the unpublished drawing made by Plötz.

b. *Euphyes pilatka klotsi* L. Miller, Harvey & J. Miller, 1985

Florida Entomol. 68(2): 325-327, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 11 ♂ genitalia, 12-15 ♂ valvae, 19 ♀ genitalia.

Original Combination: *Euphyes pilatka klotsi*

Type Locality: "Florida: Monroe Co., Sugarloaf Key, T66S, R27E, Sec. 23"

Types: Holotype in MGCL.

266. **Euphyes conspicua** (W. H. Edwards, 1863)
 a. **Euphyes conspicua orono** (Scudder, 1872)
 4th Ann. Rep. Peabody Acad. Sci. (1871): 79, no. 4.
Original Combination: *H[edone]. Orono*
Type Locality: “northern states (probably)”; “Maine” implied from the name of Chief Orono of the Penobscot Nation.
Types: Holotype (#16581) in MCZ.
 Elevated to the subspecies-level by L. Miller *et al.* (1985), Florida Entomol. 68(2): 333-334.
 b. **Euphyes conspicua conspicua** (W. H. Edwards, 1863)
 Proc. Entomol. Soc. Philad. 2(1): 14, 17, no. 5; (2): pl. 5, fig. 5 ♀ D&V.
Original Combination: *Hesperia Conspicua*
Type Locality: “Lansing, Michigan”; neotype from “Dansville State Game Area, Ingham County, Michigan”
Types: Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 79, fig. 26 ♀ D&V.
 Species-genus gender conformation is *conspicuus*.
 = *pontiac* (W. H. Edwards, 1863)
 Proc. Entomol. Soc. Philad. 2(1): 14, 17-18, no. 6: (4): pl. 11, fig. 5 ♂ D.
Original Combination: *Hesperia Pontiac*
Type Locality: “Lansing, Michigan”; neotype from “Dansville State Game Area, Ingham County, Michigan”
Types: Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 81, fig. 27 ♂ D&V.
 c. **Euphyes conspicua buchholzi** (P. Ehrlich & Gillham, 1951)
 Entomol. News 62(6): 188-189.
Original Combination: *Atrytone conspicua buchholzi*
Type Locality: “Valley, Nebraska” [Douglas County]
Types: Holotype in AMNH.
267. **Euphyes berryi** (E. Bell, 1941)
 Entomol. News 52(6): 167.
Original Combination: *Atrytone berryi*
Type Locality: “Monticello, Florida” [Jefferson County]
Types: Holotype in AMNH.
268. **Euphyes dion** (W. H. Edwards, 1879)
 Can. Entomol. 11(12): 238-239.
Original Combination: *P[amphila]. Dion*
Type Locality: “Nebraska...southern shore of Lake Michigan...Indiana...Hamilton, Ont.”; defined as “Whiting, Lake County, Indiana” by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 81.
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 82, fig. 28 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 53, fig. 36 ♂ D (lectotype), 37 ♀ V (paralectotype).
 = *alabamae* (Lindsey, 1923)
 Entomol. News 34(7): 210.
Original Combination: *Atrytone (Euphyes) alabamae*
Type Locality: “Mobile County, Alabama”
Types: Holotype in USNM.

Shuey (1989), J. Res. Lepid. 27(3/4): 163-165, determined this synonymy.

= *macguirei* H. Freeman, 1975

J. Lepid. Soc. 29(4): 227-229, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5 ♂ genitalia.

Original Combination: *Euphyes macguirei*

Type Locality: "Benbrook Res., Tarrant Co., Texas"

Types: Holotype in AMNH.

Shuey (1989), J. Res. Lepid. 27(3/4): 161-163, determined this synonymy.

269. Euphyes bayensis Shuey, 1989

J. Res. Lepid. 27(3/4): 165-166, figs. 8, 1st column top ♂ D (holotype), 2nd ♂ D, 3rd ♂ D, 4th ♀ D, bottom ♀ D, second column top ♂ D, 2nd ♂ D, 3rd ♂ D, 4th ♀ D, bottom ♀ D, 9 1st column top ♂ V (holotype), 2nd ♂ V, 3rd ♂ V, 4th ♀ V, bottom ♀ V, second column top ♂ V, 2nd ♂ V, 3rd ♂ V, 4th ♀ V, bottom ♀ V, figs. 10-21 ♂ genitalia, figs. 34-45 ♀ genitalia.

Original Combination: *Euphyes bayensis*

Type Locality: "Bay St. Louis, Hancock County, Mississippi"

Types: Holotype in CMNH.

270. Euphyes dukesi (Lindsey, 1923)

a. Euphyes dukesi dukesi (Lindsey, 1923)

Entomol. News 34(7): 209-210.

Original Combination: *Atrytone (Euphyes) dukesi*

Type Locality: "Mobile County, Alabama"

Types: Holotype in USNM; a paratype figured by W. Holland (1931), Butterfly Book (rev. ed.):pl. 54, fig. 26 ♂ D.

b. Euphyes dukesi calhouni Shuey, 1996

J. Lepid. Soc. 50(1): 46-47, figs. 1, 2, 3 ♂ genitalia, 7, 8, 9, 10 ♀ genitalia, 15 ♂ D, 16 ♂ V, 17 ♀ D, 18 ♀ V (?holotype).

Original Combination: *Euphyes dukesi calhouni*

Type Locality: "Florida, Pasco County, 'Cabbage Swamp.'"

Types: Holotype in CMNH.

vestris group Shuey, 1993

J. Lepid. Soc. 47(4): 271, 272.

271. Euphyes bimacula (Grote & Robinson, 1867)

a. Euphyes bimacula bimacula (Grote & Robinson, 1867)

Ann. Lyc. Nat. Hist. New York 8: 433-434.

Original Combination: *Hesperia bimacula*

Type Locality: "Atlantic District. (Philadelphia!)"

Types: Holotype may be in NYSM.

= *acanootus* (Scudder, 1868)

Proc. Boston Soc. Nat. Hist. 11: 381-382, no. 84.

Original Combination: *Hesperia Acanootus*

Type Locality: "Lexington, Mass." [Middlesex County, Massachusetts]

Types: Holotype may be in MCZ.

b. Euphyes bimacula arbogasti Gatrell, 1999

Tax. Rep. Int. Lepid. Surv. 1(10): 6, figs. 21 ♂ D, 26 ♂ V (holotype); 22 ♀ D, 27 ♀ V.

Original Combination: *Euphyes bimacula arbogasti*

Type Locality: "South Carolina: Berkeley County, nr. jct. of I-26 and hwy. 17-A"

Types: Holotype in MGCL.

- c. **Euphyes bimacula illinois** (Dodge, 1872)
 Can. Entomol. 4(11): 217-218.
Original Combination: *Hesperia illinois*
Type Locality: "Burcan [sic!] County, Illinois...upon grassy slopes on the high rolling prairie that forms the divide between the Illinois and Rock rivers" [Bureau County, Illinois]. Neotype from "Denine Crossing, Grundy County, Illinois."
Types: Syntype (#1872) in ANSP. Gatrell (1999), Tax. Rep. Int. Lepid. Surv. 1(10): 5, figs. 11 ♂ D, 16 ♂ V, designated a "neotype" in MGCL, but this is invalid if the ANSP specimen is a syntype.
 = ‡"contradicta" (Leussler, 1933)
 Entomol. News 44(3): 71.
Original Combination: *Atrytone bimacula* ♀
 aberration *contradicta*
Type Locality: "Valley, Nebraska" [Douglas County]
Types: Holotype in OSU.
272. **Euphyes arpa** (Boisduval & Le Conte, [1837])
 Hist. Lépid. Amér. sept. (23): pl. 68, figs. [1] ♂ D, [2] ♂ V, [3] ♀ D, [4] larva, [5] pupa.
Original Combination: *Hesperia Arpa*
Type Locality: Not stated (there is no text); "Georgia" implied from John Abbot's notes for this drawing.
Types: Types are the specimens that John Abbot painted and are probably lost. Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 362, noted that the "type" is in BMNH, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such Boisduval "types."
273. **Euphyes vestris** (Boisduval, 1852)
 a. **Euphyes vestris harbisoni** J. Brown & McGuire, 1983
 Trans. San Diego Soc. Nat. Hist. 20(3): 58-62, fig. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Euphyes vestris harbisoni*
Type Locality: "13.3 km east of Dulzura, north slope of Tecate Peak, elevation 500m, San Diego County, California"
Types: Holotype (#L-49) in SDMC.
- b. **Euphyes vestris vestris** (Boisduval, 1852)
 Annls. Soc. Entomol. Fr. (2)10(2): 317-318, no. 83; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, fig. 2093 ♀ D&V (holotype).
Original Combination: *Hesperia? vestris*
Type Locality: "les lieux arides"; defined as "Spanish Ranch Road at Meadow Valley Creek, vicinity of fire station in Meadow Valley, 3600', Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 23.
Types: Holotype in BMNH, figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 23, figs. 153 ♀ D, 154 ♀ V.
 = *osceola* (Lintner, 1878)
 Entomol. Contr. 4: 57-58.
Original Combination: *Pamphila Osceola*
Type Locality: "Mendocino, California"; syntype labeled "Ca." [Mendocino County]

- Types:** Syntype (#5698) in NYSM; "paratypes" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 53, fig. 40 ♂ D, 41 ♀ D; a possible syntype in CMNH (W. H. Edwards collection).
A. Warren (2005), Butterflies Ore.: 57, discussed this name and its position of the synonymy of *E. v. vestris*.
- = *californica* (Mabille, 1883)
Annls. Soc. Entomol. Belg. 27(c.r.)(31): lxxviii.
Original Combination: *Pamphila Californica*
Type Locality: "Californie"
Types: Holotype in BMNH.
- c. **Euphyes vestris kiowah** (Reakirt, 1866)
Proc. Entomol. Soc. Philad. 6(1): 150.
Original Combination: *Hesperia Kiowah*
Type Locality: "Rocky Mountains"; holotype from "Colorado"
Types: Holotype in FMNH.
- = ‡"immaculatus" (R. Williams, 1914)
Entomol. News 25(6): 267.
Original Combination: [*Pamphila vestris*] *immaculatus* n. var.
Type Locality: "Jamez [sic!; Jemez] Mountains, New Mexico" implied from the title of the paper. [Sandoval County]
Types: "Lectotype" (#7168) in CMNH, designated by Mielke (1989), Revta. bras. Entomol. 33(2): 350, figs. 5, 6 ♀ genitalia, 27 ♀ D, 28 ♀ V.
The text clearly indicates that this taxon was described as an individual variant.
- d. **Euphyes vestris metacomet** (T. Harris, 1862)
Ins. injur. Veget. (3rd ed.): 317.
Original Combination: *Hesperia Metacomet*
Type Locality: "Massachusetts" implied from the title of the first edition of the book; stated to be "Massachusetts" by Morris (1862), Smithsonian Misc. Coll. [4]: 110, no. 18.
Types: Syntypes (#26352) in MCZ.
- = *rurea* (W. H. Edwards, 1862)
Proc. Acad. Nat. Sci. Philad. 14(1/2): 54, 58, no. 7.
Original Combination: *Pamphila rurea*
Type Locality: "Rock Island, Illinois"; neotype from "Perryton Township, Mercer County, Illinois"
Types: Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 77, fig. 24 ♂ D&V.
- = *osyka* (W. H. Edwards, 1867)
Trans. Am. Entomol. Soc. 1(3): 286, 288, no. 5.
Original Combination: *Hesperia Osyka*
Type Locality: "vicinity of New Orleans" [Orleans Parish, Louisiana]
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 78, fig. 25 ♂ D&V.
Durden (1982), J. Lepid. Soc. 36(1): 9, treated this as a subspecies-level taxon.
‡"baeis" Scudder, 1889

Butterflies E. U. S. & Can. 3(12): 1865.

Original Combination: [*Euphyes osyka*]

= *Hesperia baeis* Boisd. manuscript

Proposed for a Boisduval manuscript name in the synonymy of *osyka* without a description or indication; a *nomen nudum*.

Genus **Asbolis** Mabille, 1904

In: Wytzman, Gen. Ins. (17b): 134. Type-species: *Goniloba sandarac* Herrich-Schäffer, 1865, Corresp-BI. zool.-min. Ver. Regensburg 19(3/4): 54, no. 10 (= *Eudamus capucinus* Lucas, 1857, *in:* Sagra, Hist. Cuba 7(2): 625-626; synonym), by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 25: 79.

274. **Asbolis capucinus** (Lucas, 1857)

In: Sagra, Hist. Cuba 7(2): 625-626.

Original Combination: *Eudamus Capucinus*

Type Locality: "habite l'île de Cuba"

Types: Location of type(s) not known.

= *sandarac* (Herrich-Schäffer, 1865)

Corresp-BI. zool.-min. Ver. Regensburg 19(3/4): 54, no. 10.

Original Combination: [*Goniloba*] *sandarac*

Type Locality: "Cuba" implied from the title of the paper.

Types: Syntype (#7157) in ANSP.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 137, determined that this taxon is synonymous with *palaea*, through an examination of an unpublished drawing made by Plötz (pl. 271).

= *palaea* (Hewitson, 1868)

Descr. one hundred new spec. Hesp. (2): 31, no. 21; figured by Hewitson (1869), Ill. exot. Butterflies 4(70): pl. Hesperia IV, fig. 31 ♂ D.

Original Combination: *Hesperia palaea*

Type Locality: Not stated; given as "Cuba" by Hewitson (1869), Ill. exot. Butterflies 4(70): [111] and on holotype label.

Types: Holotype in BMNH.

Genus **Atrytonopsis** Godman, 1900

In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 497. Type-species: *Hesperia deva* W. H. Edwards, 1877, Trans. Am. Entomol. Soc. 5(3/4): 292, by original designation.

275. **Atrytonopsis hianna** (Scudder, 1868)

a. **Atrytonopsis hianna hianna** (Scudder, 1868)

Proc. Boston Soc. Nat. Hist. 11: 382-383, no. 92; figured by Scudder (1889), Butterflies E. U. S. & Can. 3(12): pl. 10, figs. 31 ♂ D&V, 32 ♀ D.

Original Combination: *Hesperia Hianna*

Type Locality: "Quincy and Dorchester, Mass." [Quincy is in Norfolk County]

Types: Syntypes (#15334) in MCZ.

= *grotei* (Plötz, 1882)

Stettiner Entomol. Ztg. 44(1-3): 54, no. 360; cited unpublished pl. 360 (pl. 573 in BMNH).

Original Combination: [*Hesperia*] *Grotei*

Type Locality: "Union" [United States]

Types: Type(s) may be in ZSMC or lost.

- Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 143, determined this synonymy through an examination of the unpublished drawing made by Plötz.
- b. **Atrytonopsis hianna turneri** H. Freeman, 1948
Entomol. News 59(8): 205-206.
Original Combination: *Atrytonopsis turneri*
Type Locality: "Barber Co., Kansas"
Types: Holotype in AMNH.
276. **Atrytonopsis loammi** (Whitney, 1876)
Can. Entomol. 8(4): 76-77; figured by Skinner (1900), Entomol. News 11(4): pl. 2, fig. 27 ♂ D.
Original Combination: *Lerema loammi*
Type Locality: "Jacksonville, Fla." [Duval County]
Types: Location of syntype(s) not known (ANSP or DCM?).
Scott (1986), Butterflies N. Am.: 457, treated this as a subspecies of *A. hianna*.
= *regulus* (W. H. Edwards, 1881)
Trans. Am. Entomol. Soc. 9(1): 5.
Original Combination: *Pamphila Regulus*
Type Locality: "upper St. John's River, Orange Co., Florida" Calhoun (1997), Holarct. Lepid. 4(2): 43, suggested that this may be in modern Lake, Osceola or Seminole counties.
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 34-35, fig. 4 ♂ D&V.
= *apostologica* (Strand, 1921)
Archiv. Naturgesch. (A)86(7): 160-161.
Original Combination: *Parnara apostologica*
Type Locality: "Stemper, Fl." [Hillsborough County, Florida]
Types: Holotype in DEI.
277. **Atrytonopsis deva** (W. H. Edwards, 1877)
Trans. Am. Entomol. Soc. 5(3/4): 292.
Original Combination: *Hesperia Deva*
Type Locality: "Prescott"; neotype suggested to be from "vicinity of Tucson" [Pima County, Arizona]
Types: Neotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 38, fig. 6 ♀ D&V.
278. **Atrytonopsis lunus** (W. H. Edwards, 1884)
Papilio 4(3): 56.
Original Combination: *Pamphila Lunus*
Type Locality: "Arizona"; suggested to be "vicinity of Tucson, Pima County, Arizona" by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 35.
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 35, fig. 6 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 54, fig. 15 ♂ D (lectotype), 16 ♀ V (paralectotype).
279. **Atrytonopsis vierecki** (Skinner, 1902)
Entomol. News 13(7): 213.
Original Combination: *Pamphila vierecki*
Type Locality: "Dry Canon, Alamagordo, New Mexico" [Otero County]

- Types:** Syntypes (#7105) in CMNH; a “paratype” figured by W. Holland (1931), *Butterfly Book* (rev. ed.): pl. 54, fig. 3 ♂ D.
280. ***Atrytonopsis pittacus*** (W. H. Edwards, 1882)
Papilio 2(8): 138-139.
Original Combination: *Pamphila Pittacus*
Type Locality: “Fort Grant and in Graham Mountains, Arizona” implied from the title of the paper. [Graham County]
Types: Lectotype in CMNH, designated by F. Brown and L. Miller (1987), *Trans. Am. Entomol. Soc.* 113(1): 33, fig. 3 ♂ D&V; figured by W. Holland (1931), *Butterfly Book* (rev. ed.): pl. 54, fig. 11 ♂ D.
281. ***Atrytonopsis python*** (W. H. Edwards, 1882)
Papilio 2(8): 139.
Original Combination: *Pamphila Python*
Type Locality: “Fort Grant and in Graham Mountains, Arizona” implied from the title of the paper. [Graham County]
Types: Holotype in CMNH; figured by W. Holland (1931), *Butterfly Book* (rev. ed.): pl. 54, fig. 4 ♂ D (holotype), 5 ♀ V (paratype).
 = *margarita* (Skinner, 1913)
Can. Entomol. 45(12): 426.
Original Combination: *Pamphila margarita*
Type Locality: “Jemez Springs, New Mexico” [Sandoval County]
Types: Syntypes (#7106) in CMNH; a “paratype” figured by W. Holland (1931), *Butterfly Book* (rev. ed.): pl. 54, fig. 12 ♂ D.
282. ***Atrytonopsis cestus*** (W. H. Edwards, 1884)
Papilio 4(3): 57.
Original Combination: *Pamphila Cestus*
Type Locality: “southern Arizona”; suggested to be “vicinity of Tucson, Pima County, Arizona” by F. Brown and L. Miller (1987), *Trans. Am. Entomol. Soc.* 113(1): 31.
Types: Holotype (#33624) in USNM; figured by F. Brown and L. Miller (1987), *Trans. Am. Entomol. Soc.* 113(1): fig. 1 ♂ D&V.
283. ***Atrytonopsis edwardsi*** W. Barnes & McDunnough, 1916
Contr. Nat. Hist. Lepid. N. Am. 3(2): 135, pl. 8, figs. 9 ♂ D, 10 ♀ D.
Original Combination: *Atrytonopsis edwardsi*
Type Locality: “Redington, Ariz....Babaquivera [sic] Mts., Ariz.”; lectotype from “Redington”; Burns (1983), *Proc. Entomol. Soc. Wash.* 84(3): 337, suggested that the type locality is “higher ground to the west, to wit, the ‘Santa Catalina Mountains.’” [Pima County]
Types: Lectotype in USNM, designated by Burns (1983), *Proc. Entomol. Soc. Wash.* 84(3): 337, fig. 13 ♂ D&V, figs. 25-27 ♂ genitalia.
 = ‡“polingi” Gunder, 1925
Entomol. News 36(7): 195, no. 3, pl. 5, fig. 3 ♂ V (“holotype”).
Original Combination: *Atrytonopsis edwardsi* ab. ♂ *polingi*
Type Locality: “Baboquivari Mountains, Pima County, Arizona”
Types: “Holotype” in AMNH.

Genus **Nyctelius** Hayward, 1948

Acta zool. Lilloana 5: 99. Type-species: *Hesperia nyctelius* Latreille, [1824], in: Ency. méth. 9(Ins.)(2): 746, no. 47[a], by original designation.

284. **Nyctelius nyctelius** (Latreille, [1824])
- a. **Nyctelius nyctelius nyctelius** (Latreille, [1824])
In: Ency. méth. 9(Ins.)(2): 746, no. 47[a].
Original Combination: [*Hesperia*] *Nyctelius*
Type Locality: "Brésil & à Surinam"
Types: Syntype in BMNH (not in MNHP), as noted by N. Riley (1926), Trans. Entomol. Soc. Lond. 74(2): 234.
 = *ares* (C. Felder, [1863])
 Verh. zool.-bot. Ges. Wien 12(1): 477, no. 65.
Original Combination: *Hesperia Ares*
Type Locality: "Rio de Janeiro" [Brazil]
Types: Holotype probably in NMW.
 = *coscinia* (Herrich-Schäffer, 1865)
 Corresp.-Bl. zool.-min. Ver. Regensburg 19(3/4): 54, no. 9.
Original Combination: [*Goniloba*] *coscinia*
Type Locality: "Cuba" implied from the title of the paper.
Types: Syntype (#7141) in ANSP.
 ‡"aegialea" (Plötz, 1882)
 Stettiner Entomol. Ztg. 44(1-3): 52, under no. 346.
Original Combination: [*Hesperia*] *Coscinia* [synonym] *Aegialea*
 This name listed in synonymy without description or indication; a *nomen nudum*.

Genus **Conga** Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 266, 294. Type-species: *Pamphila chydaea* Butler, 1877, Trans. Entomol. Soc. Lond. (4)1877(2): 152, no. 259, by original designation.

285. **Conga chydaea** (Butler, 1877)
 Trans. Entomol. Soc. Lond. (4)1877(2): 152, no. 259.
Original Combination: *Pamphila chydaea*
Type Locality: "Serpa, in the bush" [Amazonas, Brazil]
Types: Holotype in BMNH.
 = *valo* (Mabille, 1891)
 Anns. Soc. Entomol. Belg. 35(c.r.)(18): clxxv.
Original Combination: *Pamphila Valo*
Type Locality: "Bogota" [Colombia]
Types: Holotype probably in MNHP.
 = *vala* (Mabille, 1891)
 Anns. Soc. Entomol. Belg. 35(c.r.)(18): clxxvi.
Original Combination: *Pamphila Vala*
Type Locality: "Chiriqui" [Panama]
Types: Holotype probably in ZMHB.
 = *actor* (Mabille, 1891)
 Anns. Soc. Entomol. Belg. 35(c.r.)(18): clxxxii.
Original Combination: *Pamphila Actor*
Type Locality: "Chiriqui" [Panama]
Types: Types in ZMHB.

Genus **Decinea** Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 266, 286. Type-species: *Hesperia decinea* Hewitson, 1876, Ann. Mag. Nat. Hist. (4)18(108): 452, by original designation.

286. **Decinea percosius** (Godman, 1900)
In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(159): 536, no. 4; 3(158): pl. 95, figs. 22 ♂ D, 23 ♂ V, 24 ♂ genitalia.
Original Combination: *Cobalus percosius*
Type Locality: "Mexico, Atoyac...Guatemala, Zapote...Panama, Chiriqui [Mus Staudinger]"; a specimen from Atoyac was figured. [Atoyac, Veracruz, Mexico]
Types: Syntypes in BMNH.

Genus **Oligoria** Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 82. Type-species: *Hesperia maculata* W. H. Edwards, 1865, Proc. Entomol. Soc. Philad. 4(1): 201, 202, pl. 1, fig. 6, by original designation.

287. **Oligoria maculata** (W. H. Edwards, 1865)
 Proc. Entomol. Soc. Philad. 4(1): 201, 202, pl. 1, fig. 6 ♀ D&V.
Original Combination: *Hesperia maculata*
Type Locality: "New Orleans"; neotype from "Edgard, St. John the Baptist Parish, Louisiana."
Types: Neotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 59, fig. 23 ♀ D&V.
 = *deleta* (Herrich-Schäffer, 1869)
 Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 202, no. 54.
Original Combination: [*Cobalus*] *deleta*
Type Locality: Not stated.
Types: Type(s) may be in NMW.
 Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 141, determined this synonymy through an examination of the unpublished drawing (pl. 507) made by Plötz.
 = *grossula* (Herrich-Schäffer, 1869)
 Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 202, no. 56.
Original Combination: [*Cobalus*] *grossula*
Type Locality: Not stated.
Types: Type(s) may be in NMW.
 Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 141, determined this synonymy through an examination of the unpublished drawing (pl. 507) made by Plötz.
 = *norus* (Plötz, 1882)
 Stettiner Entomol. Ztg. 44(1-3): 36, no. 268; cited unpublished pl. 518.
Original Combination: [*Hesperia*] *Norus*
Type Locality: "New-Orleans" [Louisiana]
Types: Type(s) may be in ZSMC or lost.
 Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 142, determined this synonymy through an examination of the unpublished drawing made by Plötz.
 ‡"orthomenes" Scudder, 1889

Butterflies E. U. S. & Can. 2(11): 1761.

Original Combination: [*Oligoria maculata*]

= *Hesperia orthomenes*

Scudder mentioned "*Hesperia orthomenes* Boisduval manuscript" in the synonymy of this species without a description or indication; a *nomen nudum*.

Genus **Thespheus** Godman, 1900

In: Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(158): 519. Type-species: *Hesperia dalman* Latreille, [1824], Ency. méth. 9(Ins.)(2): (717), 747, no. 48, by original designation.

- 288. Thespheus macareus** (Herrich-Schäffer, 1869)
Corresp-BI. zool.-min. Ver. Regensburg 23(12): 192, no. 53.
Original Combination: [*Goniloba*] *macareus*
Type Locality: Not stated.
Types: Lectotype in ZMHB, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 66.
= *emacareus* (Plötz, 1882)
Stettiner Entomol. Ztg. 43(10-12): 438, no. 148; cited unpublished pl. 393.
Original Combination: [*Hesperia*] *Emacareus*
Type Locality: "Venezuela"
Types: Type(s) may be in ZSMC or lost.
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 139, determined this synonymy through an examination of the unpublished drawing made by Plötz.
= *cacajo* Dyar, 1913
Proc. U. S. Nat. Mus. 44(1951): 280.
Original Combination: *Thespheus cacajo*
Type Locality: "Naranjo, Guerrero, Mexico, 3,000 feet"
Types: Lectotype (#14489) in USNM, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 66, but the original description noted that the holotype (#21216) is in the USNM.

Superfamily **PAPILIONOIDEA** Latreille, [1802]

Hist. Nat. Crust. Ins. 3: 387 (as "Papilionides"). Type-genus: *Papilio* Linnaeus, 1758. I.C.Z.N. *Opinion* 278 placed *Papilio* on the *Official List of Generic Names in Zoology* as name no. 703. I.C.Z.N. *Direction* 99 placed Papilionidae [Leach], [1815] (as "Papilionida"), in: Brewster's Edinburgh Ency. 9: 127, on the *Official List of Family-Group Names in Zoology* as name no. 233, and placed Papilionida [Leach] on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 271; I.C.Z.N. *Direction* 116 deleted this entry, corrected as above, and placed Papilionides on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 500.

Family **PAPILIONIDAE** Latreille, [1802]

Subfamily **Parnassiinae** Duponchel, [1835]

In: Godart, Hist. Nat. Lépid. Fr. Suppl. 1(22): 380. Type-genus: *Parnassius* Latreille, 1804, Nouv. Dict. Hist. Nat. 24(tab.): 185, 199.

Tribe **Parnassiini** Duponchel, [1835]

Genus **Parnassius** Latreille, 1804

Nouv. Dict. Hist. Nat. 24(tab.): 185, no. 472, 199. Type-species: *Papilio apollo* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 465, no. 41, by monotypy. Koçak (1981), Priamus 1(2): 51 (nota), claimed that *Parnassius* was first used as a proper genus by Schneider (1785), Nomen. Entomol.: 34 (as

"2 *Parnassius* F."). Schneider did not use the name in a generic sense, but as an interposed adjective; Wagener (1988), *Nota Lepid.* 11(3): 237-238, discussed this issue. *Nomina collectiva* are descriptive epithets applying to individual variants below the subspecies-level. They frequently lack a description or indication and are almost always cited in some kind of quadrinomial combination. In the following synonymies, *nomina collectiva* are referenced for each taxon, but not listed individually.

- = ‡*Doritis* [Fabricius], 1807
In: Illiger, Mag. f. Insektenk. 6: 283, no. 22. Type-species: *Papilio apollo* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1: 465, no. 41, by designation of Dalman (1816), K. svenska VetenskAkad. Handl. 37(1): 60. A junior objective synonym of *Parnassius* Latreille, 1804.
- = ‡*Parnassis* Hübner, [1819]
Verz. bekannt. Schmett. (6): 90. Type-species: *Papilio apollo* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1: 465, no. 41, by designation of Hemming (1939), *Proc. R. Entomol. Soc. Lond.* (B)8(7): 136. A junior objective synonym of *Parnassius* Latreille, 1804. This name may have been a misspelling, emendation, or a new description by Hübner; see Hemming (1967), *Bull. Brit. Mus. Nat. Hist.* (Entomol.) Suppl. 9: 345.
- = ‡*Therius* Billberg, 1820
Enum. Ins. Mus. Billb.: 75. Type-species: *Papilio apollo* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1: 465, no. 41, by designation of Hemming (1933), *Entomol.* 66(844): 199. A junior objective synonym of *Parnassius* Latreille, 1804.
- = *Tadumia* Moore, 1902
Lepid. Ind. 5(53): 116. Type-species: *Parnassius acco* Gray, [1853], *Cat. Lepid. Ins. Brit. Mus.* 1(Pap.): 76, no. 350, pl. 12, figs. 5, 6, by original designation.
- = *Kailasius* Moore, 1902
Lepid. Ind. 5(53): 118. Type-species: *Parnassius charltonius* G. Gray, [1853] *Cat. Lepid. Ins. Brit. Mus.* 1(Pap.): 77, no. 355, pl. 12, fig. 7, by original designation.
- = *Koramius* Moore, 1902
Lepid. Ind. 5(53): 120. Type-species: *Doritis delphius* Eversmann, 1843, *Bull. Soc. Imp. Nat. Moscou* 16(3): 541, pl. 7, fig. 1A, B, by original designation.
- = *Lingamius* Bryk, 1935
Tierreich 65: 538-540. Type-species: *Parnassius hardwickii* G. Gray, 1831, *Zool. Miscell.* (J. E. Gray) (1): 32, by original designation. This name was proposed twice by Bryk (1932), *Parnassiana* 2(1): 1, and *Parnassiana* 2(2): 20; no diagnosis or type-species designation was included in either publication. Since these names were proposed after 1930, they are not available (Code Articles 13.1.1, 13.3, 67.4.1).
- = *Eukoramius* Bryk, 1935
Tierreich 65: 630, 673-674. Type-species: *Parnassius imperator* Oberthür, 1883, *Annls. Soc. Entomol. Fr.* 6(3)(bull.)2(5): lxxvi-lxxvii, by monotypy. This name was proposed by Bryk (1934), *Parnassiana* 3(3): 43; without a diagnosis or type-species designation; since this name was proposed after 1930, it is not available (Code Articles 13.1.1, 13.3, 67.4.1).
- = *Driopa* Korshunov, 1988
Nov. Maloizvestiye Vidy Fauny Sib. No. 20: 65-67. Type-species: *Papilio mnemosyne* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1: 465, no. 42, by original designation.
- = *Erythrodrriopa* Korshunov, 1988

- Nov. Maloizvestiye Vidy Fauny Sib. No. 20: 67. Type-species: *Parnassius ariadne* Lederer, 1853, Verh. zool.-bot. Ges. Wien 3: 354, by original designation.
- = *Sachaia* Korshunov, 1988
Nov. Maloizvestiye Vidy Fauny Sib. No. 20: 67-68. Type-species: *Parnassius tenedius* Eversmann, 1851, Bull. Soc. Imp. Nat. Moscou 24(2)(11): 621-622, no. 10, by original designation.
- = ‡*Adoritis* Koçak, 1989
Priamus 4(4): 165-167. Type-species: *Papilio mnemosyne* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 465, no. 42, by original designation. A junior objective synonym of *Triopa* Korshunov, 1988.
- = *Quinhaicus* Korshunov, 1990
Chlenist. Gelmint. sbornik trudov: 99. Type-species: *Parnassius szechenyii* Frivaldszky, 1886, Természettud. Fü. 10(1): 39, pl. 4, figs. 1, 1a, by original designation.
- = *Kreizbergius* Korshunov, 1990
Chlenist. Gelmint. sbornik trudov: 102. Type-species: *Parnassius simo* G. Gray, [1852], Cat. Lepid. Ins. Brit. Mus. 1: 76, no. 351, pl. 12, figs. 3, 4, by original designation.
- = *Eversmanniodriopa* Korb, 2005
Cat. Butterflies ex USSR: 13. Type-species: *Parnassius eversmanni* [Ménétriés], [1850], in: Simashko, Russk. Fauna (17)(Lepid.): Pl. 4, fig. 5 ♂ D&V, legend, by original designation.

***289. *Parnassius eversmanni* [Ménétriés], [1850]**
In: Simashko, Russk. Fauna (17)(Lepid.): Pl. 4, fig. 5 ♂ D&V, legend.

Original Combination: *P[arnassius]. Eversmanni*

Type Locality: Not stated; "Russia" implied from the title of the work; defined as "Kansk" by Ménétriés (1855), Enum. corp. anim. (1): 74, no. 110. [Krasnoyarsk Kray, Russia]

Types: Holotype in ZIN; figured by Chikolovets *et al.* (2002), Butterflies Transbaikal Siberia: pl. 48, fig. 4 ♂ D.

Nekrutenko and Kerzhner (1986), Entomol. Obozr. 65(4): 774, discussed this species. *Nomina collectiva* were proposed for this taxon by Bryk and Eisner (1932), Parnassiana 2: 92-93, Eisner (1955), Zoöl. Meded. 33(17): 139, and (1966), Zool. Verh. (81): 18.

= ‡*altaica* Verity, [1911]

Rhop. palae. (26-29): 319, pl. 64, fig. 19 ♂ D; ind. syst.: xxiii.

Original Combination: [*Parnassius eversmanni*] race *altaica*

Type Locality: "Tchujia Mts., 1800-2400 m, S.-E. de l'Altai" implied from the legend to plate 64.

Types: Syntypes in BMNH and ZMKU.

Preoccupied by *Parnassius intermedius* var. *altaica* Ménétriés, 1859, in: Schrenck, Reise Amur-Lande 2(1): 12, 13.

= *lacinia* Hemming, 1934
Stylops 3(9): 198.

Original Combination: *Parnassius eversmanni lacinia*
Proposed as a replacement name for *Parnassius eversmanni* race *altaica* Verity, [1911], with the same data (Code Article 60.3).

= ‡"flavescens" O. Bang-Haas, 1927
Horae Macrolepid. 1(1): 7.

Original Combination: [*Parnassius eversmanni felderi*] ab. *flavescens*

Type Locality: "Sajan-Gebirgen" [Sayan Mountains, Krasnoyarski Kray, Russia]

Types: "Holotype" in ZMHB.

- = ‡"*amplusdecora*" Eisner, 1928
Int. Entomol. Z. 22(32): 302.

Original Combination: [*Parnassius eversmanni eversmanni*] ab. *amplusdecora*

Type Locality: "Sajan-Gebirge" [Sayan Mountains, Krasnoyarski Kray, Russia]

Types: "Holotype" in RMNH.

- a. ***Parnassius eversmanni thor*** Hy. Edwards, 1881
Papilio 1(1): 4.

Original Combination: *Parnassius Thor*

Type Locality: "about 800 miles up the Yukon river, Alaska"

Types: Holotype in AMNH; figured by Skinner (1916), Entomol. News 27(5): pl. 12, fig. 1 ♀ D.

Nomina collectiva were proposed for this taxon by Bryk and Eisner (1934), Parnassiana 3(1): 15, Bryk (1934), Parnassiana 3(2): 32, and Eisner (1978), Zoöl. Meded. 53(11): 109.

- = ‡"*meridionalis*" Eisner, 1978
Zoöl. Meded. 53(11): 109, pl. 2, figs. 9 ♀ D, 10 ♂ D (holotype).

Original Combination: *Parnassius eversmanni meridionalis*

Type Locality: "Pink Mt., B. C., 122° 30' long., 57 ° lat." [British Columbia]

Types: "Holotype" in RMNH.

Preoccupied by *Parnassius apollo meridionalis* Pagenstecher, 1909, Entomol. Z. 22(44): 187.

- = *pinkensis* Gauthier, 1984
Entomol. Z. 94(21): 319.

Original Combination: *Parnassius eversmanni pinkensis*

Proposed to replace *meridionalis* Eisner, 1978, with the same data (Code Article 60.3).

- = ‡"*kohlsaati*" Gunder, 1932
Pan-Pac. Entomol. 8(3): 123.

Original Combination: *Parnassius eversmanni* race *thor* tr. f. *kohlsaati*

Type Locality: "McKinley National Park, Alaska" [Denali National Park]

Types: Holotype in AMNH.

290. ***Parnassius clodius*** Ménériés, 1855

- a. ***Parnassius clodius strohbeeni*** Sternitzky, 1945

†

Proc. New Engl. Zool. Club 23: 82-83.

Original Combination: *Parnassius clodius strohbeeni*

Type Locality: "Santa Cruz, California" [Santa Cruz County]

Types: Holotype (#27214) in MCZ.

- = ‡"*dodgei*" Gunder, 1932

Pan-Pac. Entomol. 8(3): 123; cited J. A. Comstock (1927), Butterflies Calif.: pl. 5, fig. 6 ♂ D.

Original Combination: *Parnassius clodius* tr. f. *dodgei*

Type Locality: "Santa Cruz Hills, Santa Cruz, California" [Santa Cruz County]

Types: "Holotype" in AMNH.

- b. **Parnassius clodius clodius** Ménétriés, 1855
Enum. corp. anim. (1): 7, no. 109; 73, no. 109.

Original Combination: *Parnassius clodius*

Type Locality: "Californie"; defined as "Marin county...Bear Valley" by J. Shepard and S. Shepard (1975), in: Howe, Butterflies N. Am.: 405.

Types: Type(s) may be in ZIN.

Nomina collectiva were proposed for this taxon by Bryk and Eisner (1932), Parnassiana 2(6-8): 96, (1937), Parnassiana 5(1/3): 4, Eisner (1955), Zoöl. Meded. 33(17): 141, and (1957), Zoöl. Meded. 35(8): 87.

= ‡"castus" Bryk, 1913

Arch. Naturgesch. (A)79(3): 2-3, no. 7; cited *Parnassius clodius* (*sensu* W. H. Edwards (1871), Butterflies N. Am. [1](7): pl. Parnassius 1, fig. 5 ♂ D).

Original Combination: *Parnassius clodius* ab. *castus*

Type Locality: Not stated.

Types: "Holotype" (#375) in ZMHB.

- c. **Parnassius clodius claudianus** Stichel, 1907

In: Wytzman, Gen. Ins. 58: 15, no. 5c (nota 1); cited *Parnassius clodius* (*sensu* Verity [1907], Rhop. Pal.: pl. 22, figs. 17 ♂ D, 18 ♂ D, 19 ♀ D).

Original Combination: *Parnassius clodius claudianus*

Type Locality: "Washington"; "western Washington" according to J. Shepard and S. Shepard (1975), in: Howe, Butterflies N. Am.: 405.

Types: Syntypes (#27918, 27919, 27920, 27921) in ZMHB. The specimen cited by Verity (fig. 19, ♀ from British Columbia) is in ZMKU.

Nomina collectiva were proposed for this taxon by Eisner (1955), Zoöl. Meded. 33(17): 142, and (1957), Zoöl. Meded. 35(8): 88-89.

= *baldus* Ehrmann, 1918

Lepidoptera 2(4): 29.

Original

Combination: *Parn[assius]. smintheus* v. *baldus*

Type Locality: "Olympic Mountains, Washington" [Clallam County]

Types: Holotype in CMNH.

= ‡*kallias* Ehrmann, 1918

Lepidoptera 2(6): 41.

Original

Combination: *Parn[assius]. clodius* var. *kallias*

Proposed to replace *baldus* Ehrmann, 1918, erroneously thought preoccupied; a junior objective synonym of *baldus*.

- d. **Parnassius clodius pseudogallatinus** Bryk, 1913

Arch. Naturgesch. (A)79(3): 3; cited *Parnassius clodius* (*sensu* Verity [1907], Rhop. palae. (7-8): pl. 22, figs. 17 ♂ D, 18 ♂ D, 19 ♀ D); figured by Bryk (1935), Tierreich 65: fig. 158 ♂ D.

Original Combination: *Parnassius*

clodius var. *pseudogallatinus*

Type Locality: "Brit. Columb. (Yale 1890)"

Types: Syntypes in ZMHB and BMNH.

Nomina collectiva were proposed for this taxon by Eisner (1955), Zoöl. Meded. 33(17): 143, and (1957), Zoöl. Meded. 35(8): 89.

= *hel* Eisner, 1956

Zoöl. Meded. 34(18): 243-244, pl. 3, figs. 1 ♂ D (holotype), 2 ♀ D.

Original Combination: *Parnassius clodius hel*

Type Locality: "Stevens Pass, Mts. Cascade, Washington, 4500'" [King-Chelan counties]

Types: Holotype in RMNH.

Nomina collectiva were proposed for this taxon by Eisner (1956), Zoöl. Meded. 34(18): 243, pl. 2, figs. 5 ♂ D, 6 ♂ V, and (1957), Zoöl. Meded. 35(8): 89.

e. *Parnassius clodius incredibilis* Bryk, 1935

Tierreich 65: 162-163.

Original Combination: *P[arnassius]. clodius incredibilis*

Type Locality: "S. Elja Berg (Alaska)" [Mt. St. Elias, Alaska.]

Types: Holotype in BMNH.

Bryk & Eisner 1932, Parnassiana 2(6-8): 99, listed this name without a description or indication; a *nomen nudum*. It is possible that the type of this taxon was mislabeled.

f. *Parnassius clodius sol* Bryk & Eisner, 1932

Parnassiana 2(6-8): 97, fig. 6 ♂ D (holotype); figured by Bryk (1935), Tierreich 65: fig. 157 ♂ D (holotype).

Original Combination: [*Parnassius clodius*] *sol*

Type Locality: "Nevada"; corrected to "Sierra-Nevada" [California] by Eisner (1961), Zool. Meded. 37(11): 172; defined as "California...Baxters, Placer County" by J. Shepard and S. Shepard (1975), *in*: Howe, Butterflies N. Am.: 405.

Types: Holotype in RMNH.

Nomina collectiva were proposed for this taxon by the authors at the time of the original description.

= ‡"sulfureus" Gunder, 1932

Pan-Pac. Entomol. 8(3): 124.

Original Combination: *Parnassius*

clodius race *baldur* tr. f. *sulfureus*

Type Locality: "Davis Creek, Modoc County, California"

Types: "Holotype" in AMNH.

g. *Parnassius clodius baldur* W. H. Edwards, 1877

Trans. Am. Entomol. Soc. 6(1): 12, no. 24; cited *Parnassius clarius* (*sensu* W. H. Edwards (1871), Butterflies N. Am. [1](7): pl. Parnassius 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V).

Original Combination: *Parnassius Baldur*

Type Locality: "California, Sierras; Utah; Montana"; defined as "Tioga Pass" by F. Brown (1975), Trans. Am.

Entomol. Soc. 101(1): 5. [Mono-Tuolumne counties, California]

Types: Lectotype in CMNH, designated by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 5, fig. 1 ♂ D&V.

Nomina collectiva were proposed for this taxon by Bryk and Eisner (1932), Parnassiana 2: 97, Eisner (1955), Zoöl. Meded. 33(17): 142, and (1957), Zoöl. Meded. 35(8): 87-88.

= ‡"lorquini" Oberthür, 1891
Étud. Entomol. 14: 7, 17-18, pl. 2, fig. 17 ♂ D ("holotype").

Original Combination: *Parnassius*

clodius ab. *lorquini*

Type Locality: "Californie"

Types: "Holotype" in BMNH?

= ‡"lusca" Stichel, 1907
In: Wytsman, Gen. Ins. 58: 14, no. 5ba (nota 1).

Original Combination: *Parnassius clodius*

baldur forma *lusca*

Type Locality: "Californien"

Types: "Holotype" may be in SMNS (Seitz collection).

= ‡"binigrimaculella" Gunder, 1926
Entomol. News 37(1): 8-9, no. 13, pl. 1, figs. 13 ♂ D ("holotype").

Original Combination: *Parnassius*

clodius var. *baldur* ab. ♂ *binigrimaculella*

Type Locality: "Gold Lake, Sierra County, California"

Types: "Holotype" in AMNH.

h. *Parnassius clodius altaurus* Dyar, 1903

Proc. Entomol. Soc. Wash. 5(4): 290-291.

Original Combination: *Parnassius clodius* var. *altaurus*

Type Locality: "Alturas Lake, near Saw-tooth Mt., Idaho, 7,000-9000 feet"

Types: Holotype (#6769) in USNM.

Dyar [1903], Bull. U. S. Nat. Mus. 52: 1, no. 1, listed this name without a description or indication; a *nomen nudum*. A *nomen collectivum* was proposed for this taxon by Bryk and Eisner (1932), Parnassiana 2(6): 96.

= *gallatinus* Stichel, 1907
In: Wytsman, Gen. Ins. 58: 15, no. 5d (nota 2); cited *Parnassius clodius* (*sensu* Elrod and Maley (1906), Bull. Univ. Montana 30, (Biol. Ser.) 2(10): fig. 15 ♀ & ♂ D.

Original Combination: *Parnassius clodius*
gallatinus

Type Locality: "aus dem südlichen Teile von Montana"; suggested to be "Gallatin Co. Mont./ Elev. 6800" by Kohler (1978), J. Lepid. Soc. 32(1): 1-2.

Types: Lectotype in AMNH, designated by Kohler (1978), J. Lepid. Soc. 32(1): 1-2, figs. 1 ♂ D, 2 ♂ V (figs. 3 ♀ D, 4 ♀ V are of the sole paralectotype).

Nomina collectiva were proposed for this taxon by Eisner (1955), Zoöl. Meded. 33(17): 143, and (1957), Zoöl. Meded. 35(8): 89.

= *immaculata* Skinner, 1911

Entomol. News 22(3): 108; figured by Skinner (1916), Entomol. News 27(5): pl. 12, fig. 7 ♂ D (holotype).

Original Combination: *Parnassius immaculata*

Type Locality: "Old Faithful Geyser, Yellowstone Park, Wyoming"

Types: Holotype (#7025) in ANSP; figured by W. Holland (1931), Butterfly Book. (rev. ed.): pl. 75, fig. 3 ♂ D.

= *shepardi* Eisner, 1966

Zoöl. Meded. 41(8): 145-146, pl. 1, figs. 1 ♂ D (holotype), 2 ♀ D.

Original Combination: *Parnassius clodius shepardi*

Type Locality: "Wawawai, Snake River, Whitman Co., Washington, U.S.A."

Types: Holotype in RMNH.

A. Warren (2005), Butterflies Ore.: 59, discussed this taxon and its placement in synonymy.

- i. **Parnassius clodius menetriesii** Hy. Edwards, 1877
Proc. Calif. Acad. Sci. [1]7(12): 164-165.

Original Combination: *Parnassius Menetriesii* n. var. of *Clodius*

Type Locality: "Bear Valley, Sierra Nevada...Lake Tahoe...Downieville, Cal[ifornia]...Mt. Nebo, Utah"; lectotype from "Mt. Nebo, Utah." [Juab-Utah counties]

Types: Lectotype in AMNH; designated by W. Barnes and McDunnough (1918), Contr. Nat. Hist. Lepid. N. Am. 4(2): 62; figured by Skinner (1916), Entomol. News 27(5): pl. 12, fig. 3 ♂ D.

A *nomen collectivum* was proposed for this taxon by Eisner (1957), Zoöl. Meded. 35(8): 90.

- *291. **Parnassius phoebus** (Fabricius, 1793)

Entomol. Syst. 3(1): 181, no. 561; cited Jones' Icones 2: pl. 2, fig. 2.

Original Combination: *P[apilio] P[arnasius]. Phoebus*

Type Locality: "Siberia"; "neotypes" from "Altai: Ongodai, Kurai Paß, Arassam Quelle." [Altai Republic, Altay Kray, Russia]

Types: Type(s) presumed lost. "Neotypes" in ZMHB, designated by Bryk (1935), Tierreich 65: 219, figs. 215 ♂ D, 215a ♀ D, but this action violated Code Article 75. Bryk designated two neotypes, which is improper procedure. It is here presumed that one will eventually be accepted.

Nekrutenko and Kerzhner (1986), Entomol. Obozr. 65(4): 776, discussed the probable type locality for this species.

They determined that Pallas (collector of the original specimen) probably sent the type to Drury, which became the basis for William Jones' unpublished figure. The details of Pallas' journey indicate two regions from which *phoebus* might have been collected: 1) the Irtysh Valley, Western and Northern Altai, or 2) the Transbaikalian area of the Yenisey. Nekrutenko and Kerzhner considered that the Altai region was more probable. The nomenclature proposed by J. Shepard and Manley (1998), Syst. W. N. Am. Butterflies (58): 717-726, is followed. Also see Gluschenko and Martynenko (1997), Anim. Veg. World Far East: 31-40, (2000), Kurentsov's Ann. Mem. Mtgs. 11: 63-96, Martynenko *et al.* (2003), Helios 4: 75-91, Churkin (2004),

Helios 5: 110-114, and Omoto, *et al.* (2004), Gene 326: 141–147, where divergent arguments are presented.

= ‡"altaica" Ménétriés, 1859

In: Schrenck, Reise Amur-Lande 2(1): 12-13, under no. 53.

Original Combination: *Parnassius*

Phoebus var. *intermedius* Forme *altaica*

Type Locality: "l'Altai" [Altai Republic, Altay Kray, Russia]

Types: Lectotype in ZIN, designated by Nekrutenko and Kerzhner (1986), Entomol. Obozr. 65(4): 775.

= *halasicus* Huang & Murayama, 1992

Tyo to Ga 43(1): 3, fig. 4 ♂ D.

Original Combination: *Parnassius phoebus halasicus*

Type Locality: "Halasai, Altai, 1700-1900 m, grassland in forest zone to subalpine grassland" [Xinjiang Uygur, China]

Types: Holotype in Xinjiang University, China.

= ‡"virginea" Austaut, 1910

Entomol. Z. 24(11): 55.

Original Combination: *Parnassius*

Ruckbeil ab. *virginea*

Type Locality: "Barkoul" [Barkol, Xinjiang Uygur, China]

Types: Location of "type(s)" not known; possibly at MNHP?

= ‡"alpestris" Verity, [1911]

Rhop. palae. (26-29): 314, pl. 63, figs. 19 ♂ D, 20 ♀ D; (30-36): ind. syst.: xx [31 Oct 1911].

Original

Combination: *P[arnassius]. delius* var. *intermedius* f orme *alpestris*, from the legend to plate 63 and the index.

Type Locality: "l'Altai...hauts sommets" implied from the text, "Tchuja mountains, 1800-2400m" from the legend to plate 63. [Altai Republic, Altay Kray, Russia]

Types: "Syntypes" in BMNH and ZMKU.

= ‡"melanica" Verity, [1911]

Rhop. palae. (26-29): 314, pl. 63, fig. 18 ♂ D ("holotype"); (30-36): ind. syst.: xx [31 Oct 1911].

Original

Combination: *P[arnassius]. delius* var. *intermedius* ♀ ab. *melanica*, from the legend to plate 63 and the index.

Type Locality: "l'Altai...des vallées" implied from the text, "Kuraipan, 2100m., Altai" from the legend to plate 63. [Altai Republic, Altay Kray, Russia]

Types: "Holotype" in BMNH.

= ‡"leucostigma" Austaut, 1912

Int. Entomol. Z. 6(13): 87, 125.

Original Combination: *Parnassius*

Ruckbeil ab. *leucostigma*

Type Locality: "alpe de Chamil-Hami" "alpes de Chamil" [Hami, Xinjiang Uygur, China]

Types: Location of "holotype" not known; possibly at MNHP?

= ‡"punctatus" Bryk, 1912

- Soc. Entomol. 27(12): 57.
Original Combination: *Parnassius delius* ab. *punctatus*
Type Locality: "Altai" [Altai Republic, Altay Kray, Russia]
Types: "Holotype" probably in RMNH.
- = ‡"reciprocus" Bryk, 1913
 Soc. Entomol. 28(16): 95.
Original Combination: *Parnassius phoebus* var. *intermedia* ab. *reciprocus*
Type Locality: "Altai" [Altai Republic, Altay Kray, Russia]
Types: "Holotype" probably in RMNH.
- a. **Parnassius phoebus apricatus** Stichel, 1906
 Berl. Entomol. Z. 51(1): 87, pl. 2, figs. 13a ♂ D, 13b ♀ D.
Original Combination: *Parnassius phoebus apricatus*
Type Locality: "aus Kadiak, Insel südlich von Alaska, Nord-Amerika" [Kodiak Island, Alaska]
Types: Syntypes in ZMHB; figured by Bryk (1935), Tierreich 65: figs. 234 ♂ D, 234a ♀ D.
 = *elias* Bryk, 1934
 Parnassiana 3(2): 31-32, no. 41; figured by Bryk (1935), Tierreich 65: fig. 233 ♂ D.
Original Combination: *Parnassius phoebus elias*
Type Locality: "St. Ilja (Alaska)" [Mt. St. Elias]
Types: Holotype in RMNH; figured by Eisner (1966), Zool. Verh. (81): pl. 22, fig. 3 ♂ D.
 = *alaskensis* Eisner, 1956
 Zoöl. Meded. 34(18): 244-245, pl. 3 figs. 7 ♂ D (holotype), 8 ♀ D.
Original Combination: *Parnassius phoebus alaskensis*
Type Locality: "Mt. Kinley Park, Alaska centr."; stated as "Mount McKinley National Park" by Eisner (1957), Zoöl. Meded. 35(8): 95. [Denali National Park]
Types: Holotype in RMNH.
 This was spelled "alaskaensis" by Eisner (1957), Zoöl. Meded. 35(8): 95, representing either an incorrect subsequent spelling of *alaskensis* Eisner, 1956, or an unjustified emendation.
- b. **Parnassius phoebus golovinus** W. Holland, 1930
 Ann. Carnegie Mus. 19(3): 155-156; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 69, figs. 3 ♂ D, 4 ♂ V, 5 ♀ D, 6 ♀ V.
Original Combination: *Parnassius golovinus*
Type Locality: "Golovin Bay" [NW Alaska]
Types: Lectotype in CMNH, designated by W. Holland (1931), Butterfly Book (rev. ed.): pl. 69, figs. 3 ♂ D (lectotype) 4 ♂ V (paralectotype), 5 ♀ D (paralectotype), 6 ♀ V (paralectotype).
292. **Parnassius behrii** W. H. Edwards, 1870
 Trans. Am. Entomol. Soc. 3(1): 10, no. 1; figured by W. H. Edwards (1872), Butterflies N. Am. [1](10): pl. Parnassius 3, fig. 3 ♂ D&V.
Original Combination: *Parnassius Behrii*
Type Locality: "Sierra Nevada"; defined as "top of Mt. Lyell, at an altitude of nearly 11,000 ft." by F. Brown (1975), Trans.

Am. Entomol. Soc. 101(1): 11; neotype from "Tioga Pass, Cal." [Mono-Tuolumne counties, California]

Types: Neotype in CMNH, designated by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 12, fig. 3 ♂ D&V.

Nomina collectiva were proposed for this taxon by Eisner (1957), Zoöl. Meded. 35(8): 97.

= *niger* W. G. Wright, 1905

Butterflies W. Coast: 47, no. 10; 79, no. 10, pl. 2, fig. 10 ♂ D (holotype).

Original Combination: [*Parnassius*

Smintheus var.] *Niger*, *Parnassius Niger* n. v.

Type Locality: "Sierra Nevada"; "Summit, Cal." [Donner Summit, Sierra County, California]

Types: Holotype (#4278) in CAS.

= *astriotes* Fruhstorfer, 1923

Soc. Entomol. 38(2): 5.

Original Combination: *P[arnassius]. delius astriotes*

Type Locality: "California, Süd-Ost Sierra"

Types: Syntypes in ZSMC.

293. ***Parnassius smintheus*** E. Doubleday, 1847

a. ***Parnassius smintheus sternitzkyi*** McDunnough, 1937

Can. Entomol. 68(12): 273-274, figs. of ♂ D (holotype) and ♀ D.

Original Combination: *Parnassius smintheus* var. *sternitzkyi*

Type Locality: "Castle Lake, Siskiyou Co. Calif." [California]

Types: Holotype (#4116) in CNC.

W. H. Edwards (1862), Proc. Acad. Nat. Sci. Philad.

14(5): 225, no. 10, redescribed *Parnassius smintheus* from "California" A "neotype" of this misidentification was designated by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 6; this is the holotype of *sternitzkyi*.

b. ***Parnassius smintheus olympianna*** Burdick, 1941

Can. Entomol. 73(7): 117-118, figs. ♂ D, ♀ D.

Original Combination: *Parnassius smintheus olympianna*

Type Locality: "Hurricane Ridge, Olympic Range, Clallam Co., Washington"

Types: Holotype (#5191) in CNC.

Species-genus gender conformation is *olympiannus*.

= *guppyi* Wyatt, 1969

Z. wien. entomol. Ges. 54[80](9-12): 132-133, pl. 15, figs. 1 ♂ D (holotype), 2 ♀ D, 3 ♂ D, 4 ♀ D.

Original Combination: *Parnassius phoebus guppyi*

Type Locality: "Mt. Arrowsmith, Vancouver-Insel, Britisch Kolumbien, Kanada, 1500 m"

Types: Holotype in LNKD.

Nomina collectiva were proposed for this taxon by Eisner (1957), Zoöl. Meded. 35(8): 96-97.

c. ***Parnassius smintheus yukonensis*** Eisner, 1969

Zoöl. Meded. 43(14): 175; figured by Eisner (1976), Zool. Verh. (146): pl. 2, fig. 9 ♂ D.

Original Combination: *Parnassius phoebus yukonensis*

Type Locality: "5 miles s.w. Haines Junction, Yukon" [Yukon Territory]

Types: Holotype in RMNH.

- d. **Parnassius smintheus smintheus** E. Doubleday, 1847
In: Gen. diurn. Lepid. (1)(3): 26; 27, no. 8, pl. 4*, fig. 4 ♂ D.
Original Combination: *Parnassius Smintheus*
Type Locality: “Rocky Mountains”; defined as “vicinity of Rock Lake, [near Jasper] Alberta (53°27'N, 118.°16'W)” by J. Shepard (1984), Quaest. Entomol. 20(1): 40-41.
Types: Lectotype in BMNH, designated by J. Shepard (1984), Quaest. Entomol. 20(1): 41.
Nomina collectiva were proposed for this taxon by Eisner (1955), Zoöl. Meded. 33(17): 150, (1957), Zoöl. Meded. 35(8): 96, and (1966), Zool. Verh. (81): 25, no. 273.
 = *nanus* Neumoegen, 1890
 Entomol. Am. 6(4): 61-62.
Original Combination: *Parnassius smintheus* var. *nanus*
Type Locality: “near Fort Calgary [*sic!*]...at Spence's Bridge, both places being in British Columbia” [Fort Calgary is in Alberta]
Types: Syntypes in USNM; two figured by Skinner (1916), Entomol. News 27(5): pl. 12, figs. 4 ♀ D (‘Ft. Calgary’), 5 ♂ D (‘British Columbia’).
 McDunnough (1936), Can. Entomol. 68(10): 223, discussed the Spence’s Bridge locality. Upon any future lectotype designation, the position of this taxon in the synonymy of *P. smintheus* may require revision.
 = *manitobaensis* Bryk & Eisner, 1935
 Parnassiana 3(4/5): 55.
Original Combination: [*Parnassius phoebus*] *manitobaensis*
Type Locality: “Manitoba, End-Mountains”; corrected to “End Mountain, Alta.” by McDunnough (1936), Can. Entomol. 68(2): 43; further defined as “End Mountain, near Exshaw, Alberta” by Eisner (1957), Zoöl. Meded. 35(8): 96. [Exshaw]
Types: Holotype in ZMHB.
 = ‡“nigerrima” Verity, [1907]
 Rhop. palae. (7/8): pl. 16, fig. 23 ♀ D (“holotype”) [28 Feb 1907]; (11-12): 108 [31 Oct 1907]; (30-36): ind. syst.: xx [31 Oct 1911].
Original Combination: *Parnassius delius* var. *smintheus* forme *hermodur* ab. *nigerrima*
Type Locality: “Montagnes Rocheuses de la Colombie Britannique” implied from the legend to plate 16.
Types: “Holotype” in ZMKU.
 Date of publication is that of plate 16; original combination is from page 108.
 = ‡“minor” Verity, [1907]
 Rhop. palae. (7/8): pl. 16, fig. 21 ♂ D (“holotype”) [28 Feb 1907]; (30-36): ind. syst.: xx [31 Oct 1911].
Original Combination: *P[arnassius]. delius* var. *smintheus* forme *minor*

Type Locality: "Montagnes Rocheuses de la Colombie Britannique" implied from the legend to plate 26.

Types: "Holotype" in ZMKU.

Date of publication is that of plate 16; original combination is from the legend to plate 16.

= ‡"minusculus" Bryk, 1912

Soc. Entomol. 27(12): 58, fig. 4 ♂ D&V ("holotype").

Original

Combination: *Parnassius v. smintheus* ab. *minusculus*

Type Locality: "Colorado" apparently in error.

Types: "Holotype" in RMNH.

Original combination given on figure.

= ‡"ernestinae" Bryk & Eisner, 1935

Parnassiana 3(4/5): 51.

Original Combination: *Parnassius phoebus smintheus* form *ernestinae*

Type Locality: "Ptarmigan-Paß 135° 20' 50° 20" [Alberta]

Types: "Holotype" in RMNH.

= ‡"verity" Ehrmann, 1918

Lepidoptera 2(4): 30.

Original Combination: *Parnassius verity*

Proposed to replace *minor* Verity, [1907], but unavailable names cannot be replaced (Code Article 1.3.4).

‡"rocky" Grum-Grshimaïlo, 1890

In: Romanov, Mém. Lépid. 4: 149 (note 9).

Original Combination: [*Parnassius*

Smintheus var.] *Rocky*

Proposed without a description or indication; a *nomen nudum*.

e. *Parnassius smintheus magnus* W. G. Wright, 1905

Butterflies W. Coast: 47, no. 13; 80-81, no. 13, pl. 2, figs. 13 ♂ D (lectotype), 13b ♀ D.

Original Combination: [*Parnassius*

Smintheus var.] *Magnus*; *Parnassius Magnus* n. v.

Type Locality: "British Columbia"; "Enderby, B. C."

Types: Lectotype (#4279) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 5.

Nomina collectiva were proposed for this taxon by Eisner (1955), Zoöl. Meded. 33(17): 152, and (1957), Zoöl. Meded. 35(8): 97-98.

= *xanthus* Ehrmann, 1918

Lepidoptera 2(3): 21-22.

Original

Combination: *Par[nassius]. Smintheus* var. *xanthus*

Type Locality: "Moron [sic!], Idaho" [Moscow, Latah County, Idaho]

Types: Syntypes in CMNH.

Nomina collectiva were proposed for this taxon by Eisner (1955), Zoöl. Meded. 33(17): 152, and (1957), Zoöl. Meded. 35(8): 98-99.

= *idahoensis* Bryk & Eisner, 1931

Parnassiana 1(5): 5-6, fig. 4 ♂ D&V, 5 ♀ D&V; figured by Bryk (1935), Tierreich 65: figs. 231, ♂ D&V (holotype), 231a ♀ D&V.

Original Combination: *P[arnassius] phoebus idahoensis*

Type Locality: "Wallace, Idaho" [Shoshone County]

Types: Holotype in RMNH.

= *montanula* Bryk & Eisner, 1935

Parnassiana 3(4/5): 55; figured by Eisner (1957), Zoöl. Meded. 35(8): pl. 4, figs. 5 ♀ D (holotype), 6 ♂ D, 7 ♀ D, 8 ♂ D.

Original Combination: [*Parnassius phoebus*] *montanula*

Type Locality: "Turah, Montana" [Missoula County]

Types: Holotype in RMNH.

= ‡"mendica" Stichel, 1907

In: Wytsman, Gen. Ins. 58: 20, no 9ha (nota 1); cited Neumoegen (1890), Entomol. Am. 6(4): 61, and W. G. Wright (1905), Butterflies W. Coast: 79.

Original Combination: *P[arnassius]. phoebus smintheus* forma *mendica*

Type Locality: "Montana, Brit. Columbia, Colorado"

Types: "Types" should be in ZMHB.

Upon any future lectotype designation, the position of this taxon in the synonymy of *P. smintheus* may require revision.

f. **Parnassius smintheus maximus** Bryk & Eisner, 1937

Parnassiana 5(1-3): 7; cited *Parnassius phoebus sayii* (sensu Bryk and Eisner (1935), Parnassiana 3(4/5): 54); figured by Eisner (1957), Zoöl. Meded. 35(8): pl. 4, figs. 1 ♀ D (holotype), 2 ♂ D, 3 ♀ D, 4 ♂ D.

Original Combination: *Parnassius smintheus maximus*

Type Locality: "Judith Mts., Montana, U.S.A." [Fergus County]

Types: Holotype in RMNH.

= ‡"pseudocorybas" Verity, [1909]

Rhop. palae. (11/12): 107 [31 Oct 1907]; (24/25): pl. 24, figs. 12 ♂ D, 13 ♀ D [31 Dec 1909]; (30-36): ind. syst.: xx [31 Oct 1911].

Original

Combination: *P[arnassius]. delius* var. *apricatus* forme *pseudocorybas*

Type Locality: "Montana" implied from the text, "Montana, Montagnes Rocheuses" from the legend to plate 24.

Types: Location of "types" not known (possibly in MNHP).

Date of publication and original combination determined from the legend to plate 24.

g. **Parnassius smintheus sayii** W. H. Edwards, 1863

Proc. Entomol. Soc. Philad. 2(2): 78, no. 1; figured by W. H. Edwards (1872), Butterflies N. Am. [1](10): pl. Parnassius 2, figs. 2 ♀ D&V.

Original Combination: *Parnassius Sayii*

Type Locality: "Pikes Peak"; corrected to "gold region west of Denver" by F. Brown (1975), Trans. Am.

Entomol. Soc. 101(1): 6; neotype from "Running Creek

Field Sta., 6950', Elbert Co., Colo., T9S R65W, SW ¼ 25" [Colorado]

Types: Neotype in CMNH, designated by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 9, fig. 2 ♀ D&V.

Nomina collectiva were proposed for this taxon and its synonyms by Bryk and Eisner (1935), Parnassiana 3(4/5): 55, Eisner (1955), Zoöl. Meded. 33(17): 151, and (1957), Zoöl. Meded. 35(8): 98, 100, 102, 103, 104.

= *hermodur* Hy. Edwards, 1881

Papilio 1(1): 4.

Original Combination: *Parnassius Hermodur*

Type Locality: "Southern Colorado"

Types: Holotype in AMNH; figured by Skinner (1916), Entomol. News 27(5): pl. 12, fig. 8 ♀ D.

Scott (1992), Papilio (n.s.) 6: 6-7, treated this as a subspecies-level taxon, a position which would require a thorough reevaluation of the synonymy of *P. s. sayi*.

= *polus* Ehrmann, 1917

Lepidopterist 1(7): 54-55.

Original Combination: *Parnassius polus*

Type Locality: "Ashcroft, Pitkin [sic] County, Colorado" [Pitkin County]

Types: Syntypes in CMNH.

= *montanus* Ehrmann, 1918

Lepidoptera 2(4): 29-30.

Original

Combination: *Parn[assius]. smintheus* v. *montanus*

Type Locality: "Bullion Peak, Colorado" [Park County]

Types: Syntypes in CMNH.

= *utahensis* Rothschild, 1918

Novit. Zool. 25(1): 233.

Original Combination: *Parnassius phoebus utahensis*

Type Locality: "Park City, Utah" [Summit County]

Types: Syntype in BMNH.

= *catullius* Fruhstorfer, 1923

Soc. Entomol. 38(2): 5.

Original Combination: *Parnassius delius catullius*

Type Locality: "Colorado, Pikes Peak...ca. 12-13 500 fuß" [El Paso-Teller counties]

Types: Syntypes said to be in Fruhstorfer collection, but may be in SMNS (Seitz collection).

= *aristion* Fruhstorfer, 1923

Soc. Entomol. 38(2): 5.

Original Combination: *P[arnassius]. delius aristion*

Type Locality: "Colorado"

Types: Holotype said to be in ZSMC, but may be in SMNS (Seitz collection).

= *sordellus* Fruhstorfer, 1923

Soc. Entomol. 38(2): 5.

Original Combination: *P[arnassius]. delius sordellus*

Type Locality: "Nordamerika--näherer Fundort unbekannt"

Types: Syntypes possibly in ZSMC.

- = *hollandi* Bryk & Eisner, 1935
Parnassiana 3(4/5): 53; figured by Eisner (1955),
Zoöl. Meded. 33(17): pl. 23, figs. 1 ♂ D, 2 ♀ D, 3 ♂
D, 4 ♀ D.
Original Combination: [*Parnassius*
phoebus] *hollandi*
Type Locality: "La Sal Mts., Turpus Valley,
Californien [*sic!*]" [Grand-Wayne counties, Utah]
Types: Holotype in RMNH.
ZMHB was originally noted as the repository of the
type, but Eisner (1966), Zool. Verh. (81): 24, claimed
to have deposited the holotype and allotype in
RMNH.
- = *dakotaensis* Bryk & Eisner, 1935
Parnassiana 3(4/5): 55; figured by Eisner (1966),
Zool. Verh. (81): pl. 22, figs. 4 ♂ D (holotype), 5 ♀ D.
Original Combination: [*Parnassius*
phoebus] *dakotaensis*
Type Locality: "Black Hills, Mt. Roosevelt, Dakota
merid." [Lawrence-Pennington counties, South
Dakota]
Types: Holotype noted to be in RMNH, but "syntype"
series apparently split between that institution and
ZMHB.
- = *rotgeri* O. Bang-Haas, 1938
Parnassiana 6(3/4): 20, pl. 1, figs. 6 ♂ D, 9 ♀ D.
Original Combination: *P[arnassius]. phoebus*
rotgeri
Type Locality: "Colorado, westl. von Denver, Evans
mont., Clear Creek, 3800 m" [Mount Evans, Clear
Creek County, Colorado]
Types: Syntypes probably in ZMHB.
- = *rubina* Wyatt, 1961
Z. wien. entomol. Ges. 46[72](9): 145-146, pl. 11,
figs. 1 ♂ D (holotype), 2 ♀ D.
Original Combination: *Parnassius phoebus rubina*
Type Locality: "Liberty Peak, 3,120 m, Ruby
Gebirge, südlich von Elko, Nevada"; redefined as
"above Liberty Lake, Ruby Mountains, Elko County,
Nevada" by Austin (1998), Syst. W. N. Am.
Butterflies (50): 630.
Types: Holotype in LNKD.
- = ‡"leonhardi" Bryk, 1912
Soc. Entomol. 27(12): 57, fig. 1 ♂ D&V
("holotype").
Original
Combination: *Parnassius v. smintheus* ab. *Leo*
nhardi
Type Locality: "Colorado"
Types: "Holotype" should be in MTD; figured by
Bryk (1921), Entomol. Tidskr. 42(2): 114, fig. 3 ♂
V, 4 ♂ D.
Original combination as given on figure.
- = ‡"mariae" Bryk, 1912
Soc. Entomol. 27(12): 57-58, fig. 3 ♂ D&V
("holotype").
Original
Combination: *Parnassius v. smintheus* ab. *Mari*
ae

- Type Locality:** "Colorado"
Types: "Holotype" should be in MTD (O. Bang-Haas collection).
 = ‡"quincunx" Bryk, 1915
 Arch. Naturgesch. (A)80(7): pl. 9, fig. 67 ♂
 ("cotype"); (9): 140, text.
Original Combination: *Parnassius smintheus* ab. *quincunx*
Type Locality: Not stated; suggested to be "Colorado, U.S.A." by Eisner (1966), Zool. Verh. (81): 25.
Types: "Cotype" in RMNH; figured by Eisner (1966), Zool. Verh. (81): pl. 22, fig. 6 ♂ D.
 = ‡"fermata" Bryk, 1921
 Entomol. Tidskr. 42(2): 112-114, figs. 1 ♂ D ("holotype").
Original Combination: *Parnassius smintheus* ab. *fermata*
Type Locality: "Denver Colorado Rocky mountains"
Types: "Holotype" in RMNH; figured by Eisner (1966), Zool. Verh. (81): pl. 22, fig. 6 ♂ D.
 = ‡"melanophorus" Bryk, 1921
 Entomol. Tidskr. 42(2): 114, fig. 2 ♂ D ("holotype").
Original Combination: [*Parnassius smintheus*] ab. *melanophorus*
Type Locality: "Denver Colorado Rocky mountains"
Types: "Holotype" in RMNH.
 = ‡"reducta" O. Bang-Haas, 1938
 Parnassiana 6(3/4): 20.
Original Combination: [*Parnassius phoebus rotgeri*] f[orm]. *reducta*
Type Locality: "Colorado, westl. von Denver, Evans mont., Clear Creek, 3800 m" [Mount Evans, Clear Creek County, Colorado]
Types: "Holotype" should be in ZMHB.
- h. ***Parnassius smintheus pseudorotgeri*** Eisner, 1966
 Zoöl. Meded. 41(8): 144.
Original Combination: *Parnassius phoebus pseudorotgeri*
Type Locality: "Elwood-Pass, Rio Grande Co., Colorado, U.S.A."
Types: Holotype in RMNH.
 Eisner (1964), Zoöl. Meded. 40(16): 135-136, credited this name to F. Chermock; a *nomen nudum*.
 Subsequently, Eisner (1966), adopted the name and described it based on his own specimens.

Subfamily **Papilioninae** Latreille, [1802]

Tribe **Troidini** Talbot, 1939

Fauna Brit. Ind., Butterflies 1 (ed. 2): 60 (key), 61. Type-genus: *Troides* Hübner, [1819], Verz. bekannt. Schmett. (6): 88.

Subtribe **Troidina** Talbot, 1939



Genus **Parides** Hübner, [1819]

Verz. bekannt. Schmett. (6): 87. Type-species: *Princeps echelus* Hübner, [1815], Samml. exot. Schmett. 1: pl. [126], figs. 1, 2 (= *Princeps echemon* Hübner, [1813], Samml. exot. Schmett. 1: pl. [121], figs. 3, 4; synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 241, no. 811.

Subgenus **Parides** Hübner, [1819]

- = *Hectorides* Hübner, 1821
Index. exot. Lepid.: [1], [2]. Type-species: *Papilio agavus* Drury, 1782, Ill. Nat. Hist. 3: 11, index, pl. 9, fig. 4, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 184, no. 502.
- = *Endopogon* Lacordaire, 1833
Annls. Soc. Entomol. Fr. [1]2: 384. Type-species: *Papilio sesostris* Cramer, 1779, Uitl. Kapellen 3(18): 34, pl. 211, figs. F, G; (24): 176, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 162, no. 377.
- = *Ascanides* Geyer, 1837
In: Hübner, Zutr. Samml. exot. Schmett. 5: 32. Type-species: *Papilio triopas* Godart, 1819, Ency. méth. 9(Ins.)(1): (14), 33, no. 23 (= *Parides chabrias ygdrasilla* Hemming (1935), Entomol. 68(2)[861]: 41; homonym), by monotypy.
- = *Blakea* Grote, 1876
Trans. Am. Entomol. Soc. 5(2): 118. Type-species: *Papilio gundlachianus* C. Felder & R. Felder, 1864, Verh. zool.-bot. Ges. Wien 14: 294, no. 75, by original designation.
‡"Mineroides" Bryk, 1930
Lepid. Cat. 37: 63. This name was published in synonymy without description or indication; a *nomen nudum*.

- *294. **Parides eurimedes** (Stoll, 1782)
Uitl. Kapellen 4(33): 199, pl. 386, pl. 386, figs. E ♂ D, F ♂ V ; (34): 249 (index).
Original Combination: *Pap[ilio]. Eques Troj[anus]. Eurimedes*
Type Locality: "Berbices"
Types: Syntype (#665199) in BMNH; figured by Chainey (2005), Zool. J. Linn. Soc. 145(3): fig. 11 ♂ D.
= ‡*arcas* (Stoll, 1781)
Uitl. Kapellen 4(32): 174, pl. 378, fig. C ♀ D&V; (34): 247 (index).
Original Combination: *Pap[ilio]. Eques Trojanus Arcas*
Type Locality: "Brasilien" "Brazil"
Types: Type(s) maybe in BMNH or lost.
Preoccupied by *Papilio arcas* Drury, 1773, Ill. Nat. Hist. 1: 38, pl. 19, figs. 5, 6; 2: (index).
- a. **Parides eurimedes mylotes** (H. Bates, 1861)
Trans. Entomol. Soc. Lond. (2)5(8): 346 (nota), 360; cited *Papilio mylotes* G. Gray, 1856, List Lepid. Ins. Brit. Mus.: 64, no. 258.
Original Combination: *P[apilio]. Mylotes* and [*Papilio Eurimedes*] Local var. *Mylotes*
Type Locality: "Nicaragua"
Types: Syntypes in BMNH.
First mentioned by G. Gray (1856), List Lepid. Ins. Brit. Mus.: 64, no. 258, without a description or indication; a *nomen nudum*.

- = *caleli* (Reakirt, 1863)
Proc. Entomol. Soc. Philad. 2(2): 138-139, no. 8.
Original Combination: *P[apilio]. Caleli*
Type Locality: "Guatemala" "near the Copán river"
Types: Syntype in FMNH; figured by Tyler *et al.* (1994), Swallowtail Butterflies Am.: pl. 59, fig. H ♂ D.
- = *tonila* (Reakirt, 1863)
Proc. Entomol. Soc. Philad. 2(2): 140, no. 10.
Original Combination: *P[apilio]. Tonila*
Type Locality: "Guatemala"
Types: Holotype in FMNH; figured by Tyler *et al.* (1994), Swallowtail Butterflies Am.: pl. 59, fig. I ♀ D.
- = *aristomenes* (C. Felder & R. Felder, [1865])
Reise Novara (1): 38, no. 27, pl. 7, fig. a ♀ D.
Original Combination: *Papilio Aristomenes*
Type Locality: "Mexico"
Types: Syntypes probably in BMNH.
This taxon was listed without a description or indication by C. Felder and R. Felder (1864), Verh. zool.-bot Ges. Wien 14: 286, no. 108; a *nomen nudum*.
‡"docimus" (G. Gray, 1856)
List Lepid. Ins. Brit. Mus.: 64, no. 259.
Original Combination: *Papilio docimus*
Published without a description or indication; a *nomen nudum*.
- 295. **Parides alopis** (Godman & Salvin, 1890)
Biol. centr.-amer., Lepid. Rhop. 2(87): 197-198, no. 12; 3(87): pl. 65, figs. 10 ♀ D, 11 ♀ V; cited *Papilio alopis* G. Gray, 1856, List Lepid. Ins. Brit. Mus.: 58, no. 231.
Original Combination: *Papilio alopis*
Type Locality: "Mexico, Los Remedios in Chihuahua...Ciudad in Durango"
Types: Holotype in BMNH.
This name was mentioned by G. Gray (1856), List Lepid. Ins. Brit. Mus.: 58, no. 231, and Weidemeyer (1863), Proc. Entomol. Soc. Philad. 2(2): 146, each time without a description or indication; *nomina nuda*.
= *lopiusa* (Schaus, 1911)
Entomol. News 22(10): 439.
Original Combination: *Papilio lopiusa*
Type Locality: "Guadalajara, Mexico" [Jalisco]
Types: Holotype in USNM; figured by Tyler *et al.* (1994), Swallowtail Butterflies Am.: pl. 55, fig. M ♂ V.
This may be a hybrid taxon, as Schaus suggested in the original description.
= ‡"tepoztecatl" R. de la Maza, 1976
Revta. Soc. Méx. Lepid. 2(1): 5, 7, figs. 3 ♂ D, 4 ♂ V ("holotype").
Original Combination: *Parides alopis* ab. *tepoztecatl*
Type Locality: "pueblo Tepoztlán, en el Estado de Morelos" [Mexico]
Types: "Holotype" in de la Maza collection.

Subtribe **Battina** Munroe & Ehrlich, 1960

J. Lepid. Soc. 14(3): 171, defined on 170 (as "Battiti"). Type-genus: *Battus* Scopoli, 1771, Intro. Hist. Nat.: 433.

Genus *Battus* Scopoli, 1777

Intro. Hist. Nat.: 433, no. 173. Type-species: *Papilio polydamas* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 460, no. 11, by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 80.

- = *Laertias* Hübner, [1819]
Verz. bekannt. Schmett. (6): 84. Type-species: *Papilio philenor* Linnaeus, 1771, Mant. Plant. (2nd ed.): 535, by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 64.
- = *†lthobalus* Hübner, [1819]
Verz. bekannt. Schmett. (6): 88. Type-species: *Papilio polydamas* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 460, no. 11, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 198, no. 579. A junior objective synonym of *Battus* Scopoli, 1777.
- = *Battuosa* Möhn, 1999
In: Bauer and Frankenbach, Schmetterlinge Erde. 5: 6. Type-species: *Papilio belus* Cramer, 1777, Utitl. Kapellen 2(10): 23, pl. 112, figs. A, B; (16): 148 (index), by original designation.

296. *Battus philenor* (Linnaeus, 1771)

a. *Battus philenor philenor* (Linnaeus, 1771)

Mant. Plant. (2nd ed.): 535.

Original Combination: *Papilio*

E[ques]. T[rojanus]. Philenor

Type Locality: "America"

Types: Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 363, fig. 14 ♀ D.

- = *astinous* (Drury, 1773)
Ill. Nat. Hist. 1: 21, pl. 11, figs. 1 ♂ D, 4 ♂ V (1770);
2: index (1773, name given).

Original

Combination: *Pap[ilio]. Equ[es]. Tro[janus] Astinous*

Type Locality: "New York, Maryland and Virginia"

Types: Types probably lost.

- = *nezahualcoyotl* (Strecker, 1885)

Proc. Acad. Nat. Sci. Philad. 37(7/8): 174.

Original Combination: *Papilio Nezahualcoyotl*

Type Locality: "New Mexico, close to the Mexican border"

Types: Holotype in FMNH.

The holotype phenotypically represents what is recognized as *Battus philenor acauda* (Oberthür, 1879). This may be a case of individual variation or mislabeling.

- = *†serpentariae* (Fabricius, 1938)

In: Bryk, Syst. Glossat.: 23-24, no. 20;

cited *Papilio philenor* Linnaeus, 1771, Mant.

Plant. (2nd ed.): 535, and J. E. Smith (1797), in: Smith & Abbot, Ins. Georgia 1: pl. 3.

Original

Combination: *P[apilio]. T[rojanus]. Serpentariae*

Proposed as a replacement name for *Papilio philenor* based on the name of a foodplant in

- Smith and Abbot; a junior objective synonym of *philenor*.
- = ‡"obsoleta" (Ehrmann, 1900)
Can. Entomol. 32(11): 348.
Original Combination: *Papilio philenor*,
Var. *obsoleta* ♂, nov. var.
Type Locality: "S. W. Penn'a." [Pennsylvania]
Types: "Holotype" in CMNH; figured by W. Holland (1927), Ann. Carnegie Mus. 17(2): pl. 25, fig. 9 ♂ D.
- = ‡"wasmuthii" (A. C. Weeks, 1901)
J. N. Y. Entomol. Soc. 9(2): 82-83, pl. 6 ♂ D&V.
Original Combination: *Papilio philenor* aberr. *Wasmuthii*
Type Locality: "in front of his residence" [Brooklyn, Kings County, New York]
Types: "Holotype" in CMNH.
- b. **Battus philenor hirsuta** (Skinner, 1908)
Entomol. News 19(4): 149.
Original Combination: *Papilio phflenor* [sic!] *hirsuta*
Type Locality: "Plumas County, California, 9,500 feet elevation"
Types: Syntype (#7028) in ANSP; one figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 75, fig. 5 ♀ D.
- = ‡"inghami" (Gunder, 1927)
Entomol. News 38(9): 268, pl. A, figs. E ♀ D, E2 ♀ V ("holotype").
Original Combination: *Papilio philenor* race *hirsuta* tr. fm. *inghami*
Type Locality: "Fairfax, California" [Marin County]
Types: "Holotype" in AMNH.
297. **Battus polydamas** (Linnaeus, 1758)
- a. **Battus polydamas polydamas** (Linnaeus, 1758)
Syst. Nat. (ed. 10) 1: 460, no. 11; cited Merian (1705), Ins. Surinam.: pl. 31, but that figure represents *Papilio androgeus*.
Original Combination: *P[apilio]. E[ques Trojanus]. Polydamas*
Type Locality: "Americas"; suggested to be "Surinam" by F. Brown (1968), J. Lepid. Soc. 22(2): 82.
Types: Lectotype in UZIU, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 369.
- = ‡*anguicidas* (Fabricius, 1938)
In: Bryk, Syst. Glossat.: 34, no. 55; cited *Papilio polydamas* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 460, no. 11.
Original Combination: *P[apilio]. T[rojanus]. Anguicidas*
Proposed as a replacement name for *Papilio polydamas*, based on the name of a foodplant; a junior objective synonym of *polydamas*.
- b. **Battus polydamas lucayus** (Rothschild & Jordan, 1906)
Novit. Zool. 13(3): 521-522, no. 51g.
Original Combination: *P[apilio]. polydamas lucayus*
Type Locality: "Bahamas: Nassau and New Providence"; lectotype from "Bahamas Nassau."

Types: Lectotype in BMNH, designated by Racheli and Pariset (1992), *Fragm. Entomol.* 23(suppl.): 67. Racheli and Pariset (1992), *Fragm. Entomol.* 23(suppl.): 64-67, treated this taxon as a synonym of *B. p. polydamas*; this arrangement follows L. Miller and F. Brown (1981), *Mem. Lepid. Soc.* (2): 60, and Tyler *et al.* (1994), *Swallowtail Butterflies Am.*: 28.

Tribe **Leptocircini** W. F. Kirby, 1896

In: Allen, *Nat. Libr., Lepid.* 2: xviii, 307-308 (as "Leptocircinae, Leptocirciti"). Type-genus: *Leptocircus* Swainson, 1833, *Zool. Illustr.* (2)3(23): pl. 106, unnumbered text. The application of this family-group name is discussed by Smith and Vane-Wright (2001), *Bull. Brit. Mus. (Nat. Hist.) Entomol.* 70(2): 506-508.

Genus **Eurytides** Hübner, [1821]

Samml. exot. Schmett. 2: pl. [92]. Type-species: *Eurytides iphitas* Hübner, [1821], *Samml. exot. Schmett.* 2: pl. [92], figs. 3, 4, by monotypy.

= *Bellerographium* Möhn, 2002

In: Bauer and Frankenbach, *Butterflies World*. Part. 14: 5. Type-species: *Papilio bellerophon* Dalman, 1823, *Analecta Entomol.*: 37, no. 1, by original designation.

Subgenus **Neographium** Möhn, 2002

In: Bauer and Frankenbach, *Butterflies World*. Part. 14: 2. Type-species: *Papilio philolaus* Boisduval, 1836, *Spec. gén. Lépid.* 1: 256, no. 80, by original designation. The use of the name *Protographium* Munroe (1961), *Can. Entomol.* 93(suppl. 17): 16, 18, 37, 41, 51, for this subgenus was supported by Tyler *et al.* (1994), *Swallowtail Butterflies Am.*: 30. de Jong (2003), *Ins. Syst.* 17(1): 147-148, determined that adding the type species of *Protographium* (*Papilio leosthenes* E. Doubleday, 1846, *Ann. Mag. Nat. Hist.* [1]18(121): 372) to the New World assemblage renders the group paraphyletic.

= *Asiographium* Möhn, 2002

In: Bauer and Frankenbach, *Butterflies World*. Part. 14: 4. Type-species: *Papilio asius* Fabricius, 1781, *Spec. Ins.* 2: 5, no. 17, by original designation.

= *Eurygraphium* Möhn, 2002

In: Bauer and Frankenbach, *Butterflies World*. Part. 14: 4. Type-species: *Papilio thyastes* Drury, 1782, *Ill. Nat. Hist.* 3: index, pl. 35, fig. 1, by original designation.

marcellus group K. Brown, 1991
Entomol. Z. 101(21): 399.

298. **Eurytides marcellus** (Cramer, 1777)

Uitl. Kapellen 2(9): 4, pl. 98, figs. F ♂ D, G ♂ V; (16): 149 (index).

Original

Combination: *Pap[ilio]. Equ[es]. Achiv[us]. Marcellus*

Type Locality: "Virginien" "Virginie"

Types: Possible syntype (#665081) in BMNH.

= *†ajax* (Linnaeus, 1758) *in partim*

Syst. Nat. (ed. 10) 1: 462, no. 26; cited Ray (1710), *Hist. Ins.*: 111, no. 2, and Edwards (1743), *Nat. Hist. Birds* 1: pl. 34.

Original Combination: *P[apilio]. E[ques] Achivus] Ajax*

Type Locality: "America boreali"

Types: Type(s) lost.

I.C.Z.N. *Opinion* 286 suppressed this name, and placed it on the *Official Index of Unavailable and*

Rejected Names as name no. 68. The original description of *ajax* applied to several different insects. Linnaeus based his description on figures from earlier authors, and in North America the species figured include *Eurytides marcellus* (Cramer, 1777), *Papilio glaucus* Linnaeus, 1758 and *P. polyxenes asterius* (Stoll, 1782).

- = *telamonides* (C. Felder & R. Felder, 1864)
Verh. zool.-bot. Ges. Wien 14: 303, no. 205; cited *Papilio ajax* (*sensu* Palisot de Beauvois (1805), Ins. Afr. Amér.: 71, pl. 2, fig. 2).

Original Combination: [*Papilio*] *Telamonides*

Type Locality: "America sept. (Unio austral.)"

Types: Syntypes in NMW and BMNH.

The reference to Palisot de Beauvois qualified as an indication and made this name available (Code Articles 12.1 and 12.3).

- = ‡"walshii" (W. H. Edwards, [1872])
Butterflies N. Am. [1](9): [1-2], pl. Papilio 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D.

Original Combination: [*Papilio*] *Ajax* var. *Walshii*

Type Locality: Not stated.

Types: No "types" designated.

The text clearly indicates that this taxon was described as an individual variant.

- = ‡"abbottii" (W. H. Edwards, [1872])
Butterflies N. Am. [1](9): [2], pl. Papilio 1, fig. 6 ♂ D.

Original Combination: [*Papilio Ajax*] var. *Abbotii*

Type Locality: Not stated.

Types: No type(s) designated.

The text clearly indicates that this taxon was described as an individual variant.

- = ‡"floridensis" (W. Holland, 1898)
Butterfly Book: 307, pl. 44, fig. 2 ♂ D.

Original Combination: [*Papilio ajax* winter form] *floridensis*

Type Locality: "St. Johns River, in Florida"

Types: "Syntypes" in CMNH.

- = ‡"lecontei" (Rothschild & Jordan, 1906)
Novit. Zool.. 13(3): 690, no. 138d'; cited *Papilio marcellus* (*sensu* Boisduval and Le Conte (1829), Hist. Lepid. Amér. sept. (1): pl. 2, figs. 1 ♂ D, 2 ♂ V, 3, larva, 4 pupa).

Original Combination: *P[apilio]. marcellus* f. aest. *Le Contei*

Type Locality: "Nashville" [Davidson County, Tennessee]

Types: "Syntypes" in BMNH.

- = ‡"tockhorni" (Schultz, 1908)
Entomol. Z. 22(23): 92.

Original Combination: *Papilio ajax* ab. (nov.) *tockhorni*

Type Locality: Not stated.

Types: Location of "holotype" not known.

- = ‡"broweri" (Gunder, 1927)
Entomol. News 38(9): 269.

Original Combination: *Papilio marcellus* tr. fm. *broweri*

- Type Locality:** "Willard, Missouri" [Greene County]
Types: "Holotype" in USNM.
- = ‡"pricei" (W. D. Field, 1936)
 J. Entomol. & Zool. 28(2): 18-19.
Original Combination: *Iphiclides marcellus* gen. aest. *Le Contei* tr. f. *pricei*
Type Locality: "Greenwood Co., Kansas"
Types: "Holotype" probably in USNM.
- = ‡"nigrosuffusa" (W. D. Field, 1936)
 J. Entomol. & Zool. 28(2): 19.
Original Combination: *Iphiclides marcellus* gen. aest. *Le Contei* tr. f. *nigrosuffusa*
Type Locality: "Lawrence, Kansas" [Douglas County]
Types: "Holotype" probably in USNM.
- = ‡"annonae" (Fabricius, 1938)
In: Bryk, Syst. Glossat.: 49, no. 108; cited *Papilio marcellus* Cramer, 1777, Uitl. Kapellen 2(9): 4, pl. 98, figs. F, G; (16): 149 (index), and *Papilio ajax* (*sensu* J. E. Smith (1797), *in:* Smith & Abbot, Ins. Georgia 1: pl. 4).
Original Combination: *P[apilio]. A[chivus]. Annonae*
 Proposed as a replacement name for *ajax* and *marcellus* based on an erroneous foodplant name in Smith and Abbot; a junior objective synonym of *Papilio marcellus*.
 ‡"cubensis" (Boullet & Le Cerf, 1912)
 Bull. Mus. Natn. Hist. Nat., Paris Suppl. [1]18(2): 41.
Original Combination: [*Papilio*] *marcellus-cubensis*
 Proposed without a description or indication; a *nomen nudum*.
299. **Eurytides philolaus** (Boisduval, 1836)
 a. **Eurytides philolaus philolaus** (Boisduval, 1836)
 Spec. gén. Lépid. 1: 256, no. 80.
Original Combination: *Papilio Philolaus*
Type Locality: "Mexique"
Types: Holotype in MNHP.
- = ‡"ajax" (Eimer, 1889)
 Artb. Verwandtsch. Schmett. 1: 212.
Original Combination: *Papilio Philolaus Ajax*
Type Locality: "Mexiko"
Types: Location of "type(s)" not known.
 Preoccupied by *Papilio ajax* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 462, no. 26.
- = ‡"nigrescens" (Eimer, 1889)
 Artb. Verwandtsch. Schmett. 1: 213.
Original Combination: *Papilio Philolaus nigrescens*
Type Locality: "Honduras"
Types: Location of "type(s)" not known.
 Preoccupied by *Papilio nigrescens* Eimer, 1889, Artb. Verwandtsch. Schmett. 1: 88.
- = ‡"niger" (Eimer, 1889)
 Artb. Verwandtsch. Schmett. 1: 214, pl. 4, fig. 1 ♂ D&V ("holotype").
Original Combination: [*Papilio*] *Philolaus niger*
Type Locality: "Honduras"

- Types:** Location of "holotype" not known.

= ‡"felicis" (Fruhstorfer, 1904)
Soc. Entomol. 19(4): 25.
Original Combination: *Papilio philolaus* ab. *felicis*
Type Locality: "Honduras"; syntype from "San Pedro Sula, Honduras."
Types: "Syntype" in BMNH; figured by Tyler *et al.* (1994), Swallowtail Butterflies Am.: pl. 65, fig. 1 ♀ D.

= ‡"vazquezae" Beutelspacher, 1976
Revta. Soc. Méx. Lepid. 2(2): 61, fig. 1B ♂ D.
Original Combination: *Eurytides philolaus* forma *vazquezae*
Type Locality: "Zoquiapan, Pue. (colln. Inst. Biol. UNAM)...Cañon del Novillo, Tamps....Tamán, S.L.P...Fortín, Ver....Mesa de San Diego, Pue....El Salto, S.L.P."
Types: "Syntypes" in UNAM and de la Maza collection.

Genus **Mimoides** K. Brown, 1991

Entomol. Z. 101(20): 375. Type-species: *Papilio ariarathes*, Esper, 1788, Ausl. Schmett. (4): 57, pl. 14, figs. 2 ♂ D, 3 ♂ V, by original designation.

- 300. **Mimoides phaon** (Boisduval, 1836)
 - a. **Mimoides phaon phaon** (Boisduval, 1836)
Hist. nat. Ins., Spec. gén. Lépid. 1: 319-320, no. 160.
Original Combination: *Papilio phaon*
Type Locality: "Mexique...Pérou"
Types: Syntype(s) in BMNH.
Reported for Texas by Reid (2008), News Lepid. Soc. 50(3/4): 75, 87.
 - = *ulopos* (G. Gray, [1853])
Cat. Lepid. Ins. Brit. Mus. 1: 69, no. 312.
Original Combination: *Papilio Ulopos*
Type Locality: "Mexico"
Types: Syntype(s) in BMNH.
 - = *xenarchus* (Hewitson, 1861)
Ill. exot. Butterflies 2(39): [5], pl. Papilio V, fig. 12 ♀ D.
Original Combination: *Papilio Xenarchus*
Type Locality: "Mexico"
Types: Syntype(s) in BMNH.
 - = *eridamus* (Reakirt, 1866)
Proc. Acad. Nat. Sci. Philad. 18(3): 248-249, no. 25.
Original Combination: *Papilio Eridamus*
Type Locality: "Mexico"
Types: Syntype in FMNH.
 - = *metaphaon* (Butler, 1874)
Trans. ent. Soc. Lond. 1874(4): 434.
Original Combination: *Papilio Metaphaon*
Type Locality: "Mexico"
Types: Syntype(s) probably in BMNH.
 - = *immarginatus* (Oberthür, 1879)
Étud. Entomol. 4: 97, under *phaon*, no. 298

Original Combination: [*Papilio phaon*] var.
A. immarginatus

Type Locality: "Mexique"

Types: Holotype probably in BMNH.

- = *pharax* (Godman & Salvin, 1890)
Biol. centr.-amer., Lepid. Rhop. 2(88): 211, no. 36,
(167): 729; 3: pl. 67, fig. 8 ♂ D.

Original Combination: *Papilio pharax*

Type Locality: "British Honduras, Corosal"

Types: Syntype(s) in BMNH.

- = *praxenus* (Ehrmann, 1919)
Lepidoptera (Boston) 3(5): 36.

Original Combination: *Papilio*

ulopus [sic!] *praxenus*

Type Locality: "Honduras"

Types: Holotype in CMNH.

Tribe **Papilionini** Latreille, [1802]

Genus **Papilio** Linnaeus, 1758

Syst. Nat. (ed. 10) 1: 458. Type-species: *Papilio machaon* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 462, no. 27, by designation of Latreille (1810), Consid. gén. Anim. Crust. Arach. Ins.: 350, 440.

I.C.Z.N. *Opinion* 278 placed this name on the *Official List of Generic Names in Zoology* as name no. 703. The generic and subgeneric arrangement follows J. Miller (1987), Bull. Am. Mus. Nat. Hist. 186(4): 365-512.

Subgenus **Papilio** Linnaeus, 1758

- = ‡*Amaryssus* Dalman, 1816
K. svenska VetenskAkad. Handl. 37(1): 60. Type-species: *Papilio machaon* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 462, no. 27, by original designation. A junior objective synonym of *Papilio*.
- = ‡*Aernauta* Berge, 1842
Schmetterlingsbuch: 19, 106-109. Type-species: *Papilio machaon* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 462, no. 27, by designation of Hemming (1934), Entomol. 67(849): 38. A junior objective synonym of *Papilio*.
- = ‡*Achivus* W. F. Kirby, 1896
In: Allen, Nat. Libr., Lepid. 2: 286. Type-species: *Papilio machaon* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 462, no. 27, by original designation. A junior objective synonym of *Papilio*.
- = ‡*Princeps* Hübner, [1806]
Tentamen: [1]. Type-species: *Papilio machaon* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 462, no. 27, by monotypy. The Tentamen was suppressed by I.C.Z.N. *Opinion* 97; *Opinion* 278 placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 83.

*301. **Papilio machaon** Linnaeus, 1758

Syst. Nat. (ed. 10) 1: 462, no. 27; referred to many earlier authors.

Original Combination: *P*[apilio]. *E*[ques *Achivus*] *Machaon*

Type Locality: "Europae"

Types: Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 344.

I.C.Z.N. *Opinion 278* placed this name on the *Official List of Specific Names in Zoology* as name no. 107. Most of the Palaearctic synonymy is not listed. The evidence that *machaon* and *bairdiare* conspecific is compelling to many authors; see Scott (1986), *Butterflies N. Am.*: 164-170, no. 5; Sperling (1987), *Quaest. Entomol.* 23(2): 198-315, (1993), *Mem. Entomol. Soc. Can.* 165: 233-242, and Sperling and Harrison (1994), *Evolution* 48(2): 408-422.

= *reginae* Retzius, 1783

Gen. Spec. Ins.: 30, no. 5; cited de Geer (1771), *Mém. Hist. Ins.* 2: 185, pl. 1, figs. 2, 3, and *Papilio machaon* Linnaeus (1758), *Syst. Nat.* (ed. 10) 1: 462, no. 27.

Original Combination: *P[apilio]. Reginae*

Type Locality: Not stated.

Types: Type(s), if they existed, are probably lost.

= *umbellatarum* Fabricius, 1938

In: Bryk, *Syst. Glossat.*: 46-47, no. 98; cited *Papilio machaon* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1: 462, no. 27.

Original

Combination: *P[apilio]. A[chivus]. Umbellatarum*

Proposed as a replacement name for *machaon* based upon a foodplant; a junior objective synonym of *machaon*.

a. *Papilio machaon alaska* Scudder, 1869

Proc. Boston Soc. Nat. Hist. 12: 407.

Original Combination: *Papilio Alaska*

Type Locality: "most of them at Nulato...others...at a short distance below the Ramparts, and also just above them" "cañons, commencing two hundred miles below Fort Yukon" [Alaska]

Types: Syntype (#2144) in MCZ.

Eitschberger (1993), *Atalanta* (Münnerstadt) 24(1/2): 30, figs. 27, 34-38, 46, treated this as a species-level taxon, with *hudsonianus* and *pikei* as subspecies.

= *joannisi* Verity, [1907]

Rhop. palae. (1): 12 [31 Dec 1908]; (7/8): pl. 10, fig. 16 ♂ D (not fig. 17) [28 Feb 1907]; (30-36): ind. syst.: xiv [31 Oct 1911]

Original

Combination: *P[apilio] machaon* var. *joannisi*

Type Locality: "Alaska" implied from the text, "Nulato, Alaska" from the legend to plate 10.

Types: Syntype in MZS.

Considered available from the date and original combination on the legend to plate 10.

= *petersii* A. Clark, 1932

Proc. U. S. Nat. Mus. 81(2934): 8-9, pl. 4, figs. 1 ♂ D, 2 ♂ V (holotype), pl. 5, fig. 3 ♂ D, pl. 6, fig. 3 ♂ V.

Original Combination: *Papilio machaon petersii*

Type Locality: "Koyukuk River, central Alaska (lat. 67°-69° N., long. 151° W)"

Types: Holotype (#34479) in USNM.

b. *Papilio machaon hudsonianus* A. Clark, 1932

Proc. U. S. Nat. Mus. 81(2934): 6-8, pl. 3, figs. 1 ♀ D, 2 ♀ V (holotype).

Original Combination: *Papilio machaon hudsonianus*

Type Locality: "Kettle Rapids, Nelson River, Manitoba, on the Hudson Bay Railway"

Types: Holotype (#34478) in USNM.

- = *avinoffi* F. Chermock & R. Chermock, 1937
Bull. South. Calif. Acad. Sci. 36(1): 11-12.

Original Combination: *Papilio machaon* race *Avinoffi*

Type Locality: "Whirlpool River, Riding Mts., Manitoba"

Types: Holotype in CMNH.

- = *kahli* F. Chermock & R. Chermock, 1937
Bull. South. Calif. Acad. Sci. 36(1): 12-13.

Original Combination: *Papilio nitra* form *Kahli*

Type Locality: "Riding Mts., Manitoba"

Types: Holotype stated to be in CMNH.

The taxa *avinoffi* and *kahli* apparently derived from hybridization and long term introgression between *P. polyxenes asterius* and *P. machaon hudsonianus*. They are placed under the senior name in this synonymy. For discussion and explanation of the complex relationships between members of the *Papilio machaon* complex, see Sperling (1987), Quaest. Entomol. 23(2): 198-315, (1993), Mem. Entomol. Soc. Can. 165: 233-242, and Sperling and Harrison (1994), Evolution 48(2): 408-422.

‡"kwakwapooshesi" Seyer, 1977
Mitt. Entomol. Ges. Basel (nf)27(4): 113.

Original Combination: *Papilio machaon kwakwapooshesi* (Chermock *in litt.*)

This name was listed without a description or indication; a *nomen nudum*.

‡"prestoni" Seyer, 1977
Mitt. Entomol. Ges. Basel (nf)27(4): 113.

Original Combination: *Papilio machaon prestoni* (Chermock *in litt.*)

This name was listed without a description or indication; a *nomen nudum*.

‡"frechini" Seyer, 1977
Mitt. Entomol. Ges. Basel (nf)27(4): 113.

Original Combination: *Papilio machaon frechini* (Chermock *in litt.*)

This name was listed without a description or indication; a *nomen nudum*.

‡"comstocki" Scott & Troubridge, 1981
Papilio (n.s.) 1: 1.

Original Combination: *Papilio polyxenes kahli* form *comstocki*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

‡"comstocki" Scott, 1986
Butterflies N. Am.: 167, no. 5.

Original Combination: [*Papilio machaon*] *hudsonianus* form *comstocki*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

- c. ***Papilio machaon pikei*** Sperling, 1987
Quaest. Entomol. 23(2): 219-221, pl. 1, figs. e ♂ D&V, f ♀ D&V.

Original Combination: *Papilio machaon pikei*

Type Locality: "Canada, Alberta, Dunvegan (s. Fairview)"

Types: Holotype in CNC.

- d. **Papilio machaon oregonia** W. H. Edwards, 1876
Trans. Am. Entomol. Soc. 5(3/4): 208; figured by W. H. Edwards (1880), Butterflies N. Am. 2(9): pl. Papilio 7, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Papilio*

Hippocrates Var. *Oregonia*

Type Locality: "Columbia River"; defined as "the Dalles, Columbia River" by W. H. Edwards (1880), Butterflies N. Am. 2(9): [29-31]; neotype from "Hepner [sic!], Oregon, some miles upstream." [Heppner, Morrow County]

Types: Neotype (#36915) in AMNH, designated by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 24, fig. ♀ D&V.

Species-genus gender conformation is *oregonius*.

- e. **Papilio machaon dodi** McDunnough, 1939
Can. Entomol. 71(10): 216-217, fig. ♂ D (holotype).

Original Combination: *Papilio machaon* var. *dodi*

Type Locality: "Red Deer River, Alta. (50 miles N. E. of Gleichen)"; defined as "Dorothy, Alberta" by Kondla (1981), Blue Jay 39(3): 144.

Types: Holotype (#4913) in CNC.

- f. **Papilio machaon bairdii** W. H. Edwards, 1866
Proc. Entomol. Soc. Philad. 6(2): 200, no. 1; figured by W. H. Edwards (1880), Butterflies N. Am. 2(9): pl. Papilio 10, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Papilio Bairdii*

Type Locality: "Arizona"; defined as "vicinity of Fort Whipple, near Prescott, Arizona" by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 14. [Yavapai County]

Types: Neotype in CMNH, designated by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 15, fig. 4 ♂ D&V.

= *utahensis* Strecker, [1878]

Lepid. Rhop. Het. (14): 128.

Original Combination: *Papilio*

(*Asterius*) var. *Utahensis*

Type Locality: "Utah"

Types: Syntypes in FMNH.

= *hollandii* W. H. Edwards, 1892

Can. Entomol. 24(3): 50, no. 4.

Original Combination: *Papilio Hollandii*

Type Locality: "West Colorado"; defined as "Glenwood Springs, Garfield County, Colorado" by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 17; lectotype from "Roaring Forks, Colo."

Types: Lectotype in CMNH, designated by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 18, fig. 5 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 40, fig. 3 ♂ D.

= *brucei* W. H. Edwards, 1895

Can. Entomol. 27(9): 239.

Original Combination: *Papilio Brucei*

Type Locality: "Glenwood Springs, Colorado" [Garfield County]

Types: Lectotype in CMNH, designated by F. M. Brown, 1975, Trans. amer ent. Soc. 101(1): 21, fig. 6 ♂ D&V; paralectotype figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 40, fig. 4 ♀ [not ♂] D. This name was mentioned without a description or indication by W. H. Edwards (1893), Can. Entomol. 25(10): 253; a *nomen nudum*.

‡"ampliata" Scott, 1981

Papilio (n.s.) 1: 2.

Original Combination: *Papilio*

bairdii form *ampliata*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

‡"comstocki" Scott, 1981

Papilio (n.s.) 1: 2.

Original Combination: *Papilio*

bairdii form *comstocki*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

302. *Papilio brevicauda* Saunders, 1868

a. *Papilio brevicauda brevicauda* Saunders, 1868

In: Packard, Guide Study Ins.: 245-246 (nota).

Original Combination: *Papilio Brevicauda*

Type Locality: "St. John's, Newfoundland"

[Newfoundland and Labrador]

Types: Holotype in CNC.

= *anticostiensis* Strecker, 1873

Lepid. Rhop. Het. (2): 10-11, pl. 2, fig. 2 ♀ D&V.

Original Combination: *Papilio Anticostiensis*

Type Locality: "Fox Bay, Anticosti Island; Labrador"

[Newfoundland and Labrador]

Types: Syntypes in FMNH.

b. *Papilio brevicauda gaspeensis* McDunnough, 1934

Can. Entomol. 66(4): 84.

Original Combination: [*Papilio brevicauda*] *gaspeensis*

Type Locality: "Mt. Lyall, Gaspé Co., Que." [Quebec]

Types: Holotype (#3735) in CNC.

c. *Papilio brevicauda bretonensis* McDunnough, 1939

Can. Entomol. 71(7): 157, pl. 22 ♂ D (holotype), ♀ D.

Original Combination: [*Papilio brevicauda*]

[race] *bretonensis*

Type Locality: "Baddeck, N. S." [Nova Scotia]

Types: Holotype (#4549) in CNC.

303. *Papilio joanae* J. Heitzman, 1973

J. Res. Lepid. 12(1): 3, 4, 7, figs. 1(A) ♂ D, (B) ♂ V

(holotype); (C) ♀ D, (D) ♀ V.

Original Combination: *Papilio joanae*

Type Locality: "Warsaw, Benton County, Missouri, elevation 800-880 feet, in forest area"

Types: Holotype in AMNH.

As noted by Sperling and Harrison (1994), Evolution 48(2): 408-422, this taxon is closely related to *Papilio machaon*.

***304. *Papilio polyxenes* Fabricius, 1775**

Syst. Entomol.: 444-445, no. 10.

Original

Combination: *P*[*apilio*]. *E*[*ques*]. *T*[*rojanus*]. *Polyxenes*

Type Locality: "America"; further defined as "Americae meridionali insulis" by Fabricius (1781), Spec. Ins. 2: 4, no.

13; defined as "Cuba" by Rothschild and Jordan (1906), Novit. Zool. 13(3): 547.

Types: Type(s) probably lost.

a. *Papilio polyxenes asterius* (Stoll, 1782)

Uitl. Kapellen 4(33): 194-196, pl. 385, figs. C ♂ D, D ♂ V; 4(34): 248 (index).

Original

Combination: *Pap[ilio]. Eq[ues]. Achiv[us]. Asterius*

Type Locality: "Noord-Amerika en wordt in Niewjork, Virginien en Carolina" "l'Amerique Septentrionale, dans la Nouvelle York, en Virginie & dans la Caroline"

Types: Possible syntype in RMNH.

This is one of the species implied in Linnaeus' original description of *Papilio ajax* (see *Eurytides marcellus*), based on Petiver (1709), Gazophylacium: pl. 6, fig. 12.

= *ampliata* Ménétriés, 1857

Enum. corp. anim. (2): 99-100, under no. 60.

Original Combination: [*Papilio Asterias*]

var. *Ampliata*

Type Locality: "l'Amerique septentrionale"; suggested to be "Mexico" by Rothschild and Jordan (1906), Novit. Zool. 13(3): 545.

Types: Type(s) probably in ZIN.

= *calverleyi* Grote, 1864

Proc. Ent. Soc. Philad. 2(4): 441-442, pl. 10.

Original Combination: *Papilio Calverleyi*

Type Locality: "New York State...immediate neighborhood of the village of New Lots, Queen's County, Long Island"

Types: Holotype probably in CMNH; figured by W. Holland (1898), Butterfly Book: pl. 41, fig. 6 ♀ D.

= *asterioides* Reakirt, [1867]

Proc. Acad. Nat. Sci. Philad. 18(4): 331-332, no. 27.

Original Combination: *Papilio asterioides*

Type Locality: "Mexico"

Types: Holotype (#7011) in ANSP.

= *curvifascia* Skinner, 1902

Entomol. News 13(6): 183.

Original Combination: *Papilio*

polyxenes var. *curvifascia*

Type Locality: "Rincon, New Mexico" [Dona Ana County]

Types: Syntype (#7026) in CMNH; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 70, fig. 12 ♂ D.

= *gracehus* Fabricius, 1938

In: Bryk, Syst. Glossat.: 23, no. 18.

Original

Combination: *P[apilio]. T[rojanus]. Gracehus*

Type Locality: "Philadelphia" [Philadelphia County, Pennsylvania]

Types: Location of type not known.

This name is probably a printer's error for *gracchus*.

= *†"viridis"* Cockerell, 1889

Entomol. 22(314): 199.

Original Combination: *Papilio asterias* var. pupae *viridis*

Type Locality: Not stated.

- Types:** No "type" designated (a variety of the pupa).
- = ‡"alunata" Skinner & E. Aaron, 1889
Can. Entomol. 21(7): 127-128.
Original Combination: *P[apilio]. asterias* [sic!], var. ♀ *alunata*
Type Locality: "Philadelphia, Pa." implied from the title of the paper; "syntype" labeled from "Fairmont Park, Phila." [Philadelphia County, Pennsylvania]
Types: "Syntype" (#7012) in ANSP.
- = ‡"mediocauda" Eimer, 1895
Artb. Verwandtsch. Schmett. 2: 118, 138.
Original Combination: *Papilio mediocauda* ♂
Type Locality: "Canada"
Types: Location of type(s) not known.
This taxon was given a binomial combination, but the appended "♂" indicates an infrasubspecific name. It was listed as *Papilio Asterias* (*P[apilio]. mediocanda*) on page 118; an incorrect original spelling. This misspelling occurred in the list of figures given on the plates, and is a printers error judging from the derivation of the name. This taxon might represent *P. brevicauda* or *P. polyxenes asterius*.
- = ‡"semialba" Ehrmann, 1900
Can. Entomol. 32(11): 348.
Original Combination: *Papilio asterias*, Var. *semi-alba* ♂, nov. var.
Type Locality: "S. W. Penn'a." [Pennsylvania]
Types: "Holotype" in CMNH; figured by W. Holland (1927), Ann. Carnegie Mus. 17(2): pl. 25, fig. 1 ♂ D.
- = ‡"masculina" Reiff, 1911
Z. wiss. InsektBiol. 7(7/8): 235.
Original Combination: [*Papilio polyxenes*] ab. *masculina*
Type Locality: Not stated.
Types: "Holotype" in MCZ (ex Bussey Institute).
- = ‡"ehrmanni" Ehrmann, 1925
Bull. Brooklyn Entomol. Soc. 20(2): 84.
Original Combination: *Papilio ehmanni* n. ab. (of *asterius*)
Type Locality: "Hammet Place, Allegheny Co., Pa." [Pittsburgh, Pennsylvania]
Types: "Holotype" in CMNH; figured by W. Holland (1927), Ann. Carnegie Mus. 17(2): pl. 25, fig. 2 ♂ D.
I treat this name as if proposed in the form "*Papilio asterius* ab. *ehmanni*."
- = ‡"gertrudis" Kruck, 1931
Entomol. Rdsch. 48(22): 236, fig. 2 ♂ D ("holotype").
Original Combination: *Pap[ilio]. asterius* ab. *gertrudis* ab. nov.
Type Locality: "Mexiko-Süd, Dep. Oaxaca"
Types: "Holotype" in Kruck collection.

- = ‡"forsythae" Wood, 1937
Entomol. News 48(10): 273, pl. 4, ♂ D
("holotype").
Original Combination: *Papilio ajax forsythae* new aberration
Type Locality: "Florida City, Florida" [Miami-Dade County]
Types: "Holotype" in AMNH.
- = ‡"pseudoamericus" F. Brown, [1943]
Entomol. News 53(10): 291.
Original Combination: [*Papilio ajax* race] *pseudoamericus*
Type Locality: "Troy, Illinois" [Madison County]
Types: "Holotype" in Meiners collection, St. Louis, Missouri.
The text clearly indicates that this taxon was described as an individual variant.
- = ‡"subamplicata" Dufrane, 1946
Bull. Anns. Soc. Entomol. Belg. 82(5/6): 106.
Original Combination: *P[apilio]. polyxenes asterius* f. *subamplicata*
Type Locality: "Temple, Pa. (E. U. A.)" [Berks County, Pennsylvania]
Types: "Holotype" probably in IRSN.
- b. **Papilio polyxenes coloro** W. G. Wright, 1905
Butterflies W. Coast: 86, no. 25, pl. 3, fig. 25 ♂ D (holotype).
Original Combination: [*Papilio Zelicaon* var.] *Coloro*; *Papilio Coloro* n. v.
Type Locality: "Colorado Desert of California" "Colorado Desert of southeastern California"; defined as "Whitewater Hill, Coachella Valley, Colorado Desert, Riverside Co." by Ferris and J. Emmel (1982), Bull. Allyn Mus. (76): 2.
Types: Holotype (#4281) in CAS; figured by Tyler *et al.* (1994), Swallowtail Butterflies Am.: pl. 92, fig. W ♂ D&V.
- = *rudkini* J. A. Comstock, 1935
Bull. South. Calif. Acad. Sci. 34(2): 143-144.
Original Combination: *Papilio bairdii* form *rudkini*
Type Locality: "Ibanpah [sic!] Mts., Calif." [Ivanpah Mountains, San Bernardino County, California]
Types: "Holotype" in LACM.
- = ‡"clarki" F. Chermock & R. Chermock, 1937
Bull. South. Calif. Acad. Sci. 36(1): 8-9.
Original Combination: *Papilio rudkini* form *Clarki*
Type Locality: "Ibanpah [sic!] Mts., Calif." [Ivanpah Mountains, San Bernardino County, California]
Types: "Holotype" in LACM.
- = ‡"comstocki" F. Chermock & R. Chermock, 1937
Bull. South. Calif. Acad. Sci. 36(1): 10.
Original Combination: *Papilio rudkini* form *comstocki*
Type Locality: "Clark Mt., Mojave Desert, Calif." [San Bernardino County]
Types: "Holotype" in LACM.

The text clearly indicates that this taxon was described as an individual variant.

305. **Papilio zelicaon** Lucas, 1852
 Revue Mag. Zool. (2)4(3): 136-138.
Original Combination: *Papilio Zelicaon*
Type Locality: "Californie"; defined as "San Francisco, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (3): 78. [San Francisco County]
Types: Lectotype in MNHP, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (3): 78, figs. 1 ♂ D, 2 ♂ V.
 = *zelicaon* Boisduval, 1852
 Annls. Soc. Entomol. Fr. (2)10(2): 281-2, no. 3.
Original Combination: *Papilio zolicaon*
Type Locality: "Californie" implied from the title of paper.
Types: Syntypes in USNM.
 = *californica* Ménétriés, 1855
 Enum. corp. anim. (1): 69-70, under no. 58; cited *Papilio zolicaon* Boisduval, 1852, Annls. Soc. Entomol. Fr. (2)10(2): 281-2, no. 3.
Original Combination: *P[apilio] Machaon* var. *Californica*
Type Locality: "Californie"
Types: Type(s) probably in ZIN.
 = *nitra* W. H. Edwards, [1884]
 Papilio 3(7-10): 158, 162, no. 3; figured by W. H. Edwards (1888), Butterflies N. Am. 3(6): pl. Papilio 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Papilio Nitra*
Type Locality: "some parts of Montana, and probably in Brit. Am."; "Judith Mtns., Montana" implied from the title of the paper. The lectotype is from "Mt. Judith, Montana." [Fergus County]
Types: Lectotype in CMNH, designated by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 26, fig. 8 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 41, fig. 2 ♂ D.
 = *gothica* C. Remington, 1968
 Postilla 119: 2-6, figs. 1 ♂ D, 3 ♂ V (holotype), 2 ♀ D, 4 ♀ V, 6 ♂ D, 7 ♀ D, 8 ♂ D, 9 ♀ D, 14 ♂ V, 15 ♀ V, 16 ♂ V, 17 ♀ V.
Original Combination: *Papilio gothica*
Type Locality: "Gothic, 9500', Gunnison Co., Colorado"
Types: Holotype in PMNH.
 = ‡"impunctata" Fischer, 1908
 Soc. Entomol. 23(17): 129.
Original Combination: *Papilio zolicaon* ab. *impunctata*
Type Locality: Not stated.
Types: Location of "type" not known.
 = ‡"melanotaenia" Fischer, 1908
 Soc. Entomol. 23(17): 129.
Original Combination: *Papilio zolicaon* ab. *melanotaenia*
Type Locality: Not stated.
Types: Location of "type" not known.
 = ‡"formosa" Fischer, 1908
 Soc. Entomol. 23(17): 129-130.

Original Combination: *Papilio zolicaon* ab. *formosa*

Type Locality: Not stated.

Types: Location of "type" not known.

= ‡"mcdunnoughi" Gunder, 1928

Can. Entomol. 60(7): 162, pl. A, figs. 1 ♂ D, 1a ♂ V ("holotype").

Original Combination: *Papilio zelicaon* tr.

f. *mcdunnoughi*

Type Locality: "Waterton lakes, Alta., Can."

[Alberta]

Types: "Holotype" in CNC.

This was spelled "macdunnoughi" by dos Passos (1964), Mem. Lepid. Soc. 1: 35, representing an unjustified emendation.

‡"comstocki" Scott, 1981

Papilio (n.s.) 1: 1-2.

Original Combination: *Papilio*

zelicaon form *comstocki*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

‡"ampliatanitra" Scott, 1981

Papilio (n.s.) 1: 1-2.

Original Combination: *Papilio*

zelicaon form *ampliatanitra*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

306. ***Papilio indra*** Reakirt, 1866

- a. ***Papilio indra shastensis*** J. Emmel & T. Emmel, 1998
Syst. W. N. Am. Butterflies (55): 701-702, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Papilio indra shastensis*

Type Locality: "California: Shasta County; McCloud Bridge Campground, Shasta Lake"

Types: Holotype in LACM.

- b. ***Papilio indra indra*** Reakirt, 1866

Proc. Entomol. Soc. Philad. 6(1): 123-124.

Original Combination: *Papilio Indra*

Type Locality: "Pike's Peak, Colorado Terr." [El Paso-Teller counties] This species is not currently known from the Pikes Peak area; the holotype probably came from the area west of Golden, Jefferson County, most likely Lookout Mountain or Mount Zion (A. Warren pers. comm. 2006).

Types: Holotype (#7010) in ANSP.

- c. ***Papilio indra phyllisae*** J. Emmel, 1982

J. Lepid. Soc. 35(4): 297-298, figs. 3 ♂ D&V (holotype), 4 ♀ D&V.

Original Combination: *Papilio indra phyllisae*

Type Locality: "Butterbrecht Peak and ridge running to the southwest, 4900'-5900', Kern Co., California, S. 30 & S. 31, T. 29 S., R. 36 E"

Types: Holotype in LACM.

- d. ***Papilio indra pergamus*** Hy. Edwards, 1874

Proc. Calif. Acad. Sci. [1]5(27): 423-424.

Original Combination: *Papilio Pergamus*

Type Locality: "near Santa Barbara"; corrected to "Devil Canyon, about 11 km NNW of San Bernardino, San

- Bernardino Mountains, San Bernardino County, California" by S. Miller (1984), J. Res. Lepid. 23(2): 175.
Types: Holotype in AMNH.
- e. **Papilio indra fordii** J. A. Comstock & Martin, 1956
 Bull. South. Calif. Acad. Sci. 54(3): 144-145, pl. 40, figs. 3 ♂ D (holotype), 4 ♀ D; pl. 41, figs. 3 ♂ V (holotype), 4 ♀ V.
Original Combination: *Papilio indra fordii*
Type Locality: "Granite Mountains, a few miles north and east of Apple Valley, San Bernardino County, California"
Types: Holotype in LACM; figured by Howe (1975), Butterflies N. Am.: pl. 67, fig. 5 ♂ D.
- f. **Papilio indra parvindra** J. Emmel, T. Emmel & Griffin, 2008
 J. Res. Lepid. 40: 118-119.
Original Combination: *Papilio indra parvindra*
 Proposed as a replacement name for *Papilio indra pygmaeus* J. Emmel, T. Emmel & Griffin, 1998, with the same data (Code Article 60.3).
 = ~~†~~*pygmaeus* J. Emmel, T. Emmel & Griffin, 1998
 Syst. W. N. Am. Butterflies (57): 712, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Papilio indra pygmaeus*
Type Locality: "California: San Bernardino County; eastern Mojave Desert; Dead Mts. NNW of Needles; peak of Mt. Manchester, 3560-3600' el., SW 1/4 of S.18, T.11N., R.22E"
Types: Holotype in LACM.
 This name is preoccupied by *Papilio menestheus pygmaeus* Aurivillius, 1898, K. svenska. VetenskAkad. Handl., ny följd 31: 478.
- g. **Papilio indra martini** J. Emmel & T. Emmel, 1966
 Entomol. News 77(3): 57-60, fig. 1 upper left ♂ D (holotype), upper right ♀ D, lower left ♂ V (holotype), lower right ♀ V, fig. 2 left column, bottom ♀ D, right column ♀ D.
Original Combination: *Papilio indra martini*
Type Locality: "Gilroy Canyon, elevation 5,600 feet, Providence Mountains, San Bernardino County, California"
Types: Holotype in LACM.
- h. **Papilio indra panamintensis** J. Emmel, 1982
 J. Lepid. Soc. 35(4): 300-301, figs. 5 ♂ D&V (holotype), 6 ♀ D&V.
Original Combination: *Papilio indra panamintensis*
Type Locality: "Thorndike Campground, Wildrose Canyon, 7400', Panamint Range, Inyo Co., California, S. 35, T. 19 S., R. 45 E"
Types: Holotype in LACM.
- i. **Papilio indra nevadensis** T. Emmel & J. Emmel, 1971
 Pan-Pac. Entomol. 47(3): 220-222, fig. 1 ♂ D&V, ♀ D&V.
Original Combination: *Papilio indra nevadensis*
Type Locality: "Jett Canyon, 6,600 feet elevation, east side; Toiyabe Range, Nye County, Nevada"
Types: Holotype in LACM.
- j. **Papilio indra calcicola** J. Emmel & Griffin, 1998

Syst. W. N. Am. Butterflies (56): 707-708, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Papilio indra calcicola*

Type Locality: "Nevada: Clark County; Muddy Mountains; canyon east of Buffington Pockets; 5.9 air miles north and 0.3-0.4 air miles east of 5363' Muddy Peak, 3,400-3,800' elevation; T18S R65E"

Types: Holotype in LACM.

k. **Papilio indra minori** Cross, 1937

Proc. Colo. Mus. Nat. Hist. 16(1): 4-5, fig. ♂ D (holotype).

Original Combination: *Papilio indra minori*

Type Locality: "Black Ridge Breaks'...Mesa County" [Colorado]

Types: Holotype in USNM.

l. **Papilio indra kaibabensis** Bauer, 1955

Lepid. News 9(2/3): 49-50, figs. 3rd row ♀ D, ♂ D (holotype), 4th row ♀ V, ♂ V (holotype).

Original Combination: *Papilio indra kaibabensis*

Type Locality: "Bright Angel Point, Grand Canyon, Coconino Co., Ariz." [Arizona]

Types: Holotype may be in the Grand Canyon National Park Naturalist Workshop collection, or in USNM.

Subgenus **Sinoprinceps** Hancock, 1983

Smithersia 2: 35. Type-species: *Papilio xuthus* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 751, no. 34; corrigenda, by original designation.

307. **Papilio xuthus** Linnaeus, 1767 (emended)

Syst. Nat. (ed. 12) 1(2): 751, no. 34; corrigenda.

Original

Combination: *P[apilio]. E[ques]. A[chivus]. Xanthus*

Type Locality: "India orientalis"; suggested to be "Canton" by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 392. [China]

Types: Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 392, fig. 20 ♂ D.

This name was emended to *xuthus* in the index; *xanthus* is an incorrect original spelling. I.C.Z.N. *Opinion* 286 placed *xuthus* on the *Official List of Names Available in Zoology* as name no. 117 and *xanthus* on the *Official List of Rejected and Unavailable Names in Zoology* as name no. 69. Most of the synonymy is not listed.

= *xuthulus* Bremer, 1861

Bull. Acad. Sci. St. Pétersbourg (3)3: cols. 463-464, no. 1; figured by Bremer (1864), Mém. Acad. Imp. Sci. St.-Pétersbourg (ser. 7)8(1): pl. 1, fig. 2 ♂ D&V.

Original Combination: *Papilio xuthulus*

Type Locality: "Bureja-Gebirge" [Republic of Buryatia, Russia]

Types: Type(s) in ZIN.

= *xuthulinus* Murray, 1874

Entomol. Mon. Mag. 11(126): 166.

Original Combination: *Papilio Xuthulinus*

Type Locality: "immediate neighborhood of Yokohama" [Japan]

Types: Location of type(s) not known, possibly in BMNH.

Subgenus **Heraclides** Hübner, [1819]

Verz. bekannt. Schmett. (6): 83-84. Type-species: *Papilio thoas* Linnaeus, 1771, Mant. Plant. (2nd ed.): 536, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 187, no. 517. Zakharov *et al.* (2004), Syst. Biol. 53(2):193-215, suggested that this group (with the present synonymy) might be considered a genus-level taxon.

- = *Calaidides* Hübner, [1819]
Verz. bekannt. Schmett. (6): 86. Type-species: *Papilio androgeus* Cramer, 1775, Uitl. Kapellen 1(2): 24-25, pl. 16, figs. C, D; (8): 151 (index), by designation of Rothschild and Jordan (1906), Novit. Zool. 13(3): 358.
- = *Priamides* Hübner, [1819]
Verz. bekannt. Schmett. (6): 87. Type-species: *Priamides hipponous* Hübner, [1819], Verz. bekannt. Schmett. (6): 87, no. 896 (= *Papilio anchisiades* Esper, 1788, Ausl. Schmett. (4): 53, no. 22, pl. 13, figs. 1, 2; junior objective synonym), by designation of Hemming (1935), Entomol. 68(861): 39.
- = *Troilides* Hübner, [1825]
Samml. exot. Schmett. 2: pl. [111]. Type-species: *Troilides tros* Hübner, [1825], Samml. exot. Schmett. 2: pl. [111], figs. 1, 2 (= *Papilio polybius* Swainson, 1822, Zool. Illustr. (1)2(18): pl. 94, unnumbered text; synonym: a subspecies of *Papilio torquatus* Cramer, 1777, Uitl. Kapellen 2(14): pl. 177, figs. A, B; (16) 151 (index)), by monotypy.
- = ‡*Thoas* Swainson, 1833
Zool. Illustr. (2)3(26): pl. 121, unnumbered text. Type-species: *Papilio thoas* Linnaeus, 1771, Mant. Plant. (2nd ed.): 536, by tautonymy; a junior objective synonym of *Heraclides* Hübner, [1819].

***308. *Papilio thoas* Linnaeus, 1771**

Mant. Plant. (2nd ed.): 536; cited Drury (1770), Ill. Nat. Hist. 1: pl. 22, figs. 1, 2, Daubenton [1765], Miscellanea: pl. 69, and Seba (1764), Locuplet. Rerum Nat. Thes. 4: pl. 38, figs. 6 ♂ D, 7 ♂ V.

Original Combination: *Papilio E[ques]. A[chivus]. Thoas*

Type Locality: "Guadelupa, Surinamo"

Types: Type(s) apparently lost, as noted by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 386.

- = *archimedes* (Fabricius, 1938)
In: Bryk, Syst. Glossat.: 46, no. 97.

Original Combination: *P[apilio]. Archimedes*

Type Locality: Not stated.

Types: Holotype in 'Museum Gallicum.'

- a. ***Papilio thoas autacles* Rothschild & Jordan, 1906**
Novit. Zool. 13(3): 557-558, no. 66c; cited *Papilio thoas* (*sensu* Godman & Salvin (1890), Biol. centr.-amer., Lepid. Rhop. 3(89): pl. 69, fig. 4, and Maynard (1891), Man. N. Am. Butterflies: fig. 10b).

Original Combination: *P[apilio]. thoas autacles*

Type Locality: "Guerrero" [Mexico]

Types: Holotype in BMNH.

- = ‡"*nigrocaudata*" Vázquez, 1948
An. Instit. Biol., Univ. Nac. Auton. Méx. (Zool.) 19(1): 234-235.

- Original Combination:** *Papilio thoas*
autocles f[orma]. *nigro-caudata*
Type Locality: "Mapastepec, Chis...Tierra Blanca, Ver." [Mexico]
Types: "Syntypes" in UNAM and MGCL.
- = ‡"ochracea" Beutelspacher, 1976
Revta. Soc. Méx. Lepid. 2(2): 63.
Original Combination: *Papilio thoas*
autocles forma *ochracea*
Type Locality: "Yaxchilan, Chis." [Chiapas, Mexico]
Types: "Holotype" in UNAM.
- = ‡"nigrimarginata" Beutelspacher, 1976
Revta. Soc. Méx. Lepid. 2(2): 63.
Original Combination: *Papilio thoas*
autocles ab. *nigrimarginata*
Type Locality: "Tajín, Ver." [Veracruz, Mexico]
Types: "Holotype" in de la Maza collection.
309. **Papilio crespontes** Cramer, 1777
Uitl. Kapellen 2(14): 106-107, pl. 165, figs. A ♀ D&V, pl. 166, fig. B ♂ D; (16): 148 (index); cited Daubenton [1765],
Miscellanea: pl. 69.
Original
Combination: *Pap[ilio]. Equ[es]. Achiv[us]. Crespontes*
Type Locality: "Noord-Amerika, te Nieuwjork en op het Eiland Jamaika...Zuid-Carolina" "l'Amerique Septentrionale, à la nouvelle-York & dans l'Isle de la Jamaïque...Caroline Méridionale"
Types: Location of type(s) not known, probably lost.
= ‡*oxilus* (Hübner, [1819])
Verz. bekannt. Schmett. (6): 83, no. 850;
cited *Papilio crespontes* Cramer, 1777, Uitl. Kapellen 2(14): pls. 166 A & 165 B: (16): 148 (index).
Original Combination: *Heraclides Oxilus*
Proposed as a replacement name for *Papilio crespontes* Cramer, 1777, erroneously thought preoccupied, with the same data; a junior objective synonym of *crespontes*.
- = *pennsylvanicus* F. Chermock & R. Chermock, 1945
Proc. Penn. Acad. Sci. 19: 38-39.
Original Combination: *Papilio crespontes*
pennsylvanicus
Type Locality: "State College, Pa." [Centre County, Pennsylvania]
Types: Holotype in CMNH.
- = ‡"lurida" Schultz, 1908
Entomol. Z. 22(23): 92.
Original Combination: *Papilio crespontes* ab. (nov.) *lurida*
Type Locality: Not stated.
Types: Location of "type" not known.
- = ‡"luxuriosa" Reiff, 1911
Z. wiss. InsektBiol. 7(5/6): 159.
Original Combination: [*Papilio thoas crespontes*] ab. *luxuriosa*
Type Locality: Not stated.
Types: "Holotype" in MCZ.

- = ‡"intacta" Strand, 1918
Soc. Entomol. 33(12): 47.
Original Combination: *Papilio cresphontes* ab. *intacta*
Type Locality: Not stated.
Types: Location of "type" not known, possibly in DEI.
- = ‡"maxwelli" Franck, 1919
Bull. Brooklyn Entomol. Soc. 14(1): 3, fig. 2 ("holotype").
Original Combination: *Papilio cresphontes* var. *maxwelli*
Type Locality: Not originally stated; said to be "St. Petersburg, Fla." by Franck (1919), Bull. Brooklyn Entomol. Soc. 14(3): 101. [Pinellas County, Florida]
Types: "Holotype" in USNM, according to Calhoun (1992), J. Lepid. Soc. 46(3): 238.
- = ‡"forsythae" Gunder, 1933
Can. Entomol. 65(8): 171.
Original Combination: *Papilio cresphontes* tr. f. *forsythae*
Type Locality: "Florida City, Florida" [Miami-Dade County]
Types: "Holotype" in AMNH.
- = ‡"melanurus" Hoffmann, 1940
An. Inst. Biol. Univ. Méx. 11(2): 633-634.
Original Combination: *Papilio cresphontes* forma *melanurus*
Type Locality: "Chilpancingo e Iguala" [Guerrero, Mexico]
Types: "Syntypes" in AMNH.
- *310. **Papilio astyalus** Godart, 1819
In: Ency. méth. 9(Ins.)(1): (20), 62, no. 102.
Original Combination: *Papilio Astyalus*
Type Locality: "Brésil"
Types: Holotype should be in MNHP.
- = *lycophron* (Hübner, [1823])
Samml. exot. Schmett. 2: pl. [100], figs. 1 ♂ D, 2 ♂ V.
Original Combination: *Heraclides Lycophron*
Type Locality: Not stated.
Types: Type(s) probably lost.
- = *mentor* Dalman, 1823
Analecta Entomol.: 37-38, no. 2.
Original Combination: *Papilio Mentor*
Type Locality: "Brasilia?"
Types: Holotype possibly in NHRS.
- = ‡*pirithous* Boisduval, 1836
Spec. gén. Lépid. 1: 358-359, no. 201.
Original Combination: *Papilio Pirithous*
Type Locality: "Cuba...Missions de l'Uruguay"; defined as "Uruguay" by Rothschild and Jordan (1906), Novit. Zool. 13(3): 573.
Types: Type(s) probably in BMNH.
Preoccupied by *Papilio pirithous* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 790, no. 235.
- = ‡*oebalus* Boisduval, 1836
Spec. gén. Lépid. 1: 360-361, no. 204.
Original Combination: *Papilio Œbalus*

- Type Locality:** "l'Amerique du Sud"
Types: Type(s) probably in BMNH.
 Preoccupied by *Papilio oebalus* Hofmannsegg, 1804, Mag. f. Insektenk. (Illiger) 3: 185.
- = ‡"delunensis" Niepelt, 1916
In: Strand, *Lepid. Niepelt*. 2: 21, pl. 13, fig. 10.
Original Combination: *Papilio lycophron* ab. *delunensis*
Type Locality: "Brazil"
Types: Location of "type(s)" not known, possibly DEI.
- = ‡"paulina" Krüger, 1934
Entomol. Rdsch. 51(14): 152.
Original Combination: *Papilio lycophron* ♀ f. *paulina*
Type Locality: "São Paulo...Minas Geraës" [Brazil]
Types: "Holotype" possibly in ZMUH.
- = ‡"thersitoides" Rousseau-Decelle, 1943
Bull. Soc. Entomol. Fr. 48(8): 111.
Original Combination: *Papilio lycophron lycophron* f. ind. ♂ *thersitoides*
Type Locality: "Bella Vista, Parana, Argentinien"
Types: "Holotype" in MNHP.
- = ‡"suffusa" Rousseau-Decelle, 1943
Bull. Soc. Entomol. Fr. 48(8): 111.
Original Combination: *Papilio lycophron* ♀ *pirothous* f. ind. ♀ *suffusa*
Type Locality: "Paraguay"
Types: "Holotype" in MNHP.
- ‡"drepanon" G. Gray, 1856
List Spec. Lepid. Ins. Brit. Mus. (1): 53, no. 202.
Original Combination: *Papilio Drepanon*
 This name was listed without a description or indication; a *nomen nudum*.
- a. ***Papilio astyalus pallas*** G. Gray, [1853]
Cat. Lepid. Ins. Brit. Mus. 1: 39, no. 193, pl. 6, fig. 1 ♂ D&V; under *Papilio oebalus*.
Original Combination: *Papilio Pallas*
Type Locality: "Mexico"; stated to be "Oajaca" by E. Doubleday [1845], *List Spec. Lepid. Brit. Mus.* 1: 17. [Oaxaca]
Types: Holotype in BMNH.
 This name was listed without a description or indication by E. Doubleday [1845], *List Spec. Lepid. Brit. Mus.* 1: 17, and (1846), *in:* *Gen. diurn. Lepid.*(1)(2): 17, no. 168; both are *nomina nuda*.
- = *hozaus* Ehrmann, 1921
Lepidoptera 5(1): 3.
Original Combination: *Papilio hozaus*
Type Locality: "Costa Rica"
Types: Type(s) probably in CMNH.
- b. ***Papilio astyalus bajaensis*** J. Brown & Faulkner, 1992
Butterflies Baja Calif.: 54.
Original Combination: *Papilio astyalus bajaensis*
 Proposed as a replacement name for *Papilio (Heraclides) astyalus occidentalis* J. Brown and Faulkner, 1984, preoccupied, with the same data (Code Article 60.3).

- = ‡*occidentalis* J. Brown & Faulkner, 1984
Bull. Allyn Mus. (83): 5-6, figs. 3a ♂ D, 3b ♂ V, 3c ♀ D.
Original Combination: *Papilio (Heraclides) astyalus occidentalis*
Type Locality: "San Antonio microwave tower, Baja California Sur, Mexico"
Types: Holotype in SDMC.
Preoccupied by *Papilio blumei occidentalis* Martin, 1915, Dtsche. Entomol. Z. "Iris" 291): 75.
311. **Papilio ornythion** Boisduval, 1836
Spec. gén. Lépid. 1: 354, no. 196.
Original Combination: *Papilio Ornythion*
Type Locality: "Yukatan" [Mexico]
Types: Holotype probably in BMNH.
- *312. **Papilio aristodemus** Esper, 1794
Magaz. Neuest. Ausl. Ins. 1: 8, pl. papill. exot. 2, fig. 2 ♂ D&V; figured by Esper (1801), Ausl. Schmett. (16): 240, pl. 59, fig. 2 ♂ D&V.
Original Combination: *Pap[ilio]. Equ[es]. Achiv[us]. Aristodemus*
Type Locality: "Port-au-Prince" [Haiti]
Types: Location of type(s) not known, probably lost.
= *cresphontinus* Martyn, 1797
Psyche: 8, pl. 3, fig. 8; pl. 4, fig. 10.
Original Combination: *Papilio Cresphontinus*
Type Locality: "Port-au-Prince" [Haiti]
Types: Location of "type(s)" not known.
= ‡*daphnis* G. Gray, [1853]
Cat. Lepid. Ins. Brit. Mus. 1: 39, no. 198.
Original Combination: *Papilio Daphnis*
Type Locality: "Antilles?"
Types: Holotype in BMNH.
Preoccupied by *Papilio daphnis* [Denis & Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 182, no. 2.
- a. **Papilio aristodemus ponceanus** Schaus, 1911
Entomol. News 22(10): 438-439.
Original Combination: *Papilio ponceanus*
Type Locality: "Miami, Florida" [Miami-Dade County]
Types: Syntypes in USNM.
= *driophilus* Clench, 1979
J. Lepid. Soc. 32(4): 273-274.
Original Combination: *Papilio aristodemus driophilus*
Type Locality: "Cutlass Bay, near Dolphin Head, southern Cat Island, Bahamas"
Types: Holotype (#680) in CMNH.
Simon and L. Miller (1986), Bull. Allyn Mus. (105): 13, determined this synonymy.
- *313. **Papilio andraemon** (Hübner, [1823])
a. **Papilio andraemon andraemon** (Hübner, [1823])
Samml. exot. Schmett. 2: pls. [98], figs. 1 ♂ D, 2 ♂ V, [99], figs. 3 ♀ D, 4 ♀ V.
Original Combination: *Heraclides Andraemon*
Type Locality: Not stated; defined as "Cuba" by Rothschild and Jordan (1906), Novit. Zool. 13(3): 571.

Types: Type(s) probably lost.

Documented from Florida by Cannon (2006), Am. Butterflies 14(3/4): 4-15.

= *hernandezi* (R. Torre, 1936)

Mems. Soc. Cubana Hist. Nat. 10(5): 333-334, pl. 24, fig. 2 ♂ D&V.

Original Combination: *Papilio (Heraclides) andraemon hernandezi*

Type Locality: "Ampliación de Almendares, Marianao, Habana, Cuba"

Types: Location of type(s) not known, possibly in IZAC.

b. *Papilio andraemon bonhotei* Sharpe, 1900

Proc. Zool. Soc. Lond. 1900(2): 201, no. 19, pl. 19, figs.

1 ♂ D, 1a ♂ V, 1b ♀ D, 1c ♀ V.

Original Combination: *Papilio bonhotei*

Type Locality: "Nassau" [Bahamas]

Types: Holotype in BMNH.

***314. *Papilio androgeus* Cramer, 1775**

Uitl. Kapellen 1(2): 24-25, pl. 16, figs. C ♂ D, D ♂ V; (8): 151 (index).

Original

Combination: *Pap[ilio]. Eq[ues]. Trojan[us]. Androgeus*

Type Locality: "Surinamen" "Surinam"

Types: Location of type(s) not known, probably lost.

= *orestes* Meerburgh, [1777]

Afbeeld. Gewass.: [15] D₂, [16] D₂ verso, pls. 26 ♂ D, 30 ♂ V.

Original Combination: *Papilio (Orestes)*

Type Locality: Not stated.

Types: Location of type(s) not known, probably lost.

= *polycyon* Cramer, 1779

Uitl. Kapellen 3(17): 17-18, pl. 203, figs. A ♂ D, B ♂ V; (24): 176 (index).

Original

Combination: *Pap[ilio]. Eq[ues]. Achiv[us]. Polycyon*

Type Locality: "Surinamen" "Suriname"

Types: Location of type(s) not known, probably lost.

= *piranthus* Cramer, 1779

Uitl. Kapellen 3(17): 18-19, pl. 204, figs. A ♀ D, B ♀ V: (24): 176 (index); cited Merian (1705), Ins. Surinam.: pl. 31, Seba (1765), Locuplet. Rerum. Nat. Thes. 4: pl. 38, figs. 13, 14, and Kleemann (1765), Beytr. Nat. Ins. 1: pl. 8, figs. 1, 2.

Original

Combination: *Pap[ilio]. Eq[ues]. Achiv[us]. Piranthus*

Type Locality: "Surinamen" "Suriname"

Types: Location of type(s) not known, probably lost.

= *acanthus* Gmelin, [1790]

Syst. Nat. (ed. 13) 1(5): 2231, no. 290B, under *Papilio androgeus*; cited *Papilio piranthus* Cramer, 1779, Uitl. Kapellen 3(17): 18-19, pl. 204, figs. A, B; (24): 176 (index).

Original Combination: *Papilio Acanthus*

Type Locality: "Surinamo"

Types: Location of type(s) not known.

= *bagous* Fruhstorfer, 1910

In: Koch-Grünberg, Zwei Jahre Indianern 2: 357-358, no. 54.

Original Combination: *Pap[ilio]. Androgeus bagous*

Type Locality: Not specifically stated; "oberen Rio Negro" implied from the introduction (pp. 350-351), "nordwest-Brasilien" from the title of the work.

Types: Location of type(s) not known, possibly in ZMHB or BMNH.

= ‡"mira" Fassl, 1922

Entomol. Rdsch. 39(1): 1.

Original Combination: *Papilio androgeus* ♀
form. *mira*

Type Locality: "Manicoré" [Amazonas, Brazil]

Types: "Holotype" in NHMB.

= ‡"feyeri" Niepelt, 1924

Int. Entomol. Z. 18(11): 49.

Original Combination: *Papilio androgeos* ♀
forma *feyeri*

Type Locality: "Ecuador"

Types: "Holotype" in BMNH; figured by Tyler *et al.* (1994), Swallowtail Butterflies Am.: pl. 87, fig. I ♀ D.

= ‡"fassli" Knop, 1925

Entomol. Z. 39(11): 43.

Original Combination: *Papilio*
Androgeus var. *Fassli*

Type Locality: "Manicoré Brasilien" [Amazonas, Brazil]

Types: "Holotype" in NHMB.

The text clearly indicates that this taxon was described as an individual variant.

= ‡"decellei" Krüger, 1934

Entomol. Rdsch. 51(14): 151.

Original Combination: *Papilio*
androgeus ♀ *androgeus* ab. *Decellei*

Type Locality: "São Paulo de Olivença" [Amazonas, Brazil]

Types: "Holotype" possibly in ZMUH.

= ‡*hibisci* Fabricius, 1938

In: Bryk, Syst. Glossat.: 34, no. 57; cited *Papilio androgeus* Cramer, 1775, Uitl. Kapellen 1(2): 24-25, pl. 16, figs. C ♂ D, D ♂ V' (8): 151 (index).

Original Combination: *P[apilio]. T[rojanus]. Hibisci*
Proposed as a replacement name for *Papilio androgeus*, based on a supposed foodplant name; a junior objective synonym of *androgeus*.

= ‡*altheae* Fabricius, 1938

In: Bryk, Syst. Glossat.: 48, no. 107; cited *Papilio polycaon* Cramer (1779), Uitl. Kapellen 3(17): 17-18, pl. 203, figs. A ♂ D, B ♂ V; (24): 176 (index).

Original Combination: *P[apilio]. A[chivus]. Altheae*
Proposed as a replacement name for *Papilio polycaon* Cramer (1779), based on a supposed foodplant name; a junior objective synonym of *polycaon*.

a. ***Papilio androgeus epidaureus*** Godman & Salvin, 1890

Biol. centr.-amer., Lepid. Rhop. 2(88): 224-225, no. 55; 3(89): pl. 69, figs. 1 ♀ D, 2 ♀ V, 3 ♂ valve.

Original Combination: *Papilio epidaureus*

Type Locality: "Mexico, Ciudad, Ventanas in Durango...Cordova...San Lorenzo near Cordova...Atoyac...Guatemala, forests of Northern Vera Paz, Yzabal, Polochic valley...Panzos...Pacific coast...El Reposo...Nicaragua, Chontales...Costa Rica...Panama, Bugaba...Calobre...Veraguas...Lion Hill...San Domingo"

Types: Syntypes in BMNH.

= ‡"ochracea" Beutelspacher, 1976
Revta. Soc. Méx. Lepid. 2(2): 65, fig. 4 ♂ D&V ("holotype").

Original Combination: *Papilio androgeus epidaureus* forma *ochracea*

Type Locality: "Yaxchilán, Chis." [Chiapas, Mexico]

Types: "Holotype" in UNAM.

***315. *Papilio anchisiades* Esper, 1788**

Ausl. Schmett. (4): 53-55, pl. 13, figs. 1 ♂ D&V, 2 ♀ D&V; cited *Papilio anchises* (*sensu* Cramer, 1782, Uitl. Kapellen 4(27): pl. 318, figs. A, B), and Merian (1705), Ins. Surinam.: pl. 17.

Original

Combination: *P[apilio]. Equ[es]. Troj[anus]. Anchisiades*

Type Locality: "Surinam" implied from the citations.

Types: Location of type(s) not known. Esper might have based his description on Cramer's illustration of *anchises*. Hemming (1964), Annot. Lepid. (3): 106, discussed the name *Papilio anchises* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 460, no. 10 (a taxon currently in the genus *Parides*), and designated Cramer's fig. A as the lectotype of *P. anchisiades*.

= ‡*hipponous* (Hübner, [1819])
Verz. bekannt. Schmett. (6): 87, no. 896;
cited *Papilio anchises* Cramer, 1780, Uitl. Kapellen 4(27): pl. 318, figs. A-D.

Original Combination: *P[riamides]. Hipponous*
Proposed to replace *Papilio anchises* (*sensu* Cramer, 1780, Uitl. Kapellen 4(27): 58-59, pl. 318, fig. A; not *anchises*). The lectotype is Cramer's figure, designated by Hemming (1964), Annot. Lepid. (3): 107. A junior objective synonym of *anchisiades*.

= *archelaus* Godart, 1819
In: Ency. méth. 9(Ins.)(1): (14), 32, no. 19; cited Merian (1705), Ins. Surinam.: pl. 17, *Papilio anchises* Cramer, 1780, Uitl. Kapellen 4(27): pl. 318, figs. A-D, Stoll (1787), Anhangs. Werkes Uitl. Kapellen Pieter Cramer (1): pl. 1, fig. 2 larva, and *Princeps anchises* (*sensu* Hübner [1812], Samml. exot. Schmett. 1: pl. [119]).

Original Combination: *Papilio Archelaus*

Type Locality: "Guyane au Brésil"

Types: Type(s) may be in MNHP.

= *theramenes* C. Felder & R. Felder, 1861
Wien. Entomol. Montaschr. 5(3): 74, no. 9.

Original Combination: *Papilio Theramenes*

Type Locality: "Venezuela, in provincia Caracas"

Types: Syntype in BMNH; figured by Tyler *et al.* (1994), Swallowtail Butterflies Am.: pl. 81, fig. C ♀ D.

= *matusiki* (K. Johnson & Rozycki, 1986)

J. N. Y. Entomol. Soc. 94(3): 388-389, figs. 1A ♂ D, 1B ♂ V (holotype), 3H ♂ genitalia, 5A ♂ valve.

Original Combination: *Heraclides matusiki*

Type Locality: "Venezuela, Caripito" [Monagas]

Types: Holotype in AMNH; figured by Tyler *et al.* (1994), Swallowtail Butterflies Am.: pl. 81, figs. K ♂ V, 7 ♂ D.

a. **Papilio anchisiades idaeus** Fabricius, 1793

Entomol. Syst. 3(1): 16, no. 48; cited Jones' Icones 1: pl. 25; figured by Donovan (1800), Epit. Ins. India: pl. [19], fig. 2 (a copy from Jones' Icones).

Original Combination: *P[apilio]. E[ques Trojanus] Idaeus*

Type Locality: "Madras" in error. [India]

Types: Type(s) probably lost; based on specimens figured by Jones.

= *pandion* H. Bates, 1863

Proc. Zool. Soc. Lond. 1863(2): 242, no. 5.

Original Combination: *Papilio*

Anchisiades var. *pandion*

Type Locality: "Southern Mexico"

Types: Holotype probably in BMNH.

This butterfly was listed without a description or indication by Bates (1861), Trans. Entomol. Soc. Lond. (2)5(8): 338; a *nomen nudum*.

= ‡*pandion* C. Felder & R. Felder, 1865

Reise Novara Zool. (1): 79-80, no. 61.

Original Combination: *Papilio Pandion*

Type Locality: "Mexico"

Types: Syntypes in BMNH.

Preoccupied by *Papilio*

anchisiades var. *pandion* H. Bates, 1863, Proc. Zool. Soc. Lond. 1863(2): 242, no. 5.

= *pandonius* Staudinger, 1894

Dtsche. Entomol. Z. "Iris" 7(1): 104 (nota).

Original Combination: [*Papilio*] *Pandonius*

Proposed as a replacement name for *Papilio pandion* C. Felder & R. Felder, [1865].

*316. **Papilio rogeri** Boisduval, 1836

Spec. gén. Lépid. 1: 278-279, no. 102.

Original Combination: *Papilio Rogeri*

Type Locality: "Yukatan" [Mexico]

Types: Holotype in MNHP.

a. **Papilio rogeri pharnaces** E. Doubleday, 1846

Ann. Mag. Nat. Hist. [1]18(121): 374-375; figured by G. Gray [1853], Cat. Lepid. Ins. Brit. Mus.: 64, no. 282, pl. 5 fig. 1 ♂ D.

Original Combination: *Pap[ilio]. Pharnaces*

Type Locality: "America Merid."; Godman & Salvin (1890), Biol. centr.-amer., Lepid. Rhop. 2(88): 231-232, no. 64, noted that all specimens in the BMNH were from "Oaxaca." [Mexico]

Types: Holotype in the Loddiges collection, possibly in BMNH.

Recorded from Texas by Bordelon (1998), News Lepid. Soc. 40(2): 38.

= *phanostratus* Godman & Salvin, 1890

Biol. centr.-amer., Lepid. Rhop. 2(88): 232, no. 65.

Original Combination: *Papilio phanostratus*

- Type Locality:** "Mexico, Jalapa" [Veracruz]
Types: Holotype in BMNH.
- = *polycharmus* Godman & Salvin, 1890
 Biol. centr.-amer., Lepid. Rhop. 2(88): 232, no. 66;
 3(90): pl. 70, fig. 10 ♂ D.
Original Combination: *Papilio polycharmus*
Type Locality: "Mexico, Presidio de Mazatlan"
 [Sinaloa]
Types: Holotype in BMNH.
- = ‡"paucimaculata" Vázquez, 1947
 An. Instit. Biol., Univ. Nac. Auton. Méx. (Zool.)
 18(1): 249-252, figs. 1 ♂ D, 2 ♂ V ("holotype").
Original Combination: *Papilio pharnaces* forma
 masculina *paucimaculata*
Type Locality: "Empalme Escobedo,
 Guanajuato" [Mexico]
Types: "Holotype" in MGCL.
- = ‡"dissimilis" Vázquez, 1957
 An. Instit. Biol., Univ. Nac. Auton. Méx. (Zool.)
 27(2): 478, fig. 6 ♂ D ("holotype").
Original Combination: *Papilio*
pharnaces f[orma]. *dissimilis*
Type Locality: "El Ocotal, Chis." [Chiapas,
 Mexico]
Types: "Holotype" in MGCL.

Subgenus *Pterourus* Scopoli, 1777

Intro. Hist. Nat.: 433, no. 173. Type-species: *Papilio troilus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 459, no. 5, by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 64. Zakharov *et al.* (2004), Syst. Biol. 53(2):193–215, suggested that this group (with the present synonymy) could be considered a genus-level taxon.

- = *Jasoniades* Hübner, [1819]
 Verz. bekannt. Schmett. (6): 83. Type-species: *Papilio*
turnus Linnaeus, 1771, Mant. Plant. (2nd ed.): 536 (= *Papilio*
glaucus Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 460, no. 9;
 synonym), by designation of Scudder (1875), Proc. Am. Acad.
 Arts Sci., Boston 10(2): 199-200, no. 590. As first reviser,
 Hemming (1934), Gen. Names Holarct. Butterflies 1: 147, gave
 precedence to *Jasoniades* over *Euphroeades*.
- = *Euphroeades* Hübner, [1819]
 Verz. bekannt. Schmett. (6): 83. Type-species: *Papilio*
glaucus Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 460, no. 9, by
 designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston
 10(2): 172, no. 431.
- = ‡"Caudati" Koch, 1860
 Stettiner Entomol. Ztg. 21(4-6): 230. Type-species: *Papilio*
turnus Linnaeus, 1771, Mant. Plant. (2nd ed.) 2: 536
 (= *Papilio glaucus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 460,
 no. 9; synonym), by designation of Hemming (1935),
 Entomol. 68(861): 40. This name as proposed is not a noun
 in the nominative singular, and is thus invalid (Code Article
 11.8).
- = *Pyrhosticta* Butler, 1872
 Cist. Entomol. 1(4): 86. Type-species: *Papilio laetitia* Butler,
 1872, Cist. Entomol. 1(4): 84-85 (= *Caliades menatius* Hübner,

- [1819], Verz. bekannt. Schmett. (6): 86; subspecies), by monotypy.
- = *Motasiona* Niculescu, 1979
 Revue roum. Biol. (Ser. Biol. Anim.) 24(1): 9-10. Type-species: *Papilio zagreus* E. Doubleday, 1847, Ann. Mag. Nat. Hist. [1]19(125): 174-175, by original designation.
317. **Papilio canadensis** Rothschild & Jordan, 1906
 Novit. Zool. 13(3): 586-587, no. 79; cited *Papilio glaucus* (*sensu* Gosse (1840), Can. Nat.: fig., Saunders (1874), Can. Entomol. 6: fig. 1, (1875), Rep. Entomol. Soc. Ontario 1874, figs. 13, 14, (1881), Rep. Entomol. Soc. Ontario 1880: figs. 40, 41, W. H. Edwards (1877), Butterflies N. Am. 2(6): pl. Papilio 5, fig. 1 ♂ D, and Maynard (1891), Manual N. Am. Butterflies: pl. 1, fig. 1).
Original Combination: *Papilio glaucus canadensis*
Type Locality: "Newfoundland"; holotype from "St. John's." [Newfoundland and Labrador]
Types: Holotype in BMNH.
 R. Hagen *et al.* (1991), J. Lepid. Soc. 45(4): 245-246, elevated this taxon to species-level.
- = *arcticus* Skinner, 1906
 Entomol. News 17(10): 379.
Original Combination: *Papilio rutulus arcticus*
Type Locality: "Eagle City, Alaska...Athabaska River, Canada"
Types: Syntypes (#7027) in CMNH; one figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 75, fig. 6 ♂ V.
- = ‡"fletcheri" Kemp, 1900
 Entomol. News 11(5): 482.
Original Combination: *Papilio turnus* ab. *fletcheri*
Type Locality: "Elizabeth, New Jersey" implied from the text. [Union County]
Types: "Holotype" in AMNH.
- = ‡"borealis" Boulet & Le Cerf, 1912
 Bull. Mus. Natn. Hist. Nat., Paris Suppl. [1]18(2): 24.
Original Combination: [*Papilio glaucus-canadensis*] f[orm]. *borealis*?
Type Locality: "Terre-Neuve, Dear River" [Newfoundland and Labrador]
Types: "Holotype" in MNHP.
- = ‡"deficiens" Dufrane, 1946
 Bull. Anns. Soc. Entomol. Belg. 82(5/6): 115.
Original Combination: *P[apilio]. glaucus canadensis* ab. *deficiens*
Type Locality: "Etats-Unis d'Amérique, sans localité précise"
Types: "Holotype" may be in ISRN.
318. **Papilio appalachiensis** (Pavulaan & D. Wright, 2002)
 Tax. Rep. Int. Lepid. Surv. 3(7): 8, 11-13, figs. 13 ♂ D, 14 ♂ D (holotype); 15 ♀ D, 16 ♀ V.
Original Combination: *Pterourus appalachiensis*
Type Locality: "Buck Creek Serpentine Barrens, 3200', Clay County, North Carolina"
Types: Holotype in MGCL.
 Scriber and Ordning (2005), Entomol. Exp. Appl. 115(1): 247-264, corroborated species-level status for this taxon.

319. **Papilio glaucus** Linnaeus, 1758

a. **Papilio glaucus glaucus** Linnaeus, 1758

Syst. Nat. (ed. 10) 1: 460, no. 9; Linnaeus (1764), Mus. Lud. Ulr. [1]: 190, no. 9, cited Clerck [1764], Icon. Ins. 2: pl. 24, fig. 1.

Original Combination: *P[apilio]. E[ques] Trojanus*. *Glaucus*

Type Locality: "America"; neotype from "Sandbridge, Virginia Beach, Virginia." [Virginia Beach City]

Types: Type(s) apparently lost. Neotype in MGCL, designated by Pavulaan and D. Wright (2002), Tax. Rep. Int. Lepid. Surv. 3(7): 6, fig. 19 ♀ D.

This species formed part of the type series of *Papilio ajax* (see *Eurytides marcellus*), based on Ray (1710), Hist. Ins.: 111, no. 2.

= *antiloachus* Linnaeus, 1758

Syst. Nat. (ed. 10) 1: 463, no. 28; cited Petiver (1699), Mus. Petiver. Cent. Rar. Nat. Cont. (6/7): 50. no. 505, and Catesby (1743), Nat. Hist. Carolina 2: pl. 83.

Original Combination: *P[apilio]. E[ques] Achivus* *Antiloachus*

Type Locality: "America septentrionali"; neotype from "Corapeake, Gates Co., NC." [North Carolina]

Types: Location of type(s) not known, probably lost or unrecognizable. Neotype in MGCL, designated by Pavulaan and D. Wright (2002), Tax. Rep. Int. Lepid. Surv. 3(7): 6-7, fig. 17 ♂ D.

= *turnus* Linnaeus, 1771

Mant. Plant. (2nd ed.): 536.

Original Combination: *Papilio E[quites]. A[chivus]. Turnus*

Type Locality: "America"

Types: Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 389.

= *alcidamus* Cramer, 1775

Uitl. Kapellen 1(4): 62, pl. 38, figs. A ♂ D, B ♂ V; (8): 151 (index).

Original Combination: *Pap[ilio]. Eq[ues]. Achivus Alcidamus*

Type Locality: "Jamaika...Nieuw-Jork en Carolina" "Jamaïque...Nouvelle York & dans la Caroline"; defined as "New York, Carolina" by Rothschild and Jordan (1906), Novit. Zool. 13(3): 583; supposed neotype from "Sandbridge, Virginia Beach, VA." [Southampton County]

Types: Probable syntype (#665024) in BMNH; the "neotype" in MGCL, designated by Pavulaan and D. Wright (2002), Tax. Rep. Int. Lepid. Surv. 3(7): 7, fig. 18 ♂ D, is not valid (Code Article 75.3.4).

= *†lauri* Fabricius, 1938

In: Bryk, Syst. Glossat.: 22, no. 13; cited *Papilio glaucus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 460, no. 9.

Original

Combination: *P[apilio]. T[rojanus]. Lauri*

Proposed as a replacement name for *Papilio glaucus* Linnaeus, 1758, based on a foodplant

- name; a junior objective synonym of *Papilio glaucus*.
- = ‡"delunaris" Schultz, 1908
Entomol. Z. 22(23): 92.
Original Combination: *Papilio glaucus* ab. (nov.) *delunaris*
Type Locality: "Seranton, N.-Amerika"; corrected to "Scranton" by Schultz (1908), Entomol. Z. 22(29): 119. [Lackawanna County, Pennsylvania]
Types: Location of "type" not known.
- = ‡"perfulva" Schultz, 1908
Entomol. Z. 22(23): 92.
Original Combination: *Papilio glaucus* ab. (nov.) *pervulva*; an incorrect original spelling. Corrected to "*perfulva*" by Schultz (1908), Entomol. Z. 22(29): 119.
Type Locality: Not stated.
Types: Location of "type" not known.
- = ‡"imperfecta" Reiff, 1911
Z. wiss InsektBiol. 7(5/6): 157.
Original Combination: [*Papilio glaucus turnus*] ab. *imperfecta*
Type Locality: Not stated.
Types: "Holotype" in MCZ.
- = ‡"wheeleri" Reiff, 1911
Z. wiss InsektBiol. 7(5/6): 158.
Original Combination: [*Papilio glaucus turnus*] ab. *wheeleri*
Type Locality: Not stated.
Types: "Holotype" in MCZ.
- = ‡"paupercula" Reiff, 1911
Z. wiss InsektBiol. 7(5/6): 158.
Original Combination: [*Papilio glaucus turnus*] ab. *paupercula*
Type Locality: Not stated.
Types: "Holotype" in MCZ.
- = ‡"niger" Hering, 1912
Z. wiss InsektBiol. 8(7/8): 234, fig. ♀ D.
Original Combination: [*Papilio turnus*] ab. *niger*
Type Locality: Not stated.
Types: Location of "holotype" not known.
- = ‡"dietzi" Gunder, 1927
Entomol. News 38(9): 266, pl. 5, fig. A ♀ D ("holotype").
Original Combination: *Papilio glaucus* form *turnus* tr. f. *dietzi*
Type Locality: "Van Courtland [sic!] Park, New York" [Bronx County]
Types: "Holotype" in AMNH.
- = ‡"gerhardi" Gunder, 1927
Entomol. News 38(9): 266-267, pl. 5, fig. B ♂ D ("holotype").
Original Combination: *Papilio glaucus* form *turnus* tr. f. *gerhardi*
Type Locality: "Evansville, Indiana" [Vanderburgh County]
Types: "Holotype" in FMNH.

‡"ehrmanni" McDunnough, 1938
Mem. South. Calif. Acad. Sci. 1: 5.

Original Combination: [*Papilio glaucus*]
ab. *ehrmanni*

This name was listed in the synonymy of *Papilio glaucus* without a description or indication; a *nomen nudum*.

‡"nigra" Scott, 1981
Papilio (n.s.) 1: 1.

Original Combination: *Papilio glaucus* form *nigra*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

- b. ***Papilio glaucus maynardi*** Gauthier, 1984
Shilap Revta. Lepid. 12(3): 210.

Original Combination: *Papilio glaucus maynardi*

Proposed to replace *Papilio turnus australis* Maynard, 1891, preoccupied, with the same data (Code Article 60.3). This taxon may best be considered a "clinal phenotype," as suggested by Calhoun (1997), Holarct. Lepid. 4(2): 44.

= ‡*australis* Maynard, 1891
Manual N. Am. Butterflies: 12; appendix, 215, no. 15a.

Original Combination: *Papilio turnus australis*

Type Locality: "Florida"

Types: Holotype in MCZ.

Preoccupied by *Papilio rumina australis* Esper, 1781, Schmett. 1(2)(4): 115, pl. 72, fig. 4.

- *320. ***Papilio alexiaries*** Höpffer, 1866

Stettiner Entomol. Ztg. 27(1-3): 31, no. 12.

Original Combination: [*Papilio*] *Alexiaries*

Type Locality: "Mexico"; Rothschild and Jordan (1906), Novit. Zool. 13(3): 592, stated that "Vera Cruz: Cuesta de Misantla, Mexico" was the known range.

Types: Type(s) may be in ZMHB.

- a. ***Papilio alexiaries garcia*** Rothschild & Jordan, 1906
Novit. Zool. 13(3): 592, no. 83a.

Original Combination: *P[apilio]. alexiaries garcia*

Type Locality: "Monterrey, San Luis Potosi" [Mexico]

Types: Syntypes in BMNH.

Recorded from Texas by Grishin and A. Warren (2004), News Lepid. Soc. 46(3): 75, 83, 15 figs. Various recent authors (e.g. Tyler *et al.* (1994), Swallowtail Butterflies Am.: 33, Llorente *et al.* (1996), Biodivers. Taxon. Biogeogr. Artrop. Méx.: 545, (1997), Pap. Pier. Méx.: 8, 15, 51, 137, 162, 198, and Lamas (2004c), Atl. Neotrop. Lepid. Chcklst. Part 4A: 97) have considered *alexiaries* and *garcia* to be subspecies of *P. glaucus*; however, relationships between these taxa require further elaboration.

321. ***Papilio rutulus*** Lucas, 1852

Revue Mag. Zool. (2)4(3): 138-140.

Original Combination: *Papilio Rutulus*

Type Locality: "Californie"; defined as "vicinity of Queen Lily Campground, near Belden, North Fork Feather River, 2400', Plumas County, California" by J. Emmel *et al.* (1998) Syst. W. N. Am. Butterflies (3): 78.

Types: Lectotype in MNHP, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (3): 78, figs. 4 ♂ D, 5 ♂ V.
= ‡*rutulus* Boisduval, 1852

Annls. Soc. Entomol. Fr. (2)10(2): 279-280, no. 1

Original Combination: *Papilio rutulus*

Type Locality: "Californie" implied from the title of the paper.

Types: Syntypes in USNM.

Preoccupied by *Papilio rutulus* Lucas, 1852, Revue Mag. Zool. (2)4(3): 138-140.

= *arizonensis* W. H. Edwards, 1883

Papilio 3(1): 3-4; figured by W. H. Edwards (1884), Butterflies N. Am. 2(13): pl. *Papilio* 13, figs. 5 ♂ D, 6 ♂ V.

Original

Combination: [*Papilio*] *Rutulus* var. *Arizonensis*

Type Locality: "Arizona and South Colorado"; stated to be "vicinity of Fort Grant, Cochise [sic!] Co., and on Graham Mountain" in the introduction to the paper. [Graham County]

Types: Lectotype in CMNH, designated by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 28, fig. 9 ♂ D&V; figured by W. Holland (1931), Butterfly Book. (rev. ed.): pl. 70, fig. 2 ♂ D.

= *ammoni* Behrens, 1887

Can. Entomol. 19(10): 199.

Original Combination: *Papilio Rutulus*, var. *Ammoni*

Type Locality: "Nevada"

Types: Location of type(s) not known, possibly in AMNH.

= ‡"*hospitonina*" Boulet & Le Cerf, 1912

Bull. Mus. Natn. Hist. Nat., Paris Suppl. [1]18(2): 25.

Original Combination: [*Papilio rutulus*]

ab. *hospitonina*

Type Locality: "États-Unis, île Vancouver" [British Columbia]

Types: "Holotype" in MNHP.

= ‡"*fannyae*" Gunder, 1927

Entomol. News 38(9): 267, pl. 5, fig. C ♂ D ("holotype").

Original Combination: *Papilio rutulus* tr. f. *fannyae*

Type Locality: "Yoncalla, Oregon" [Douglas County]

Types: "Holotype" in AMNH.

322. *Papilio eurymedon* Lucas, 1852 (1805)

Revue Mag. Zool. (2)4(3): 140-141.

Original Combination: *Papilio Eurymedon*

Type Locality: "Californie"; defined as "vicinity of Queen Lily Campground, near Belden, North Fork Feather River, 2400', Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (3): 78.

Types: Lectotype in MNHP, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (3): 78, figs. 7 ♂ D, 8 ♂ V. Wakeham-Dawson (2003), Bull. Zool. Nomen. 60(4): 311-312, established *Papilio eurymedon* Lucas 1852, as a *nomen protectum* (Code Article 23.9.2).

= ‡*antinous* Donovan, 1805

Epitome Ins. New Holland: pl. 16 and explicative page.

- Original Combination:** *Papilio Antinous*
Type Locality: "New South Wales" in error.
 [Australia]
Types: Holotype in ANIC; figured by Upton (1985), J. Lepid. Soc. 38(3): 158, fig. 2 ♂ D.
 This name was discovered as a senior synonym of *P. eurymedon* by Upton (1985) *ibid.* However, Wakeham-Dawson (2003), Bull. Zool. Nomen. 60(4): 311-312, established *Papilio antinous* Lucas 1852, as a *nomen oblitum* (Code Article 23.9.2).
- = ‡*eurymedon* Boisduval, 1852
 Annls. Soc. Entomol. Fr. (2)10(2): 280-281, no. 2
Original Combination: *Papilio eurymedon*
Type Locality: "Californie" implied from the title of the paper.
Types: Syntypes in USNM.
 Preoccupied by *Papilio eurymedon* Lucas, 1852, Revue Mag. Zool. (2)4(3): 140-141.
- = *albanus* C. Felder & R. Felder, 1865
 Reise Novara Zool. (1): 93-94, no. 71.
Original Combination: *Papilio Albanus*
Type Locality: "California"; defined as "Queen Lily Campground, near Belden, North Fork Feather River Canyon, 2400' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies: 88.
Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (3): 88, figs., 1 ♂ D, 2 ♂ V.
 This taxon was listed without a description or indication by C. Felder and R. Felder (1864), Verh. zool.-bot. Ges. Wien 14: 314, no. 349; a *nomen nudum*.
- = ‡"subnigrata" Schultz, 1908
 Entomol. Z. 22(23): 92.
Original Combination: *Papilio eurymedon* ab. (nov.) *subnigrata*
Type Locality: Not stated.
Types: Location of "type" not known.
- = ‡"cocklei" Gunder, 1925
 Entomol. News 36(7): 200, no. 12, pl. 5, fig. 12 ♂ D ("holotype").
Original Combination: *Papilio eurymedon* form *albanus* ab. ♂ *cocklei*
Type Locality: "Kaslo, British Columbia, Canada"
Types: "Holotype" in AMNH; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 1, fig. 1 ♂ D.
- = ‡"columbiana" Gunder, 1927
 Entomol. News 38(9): 267-268, pl. 5, fig. D ♂ D ("holotype").
Original Combination: *Papilio eurymedon* form *albanus* tr. f. *columbiana*
Type Locality: "Kaslo, British Columbia, Canada"
Types: "Holotype" in AMNH.
 ‡"lewisii" W. F. Kirby, 1884
 Papilio 4(5-6): 104.
Original Combination: *Papilio Lewisii* (Peale manuscript)
 This taxon is either a *nomen nudum* or an unjustified replacement name.

323. **Papilio multicaudata** W. F. Kirby, 1884
- a. **Papilio multicaudata multicaudata** W. F. Kirby, 1884
Papilio 4(5-6): 104.
Original Combination: *Papilio Multicaudata*
 Proposed to replace *Papilio daunus* Boisduval, 1836,
 with the same data (Code Article 60.3).
 = ~~†~~*daunus* Boisduval, 1836
 Spec. gén. Lépid. 1: 342, no. 182.
Original Combination: *Papilio Daunus*
Type Locality: "Mexique"
Types: Lectotype in MNHP, designated by
 Austin and J. Emmel (1998), Syst. W. N. Am.
 Butterflies (53): 692-693.
 Preoccupied by *Papilio daunus* Cramer, 1777,
 Uitl. Kapellen 2(11): 44, pl. 126, fig. F; (16): 148
 (index).
 = ~~†~~"ragani" W. Barnes, 1928
 Pan-Pac. Entomol. 5(1): 5.
Original Combination: *Papilio daunus*
ragani ab. nov.
Type Locality: "Baboquivari Mountains,
 Arizona" [Pima County]
Types: "Holotype" in USNM.
- b. **Papilio multicaudata pusillus** Austin & J. Emmel, 1998
 Syst. W. N. Am. Butterflies (54): 694-695, figs. 9 ♂ D, 10
 ♂ V (holotype); 11 ♀ D, 12 ♀ V.
Original Combination: *Papilio multicaudatus pusillus*
Type Locality: "Nevada: Elko County; north end of
 Independence Mountains (Bull Run Mountains), Nevada
 State Route 11A, 6.7 road miles east (= northeast) of
 Nevada State Route 226, 1800-2000 m, T43N R52E S2,
 3, 10, 15, 16, 21 and T44N R52E S35, 36 on USGS Bull
 Run, Nev. 15' quadrangle"
Types: Holotype in MGCL.
- *324. **Papilio garamas** (Geyer, [1829])
In: Hübner, Samml. exot. Schmett. 3: pl. [20], 3 ♀ D, 4 ♀ V.
Original Combination: *Euphroeades Garamas*
Type Locality: "Mexico"
Types: Type(s) probably lost.
 = *asclepius* (Geyer, [1829])
In: Hübner, Samml. exot. Schmett. 3: pl. [22], 1 ♂ D, 2 ♂
 V.
Original Combination: *Heraclides Asclepius*
Type Locality: "Mexico"
Types: Type(s) probably lost.
 The relative precedence
 of *garamas* over *asclepius* follows Lamas (2004c), Atl.
 Neotrop. Lepid. Chcklst. Part 4A: 97.
 = *cincinnatus* Boisduval, 1836
 Spec. gén. Lépid. 1: 346, no. 186.
Original Combination: *Papilio Cincinnatus*
Type Locality: "Mexique"
Types: Holotype may be in MNHP or BMNH.
 = ~~†~~"amisa" (Rothschild & Jordan, 1906)
 Novit. Zool. 13(3): 646, no. 117ba'.
Original Combination: [*Papilio garamas garamas*]
 ♀ f. *amisa*

Type Locality: "West Mexico: Guadalajara, Cuernavaca, Oaxaca"; lectotype from "Cuernavaca." [Morelos]

Types: "Lectotype" in BMNH, designated by Tyler *et al.* (1994), Swallowtail Butterflies Am.: pl. 95, fig. E ♀ D.

- = ‡"homeroideus" Draudt, 1931
Entomol. Rdsch. 48(9): 103.

Original Combination: *Papilio garamas* ab. *homeroideus* ♀ ab. nov

Type Locality: "Hauptstadt Mexiko" [D. F., Mexico]

Types: "Holotype" possibly in MTD (Draudt collection).

- = ‡"splendida" Beutelspacher, 1976
Revta Soc. Méx. Lepid. 2(2): 65, fig. 5 ♂ D, front cover ♂ D.

Original Combination: *Papilio*

garamas forma *splendida*

Type Locality: "Atlixco, Pue....Izúcar de Matamoros, Pue." [Puebla, Mexico]

Types: "Syntypes" in Velázquez and de la Maza collections.

- = ‡"ampliata" Beutelspacher, 1976
Revta Soc. Méx. Lepid. 2(2): 65, fig. 6 ♂ D ("holotype").

Original Combination: *Papilio*

garamas forma *ampliata*

Type Locality: "Zimapán, Hgo." [Hidalgo, Mexico]

Types: "Holotype" in Velázquez collection.

- = ‡"diazii" Beutelspacher, 1976
Revta Soc. Méx. Lepid. 2(2): 65, fig. 7 ♂ D ("holotype").

Original Combination: *Papilio garamas* ab. *diazii*

Type Locality: "Tepoztlán, Mor." [Morelos, Mexico]

Types: "Holotype" in Velázquez collection.

- a. ***Papilio garamas abderus*** Höpffer, 1856
Neue Schmett.: [1], no. 1, pl. 1, figs. 1 ♂ D, 2 ♂ V.
Original Combination: *Papilio Abderus*
Type Locality: "Mexico"
Types: Type(s) may be in ZMHB.
Recorded from Texas by Bordelon and Knudson (2000),
News Lepid. Soc. 42(1): 7, pl. 1, fig. 1.

- = ‡"amerias" (Rothschild & Jordan, 1906)
Novit. Zool. 13(3): 646, no. 117ab'.

Original Combination: [*Papilio garamas abderus*] ♀ f. *amerias*

Type Locality: "Eastern Mexico: Vera Cruz"; lectotype from "Orizaba, Veracruz, Mexico."

Types: "Lectotype" in BMNH, designated by Tyler *et al.* (1994), Swallowtail Butterflies Am.: pl. 95, fig. I ♀ D.

325. ***Papilio victorinus*** E. Doubleday, 1844

- a. ***Papilio victorinus victorinus*** E. Doubleday, 1844
Ann. Mag. Nat. Hist. (1)14(93): 418; figured by G. Gray [1853], Cat. Lepid. Ins. Brit. Mus.: 35, no. 69, pl. 6, fig. 3 ♀ D&V.
Original Combination: *P[apilio]. Victorinus*
Type Locality: "west coast of America" in error.

Types: Holotype in BMNH.

Recorded from Texas by Adams (1984), J. Lepid. Soc. 37(4): 318.

= *helleri* C. Felder & R. Felder, [1865]
Reise Novara Zool. (1): 91-92, no. 70, pl. 13, figs. c ♂ D, d ♂ V.

Original Combination: *Papilio Helleri*

Type Locality: "Mexico"

Types: Holotype in BMNH; figured by Tyler *et al.* (1994), Swallowtail Butterflies Am.: pl. 98, fig. F ♀ D. This taxon was listed without a description or indication by C. Felder and R. Felder (1864), Verh. zool.-bot Ges. Wien 14: 313, no. 336; a *nomen nudum*.

= *amphissus* Höpffer, 1866
Stettiner Entomol. Ztg. 27(1-3): 27-28, no. 8.

Original Combination: [*Papilio*] *Amphissus*

Type Locality: "Mexico"

Types: Type(s) may be in ZMHB.

= ‡*eritromaculata* Beutelspacher, 1976
Revta. Soc. Méx. Lepid. 2(2): 65.

Original Combination: *Papilio victorinus* form fem. *eritromaculata*

Type Locality: "Cerro El Vigía, Santiago Tuxtla, Ver....Chiltepec, Oax." [Mexico]

Types: "Syntypes" in UNAM and de la Maza collection.

326. ***Papilio pilumnus*** Boisduval, 1836
Spec. gén. Lépid. 1: 340-341, no. 181.

Original Combination: *Papilio pilumnus*

Type Locality: "Mexique"

Types: Holotype probably in BMNH or MNHP.

327. ***Papilio troilus*** Linnaeus, 1758

a. ***Papilio troilus troilus*** Linnaeus, 1758
Syst. Nat. (ed. 10) 1: 459, no. 5.

Original Combination: *P[apilio]. E[ques] Trojanus*. *Troilus*

Type Locality: "in Indiis" in error; suggested to be "lower Delaware River" by F. Brown (1968), J. Lepid. Soc. 22(2): 81; neotype from "Charleston Co., SC, visc. [sic.] Middleton Place Plantation." [South Carolina]

Types: Type(s) apparently lost, as noted by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 388-389; neotype in MGCL, designated by Gatrell (2000), Tax. Rep. Int. Lepid. Surv. 2(4): 5, fig. 5 ♂ D.

= ‡*ilioneus* J. E. Smith, 1797
In: Smith & Abbot, Ins. Georgia 1: 3-4, pl. 2, figs. ♂ D, ♂ V, ♀ D, larvae, pupa.

Original Combination: *Papilio Ilioneus*

Type Locality: "Georgia" implied from the title of the work; neotype from "River Road, Burke County, GA."

Types: Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are presumed lost. Neotype in MGCL, designated by Gatrell (2000), Tax. Rep. Int. Lepid. Surv. 2(4): 3-4, fig. 4 ♂ D.

- Preoccupied by *Papilio illioneus* Cramer, 1775, Uitl. Kapellen 1(5): 81-82, pl. 52, fig. A; (8): 153 (index).
- = *radiatus* Strecker, 1900
Lepid. Rhop. Het. (suppl. 3): 17.
Original Combination: *Papilio troilus* var. *radiatus*
Type Locality: "Washington, D.C.; Allegheny Co., Pennsylvania"
Types: Syntypes in FMNH.
- = ‡"texanus" Ehrmann, 1900
Can. Entomol. 32(11): 348.
Original Combination: *Papilio troilus*, Var. *Texanus* ♂, nov. var.
Type Locality: "Houston, Texas"; suggested to be "Florida" by Tyler *et al.* (1994), Swallowtail Butterflies Am.: 306, pl. 93 legend.
Types: "Holotype" in CMNH.
The text clearly indicates that this taxon was described as an individual variant.
- = ‡"anethi" Fabricius, 1938
In: Bryk, Syst. Glossat.: 21, no. 11; cited *Papilio troilus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 459, no. 5.
Original Combination: *P[apilio]. T[rojanus]. Anethi*
Proposed as a replacement name for *Papilio troilus* Linnaeus, 1758, based on a foodplant name; a junior objective synonym of *Papilio troilus*.
- = ‡"flava" Dufrane, 1946
Bull. Annls. Soc. Entomol. Belg. 82(5/6): 115.
Original Combination: *P[apilio]. t[roilus]. troilus* ab. *flava*
Type Locality: "Pocono Monta, Pa., E. U. A." [Pocono Mountains, NE Pennsylvania]
Types: "Holotype" may be in MRAC.
- = ‡"addenda" Dufrane, 1946
Bull. Annls. Soc. Entomol. Belg. 82(5/6): 115.
Original Combination: [*Papilio troilus troilus*] ab. *addenda*
Type Locality: "Pocono Monta, Pa., E. U. A." [Pocono Mountains, NE Pennsylvania]
Types: "Holotype" may be in MRAC.
- = ‡"obliterata" Dufrane, 1946
Bull. Annls. Soc. Entomol. Belg. 82(5/6): 116.
Original Combination: [*Papilio troilus troilus*] ab. *obliterata*
Type Locality: "E. U. A., sans localité précise"
Types: "Holotype" may be in MRAC.
- = ‡"berioi" Dufrane, 1946
Bull. Annls. Soc. Entomol. Belg. 82(5/6): 115.
Original Combination: [*Papilio troilus troilus*] ab. *berioi*
Type Locality: "Pocono Monta, Pa., E. U. A." [Pocono Mountains, NE Pennsylvania]
Types: "Holotype" may be in MRAC.
- b. *Papilio troilus fakahatcheensis* (Gatrelle, 2000)

Tax. Rep. Int. Lepid. Surv. 2(4): 10-11, figs. 8 ♂ D (holotype), 10 ♂ V, 11 ♂ D.

Original Combination: *Pterourus troilus fakahatcheensis*

Type Locality: "Florida: Collier County, visc. [sic!] Copeland"

Types: Holotype in MGCL.

328. Papilio palamedes Drury, 1773

a. Papilio palamedes palamedes Drury, 1773

Ill. Nat. Hist. 1: 37-38, pl. 19, figs. 1 ♂ D, 2 ♂ V (1770); 2: index (1773, name given).

Original

Combination: *Pap[ilio]. Equ[es]. Ach[ivus]. Palamedes*

Type Locality: "Carolina"

Types: Type(s) probably lost or unidentifiable.

= *chalcas* Fabricius, 1775

Syst. Entomol.: 453, no. 44.

Original

Combination: *P[apilio]. E[ques]. A[chivus]. Chalcas*

Type Locality: "America"

Types: Syntypes in HMUG.

Fabricius (1793), Entomol. Syst. 3(1): 31, no. 90, implied this synonymy.

b. Papilio palamedes leontis Rothschild & Jordan, 1906

Novit. Zool. 13(3): 599, no. 86b.

Original Combination: *Papilio palamedes leontis*

Type Locality: "Monterrey, Mexico" [Nuevo León]

Types: Holotype in BMNH.

Recorded from southern Texas by H. Freeman (1951) Field & Lab. 19(1): 32.

Family PIERIDAE Swainson, 1820

Zool. Illustr. (1)1(3): pl. 15, unnumbered text. Type-genus: *Pieris* Schrank 1801, Fauna boica 2(1): 152, no. 198. I.C.Z.N. *Opinion* 278 placed *Pieris* on the *Official List of Generic Names in Zoology* as name no. 704. I.C.Z.N. *Direction* 112 gave Pieridae precedence over Coliadinae whenever their type genera are considered to be in the same family-group taxon. I.C.Z.N. *Opinion* 500 placed Pieridae on the *Official List of Family-Group Names in Zoology* as name no. 206, placed Pierides on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* as name no. 238, placed Pieridina Herrich-Schäffer, 1853, Lep. exot. Spec. nov.: 54, on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* as name no. 239, and placed Pierididae Reuter, 1896, on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* as name no. 240. The "Official List" must be corrected as the authorship for Pieridae is listed as Duponchel, [1835], in: Godart, Hist. Nat. Lépid. Fr. Suppl. 1(22): 381. Swainson's application of the name was much earlier. The higher-level arrangement of the family adopted largely follows Braby *et al.* (2006), Zool. J. Linn. Soc. 147(2): 239–275.

Subfamily Dismorphiinae Schatz, 1886

In: Staudinger & Schatz, Exot. Schmett. 2(2): 56, 57 (as "Dismorphiden"). Type-genus: *Dismorphia* Hübner, 1816, Verz. bekannt. Schmett. (1): 10.

Genus Enantia Hübner, [1819]

Verz. bekannt. Schmett. (7): 96. Type-species: *Papilio licinia* Cramer, 1777, Uitl. Kapellen 2(13): 90, pl. 153, figs. E, F; (16): 149 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci. 10(2): 162, no. 376. See Llorente (1984), Folia Entomol. Méx. 58: 3-206, for a revision of the genus.

= *Licina* Swainson, 1820

Zool. Illustr. (1)1(3): pl. 15, unnumbered text. Type-species: *Papilio melite* Linnaeus, 1763, in: Johansson, Cent. Ins. Rar.: 20, no. 56, by original designation.

329. **Enantia albania** (H. Bates, 1864)
 a. **Enantia albania albania** (H. Bates, 1864)
 Entomol. Mon. Mag. 1(1): 6, no. 10.
Original Combination: *Leptalis albania*
Type Locality: "Guatemala. Motagua Valley"
Types: Holotype in BMNH.
 = *mita* (Reakirt, [1867])
 Proc. Acad. Nat. Sci. Philad. 18(5): 340, no. 49.
Original Combination: *Leptalis mita*
Type Locality: "Mexico, near Vera Cruz" [Veracruz]
Types: Syntype in CMNH.
 = ‡"immaculata" (Hoffmann, 1940)
 An. Inst. Biol. Univ. Méx. 11(1): 277, fig. 2 ♂ D, ♀ D.
Original Combination: *Dismorphia* (*Enantia*) *amalia* forma *immaculata*
Type Locality: "Córdoba, Ver." [Veracruz, Mexico]
Types: "Holotype" in AMNH.

Subfamily **Coliadinae** Swainson, 1821

Zool. Illustr. (1)1(4): pl. 22, unnumbered text (as "Coliadae"). Type-genus: *Colias* [Fabricius], 1807, Mag. f. Insektenk. 6: 284, no. 24. I.C.Z.N. *Direction* 99 placed Coliadinae on the *Official List of Family-Group Names in Zoology* as name no. 227. The same *Direction* placed Coliana on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 265. I.C.Z.N. *Opinion* 146 placed *Colias* on the *Official List of Generic Names in Zoology* as name no. 572.

Genus **Kricogonia** Reakirt, [1864]

Proc. Entomol. Soc. Philad. 2(3): 355. Type-species: *Colias lyside* Godart, 1819, in: Ency. méth. 9(Ins.)(1): 98, no. 30, by original designation.

330. **Kricogonia lyside** (Godart, 1819)
 In: Ency. méth. 9(Ins.)(1): (87), 98, no. 30.
Original Combination: *Colias Lyside*
Type Locality: Not stated; defined as "Haiti" by N. Riley (1975), Field Guide Butterflies W. Indies: 131.
Types: Lectotype in MNHP, designated by Lamas (1993), Shilap Revta. Lepid. 21(83): 154, no. 125.
 N. Riley (1972), J. Lepid. Soc. 26(4): 228, determined that the historical use of the name *castalia* for this species was based on misdeterminations. The original description of *castalia* referred to the figure of *Glutophrissa drusilla* in Jones' Icones."
 = *terissa* (Lucas, 1852)
 Revue Mag. Zool. (2)4(9): 429.
Original Combination: *Rhodocera Terissa*
Type Locality: "Saint-Domingue et la Jamaïque"
Types: Syntypes in MNHP.
 = ‡*terissa* (Boisduval, 1870)
 Consid. Lépid. Guat.: 10.
Original Combination: [*Rhodocera Lyside*] *Terrissa*
Type Locality: "Mexique...Guatemala"
Types: Type(s) should be in MNHP or BMNH.
 Preoccupied by *Rhodocera terissa* Lucas, 1852, Revue Mag. Zool. (2)4(9): 429.
 = *fantasia* Butler, 1871

- Trans. Entomol. Soc. Lond. (4)1871(2): 170, pl. 7, fig. 6
♀ D.
Original Combination: *Kricogonia Fantasia*
Type Locality: "Nicaragua"
Types: Syntype in BMNH.
- = *lanice* Lintner, [1885]
Papilio 4(7/8): 138-130, no. 11.
Original Combination: *Kricogonia Lanice*
Type Locality: "Brownsville, Texas...Hidalgo...Lomita Ranch" implied from the introduction to the paper.
[Cameron and Hidalgo counties]
Types: Syntype (#5861) in NYSM and ANSP.
This name was listed without a description or indication
by W. H. Edwards (1884), Trans. Am. Entomol. Soc.
11(3/4): 262, no. 60; a *nomen nudum*.
- = *unicolor* Godman & Salvin, 1889
Biol. centr.-amer., Lepid. Rhop. 2(79): 151, no. 2.
Original Combination: *Kricogonia unicolor*
Type Locality: "Guatemala, San Gerónimo...Haiti;
Jamaica"
Types: Syntypes in BMNH.
- = *xanthophila* Röber, 1909
In: Seitz, Grossschmett. Erde 5(29): 89; (41) pl. 26d, fig.
[4] ♀ D.
Original Combination: [*Kricogonia*
lyside] *xanthophila* form nov.
Type Locality: "Guatemala"
Types: Lectotype in MTD, designated by Lamas (1995),
Shilap Revta. Lepid. 23(91): 344.
- = *occidentalis* S. Torre, 1988
Revta. Biol. (La Habana) 2(2): 57.
Original Combination: *Kricogonia lyside occidentalis*
Type Locality: "Varadero y en otras regiones de la parte
occidental de Cuba"
Types: Syntypes in IZAC, AMNH and ANSP.
‡"anorbus" Scott, 1981
Papilio (n.s.) 1: 3.
Original Combination: *Kricogonia lyside* female
form *anorbus*
Proposed as a "form" with no nomenclatural
standing; a *nomen nudum*.

Genus **Nathalis** Boisduval, 1836

Spec. gén. Lépid. 1: 589. Type-species: *Nathalis iole* Boisduval, 1836, Spec. gén. Lépid. 1: 589, no. 9, by monotypy.

331. **Nathalis iole** Boisduval, 1836

a. **Nathalis iole iole** Boisduval, 1836

Spec. gén. Lépid. 1: 589-590, no. 1.

Original Combination: *Nathalis iole*

Type Locality: "Mexique"

Types: Syntypes in MNHP.

= *felicia* Poey, [1852]

Mem. Hist. Nat. Cuba 1: pl. 18, figs. 18 ♂ V, 19 ♂ D,
20 ♀ D, 21 ♀ V [Oct 1852]; 443-444, no. 14 [Jun
1854].

Original Combination: *Nathalis Felicia*

Type Locality: "Habana...Cárdenas" [Cuba]

Types: Type(s) probably in MNHC; a possible syntype in ZMHB.

- = *irene* Fitch, 1857
Trans. N. Y. State Agric. Soc. 16(1856): 485-486, no. 212.

Original Combination: *Nathalis Irene*

Type Locality: "valley of the Mississippi"; J. Barnes (1988), Bull. N. Y. St. Mus. (461): 112, no. 333, noted that Fitch's original specimen was labeled "Tullehassie, AR. [sic!]" [Tallahassee, Wagoner County, Oklahoma]

Types: Holotype (#2717) either lost or destroyed; J. Barnes (1988), *ibid.*, determined that there are no extant specimens in the NYSM.

- = *luteolus* Reakirt, [1864]
Proc. Entomol. Soc. Philad. 2(3): 350-351, no. 2.

Original Combination: *N[athalis]. luteolus*

Type Locality: "Honduras"

Types: Syntype in FMNH.

- = ♀ "pallida" W. D. Field, 1936
J. Entomol. & Zool. 28(2): 20.

Original Combination: *Nathalis iole* tr. f. *pallida*

Type Locality: "Lawrence, Kansas" [Douglas County]

Types: "Holotype" in USNM.

- = ♀ "immaculata" W. D. Field, 1936
J. Entomol. & Zool. 28(2): 20.

Original Combination: *Nathalis iole* form *immaculata*

Type Locality: "Lawrence, Kansas" [Douglas County]

Types: "Holotype" in USNM.

- = ♀ "albida" Avinoff & Shoumatoff, 1941
Ann. Carnegie Mus. 28(15): 309-310, pl. 36, figs. 1 ♂ D&V, 2 ♀ D.

Original Combination: *Nathalis iole* ab. *albida*

Type Locality: "an isolated elevation of over 3,000 feet called Low River, or All Sides, in Trelawny" [Jamaica]

Types: Types in CMNH.

- = ♀ "viridis" Whittaker & D. Stallings, 1944
Entomol. News 55(4): 92.

Original Combination: *Nathalis iole* f. *hiem. viridis*

Type Locality: "Caldwell, Kansas" [Sumner County]

Types: "Holotype" in USNM.

- = ♀ "alayoi" S. Torre, 1951
Mems. Soc. Cubana Hist. Nat. 20(2): 89, pl. 44, fig. 2 ♂ D (holotype).

Original Combination: [*Nathalis iole*] [form] *alayoi*

Type Locality: "500m del Castillo Peñas Altas, Playa de Bellamar, Matanzas" indicated in the legend to the plate. [Cuba]

Types: "Holotype" (#2767) in IZAC.

Genus **Eurema** Hübner, [1819]

Verz. bekannt. Schmett. (7): 96. Type-species: *Papilio delia* Cramer, 1780, Uitl. Kapellen 3(23): 144, pl. 273, fig. A; 3(24): 174 (index) (= *Pieris दौरα* Godart, 1819, in: Ency. méth. 9(Ins.)(1): (109), 137, no. 59; homonym), by designation of Butler (1870), Cist. Entomol. 1(3): 35.

= ‡*Heurema* Agassiz, 1846

Nomencl. zool. (4to ed.)(12)(index univ.): 181. An unjustified emendation of *Eurema* Hübner, [1819].

= *Lucidia* Lacordaire, 1833

Annls. Soc. Entomol. Fr. [1]2: 387. Type-species: *Papilio albula* Cramer, 1775, Uitl. Kapellen 1(3): 43, pl. 27, fig. E; (8): 151 (index), by monotypy.

= *Sphaenogona* Butler, 1870

Cist. Entomol. 1(3): 35, no. 15; 44, no. 15. Type-species: *Terias bogotana* C. Felder & R. Felder, 1861, Wien. Entomol. Montaschr. 5(3): 84, no. 41 (= *Terias mexicana* Boisduval, 1836, Spec. gén. Lépid. 1: 655, pl. 19 [=3C], fig. 1; subspecies), by designation of W. F. Kirby (1896), in: Allen, Nat. Libr. Lepid. 2: 230.

332. **Eurema दौरα** (Godart, 1819)

a. **Eurema दौरα sidonia** (R. Felder, 1869)

Verh. zool.-bot. Ges. Wien 19: 465-466, no. 2.

Original Combination: *Terias Sidonia*

Type Locality: "Campeche" [Mexico]

Types: Syntypes in BMNH and NHMW.

= *cepio* (Godman & Salvin, 1889)

Biol. centr.-amer., Lepid. Rhop. 2(80): 169, no. 18; 3(80): pl. 64, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.

Original Combination: *Terias Cepio*

Type Locality: "Mexico, Mazatlan...Presidio...Acapulco...Tepetlapa, Cuernavaca...Patzcuaro...Puebla, Orizaba...Cordova...Atoyac"; figured specimens from "Tepetlapa, in the State of Guerrero, at an altitude of 3000 feet."

Types: Syntypes in BMNH.

b. **Eurema दौरα दौरα** (Godart, 1819)

In: Ency. méth. 9(Ins.)(1): (109), 137, no. 59; cited *Papilio delia* Cramer, 1780, Uitl. Kapellen 3(24): pl. 273, fig. A, and Herbst (1792), in: Jablonsky, Natursyst. Ins., Schmett. 5: pl. 117, fig. 7.

Original Combination: *Pieris दौरα*

Proposed to replace *Papilio delia* Cramer, 1780, preoccupied, with the same data (Code Article 60.3). Klots (1929), Entomol. Am. (n.s.) 9(3): 125, made a first reviser choice of *daura* *overdemoditas*; Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 182, concurred.

= ‡*delia* (Cramer, 1780)

Uitl. Kapellen 3(23): 144, pl. 273, fig. A ♂ D; 3(24): 174 (index).

Original Combination: *Pap[ilio]. Dan[aus]. Cand[idus]. Delia*

Type Locality: "Virginiën" "Virginie"

Types: Syntype (#665101) in BMNH; figured by Chainey (2005), Zool. J. Linn. Soc. 145(3): fig. 29 ♂ D.

- Preoccupied by *Papilio delia* [Denis & Schiffermüller], [1775], Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 179, no. 6.
- = ‡*demoditas* Hübner, [1819]
Verz. bekannt. Schmett. (7): 96, no. 1016;
cited *Papilio delia* Cramer, 1780, Uitl. Kapellen 3(24): pl. 273, fig. A; (24): 176 (index).
Original Combination: *Eurema Demoditas*
Proposed to replace *Papilio delia* Cramer, 1780, preoccupied; a junior objective synonym of *Pieris दौरα* Godart, 1819, by first reviser choice.
- = *jucunda* (Boisduval & Le Conte, [1830])
Hist. Lépid. Amér. sept. (6): 52-53 [May 1830]; (7): pl. 19, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D [Jun 1830].
Original Combination: *X[anthidia].Jucunda*
Type Locality: “dans l'Etat de New-York, dans Virginie, la Louisiane, etc.”; “Georgia” implied from John Abbot's drawing.
Types: Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost.
- = *lemnica* (C. Felder & R. Felder, 1865)
Reise Novara (2): 205, no. 213.
Original Combination: *Terias Lemnica*
Type Locality: “Brasilia Meridional: Bahia” in error. [Brazil]
Types: Syntype in BMNH.
- = ‡“fusca” L. Harris, 1931
Trans. Georgia Nat. Club 1(1): 11, no. 36, pl. (“holotype”); figured by L. Harris (1972), Butterflies Georgia: cpl. 3, fig. 5 ♀ D.
Original Combination: *Eurema jucunda* ab. *fusca*
Type Locality: “Atlanta” [Fulton County]
Types: “Holotype” in EUM.
- = ‡“delioides” Haskin, 1933
Entomol. News 44(5): 121.
Original Combination: *Eurema demoditas*, form *delioides*
Type Locality: “Auburndale, Florida” [Polk County]
Types: “Types” in USNM.
‡“alba” Scott, 1986
Butterflies N. Am.: 207, no. 59.
Original Combination: [*Eurema दौरα* ♀] form *alba*
Proposed as a “form” with no nomenclatural standing; a *nomen nudum*.
‡“rosa” Scott, 1986
Butterflies N. Am.: 207, no. 59.
Original Combination: [*Eurema दौरα*] winter form *rosa*
Proposed as a “form” with no nomenclatural standing; a *nomen nudum*.
- c. ***Eurema दौरα palmira*** (Poey, [1852])
Mem. Hist. Nat. Cuba 1: 198, no. 14 (Oct 1852); pl. 24, figs. 4 ♂ D, 5 ♂ V, 6 ♀ D (May 1853).

Original Combination: *T[erias]*. *Palmira*

Type Locality: "Cuba" implied from the title of the paper.

Types: Syntype (#7801) in ANSP.

Smith *et al.* (1982), Bull. Allyn Mus. (70): 1-8, discussed the presence of this subspecies in Florida and concluded that all populations in Florida are best considered *E. d. दौरा*; see Calhoun and Anderson (1991), J. Lepid. Soc. 45(1): 58, for notes on the occurrence of this taxon in southern Florida.

= *ebriola* (Poey, [1853])

Mem. Hist. Nat. Cuba 1: 250, no. 9, pl. 24, figs. 7 ♂ D, 8 ♂ V, 9 ♀ D, 10 ♀ D, 11 ♀ V, 12 ♀ D, 13 ♀ V.

Original Combination: *Terias Ebriola*

Type Locality: "Cárdenas...Habana" [Cuba]

Types: Syntypes (#7769, 7802) in ANSP.

= *albina* (Poey, [1853])

Mem. Hist. Nat. Cuba 1: 251-252, no. 10, pl. 24, figs. 14 ♂ D, 15 ♂ V, 16 ♀ D.

Original Combination: *Terias Albina*

Type Locality: "Cuba" implied from the title of the paper.

Types: Syntype (#7803) in ANSP.

= *†cubana* Herrich-Schäffer, 1865

Corresp.-Bl. zool.-min. Ver. Regensb. 18(11/12): 166, no. 6.

Original Combination: [*Terias*] *cubana*

Proposed as a replacement name for *Terias albina* Poey [1853], erroneously thought preoccupied.

d. **Eurema दौरा eugenia** (Wallengren, 1860)

Wien. Entomol. Montaschr. 4(2): 33-34, no. 2.

Original Combination: *Terias eugenia*

Type Locality: "Insula St. Joseph" [Isla San José, Archipiélago de las Perlas, Panama]

Types: Syntype in NHRS.

= *solana* (Reakirt, 1866)

Proc. Acad. Nat. Sci. Philad. 18(3): 240, no. 6.

Original Combination: *Terias solana*

Type Locality: "Mexico (near Vera Cruz)" [Veracruz]

Types: Syntype in FMNH.

= *persistens* (Butler & H. Druce, 1872)

Cist. Entomol. 1(5): 110.

Original Combination: *T[erias]*. *Persistens*

Type Locality: "Cartago, Costa Rica" implied from the title and introduction to the paper.

Types: Syntypes in BMNH.

= *†pallidula* Klots, 1929

Entomol. Am. (n.s.) 9(3): 125, pl. 1, fig. 8 ♀ D ("holotype").

Original Combination: [*Eurema jucunda*] f.

♀ *pallidula*

Type Locality: "Barrios, Guatemala"

Types: "Holotype" in AMNH.

333. **Eurema boisduvaliana** (C. Felder & R. Felder, 1865)

Reise Novara (2): 200, under no. 203.

Original Combination: *T[erias]*. *Boisduvaliana*

Type Locality: "Mexico"

Types: Holotype should be in MNHP or BMNH.

Proposed for the ♂ of *Terias mexicana* Boisduval, 1836, Spec. gén. Lépid. 1: 655.
Lamas (2004), Atl. Neotrop. Lepid. Chcklst. Part 4A: 106, treated *boisduvaliana* as a subspecies of *Eurema arbela* Geyer, 1832, in: Hübner, Zutr. Samml. exot. Schmett. 4: pl [111], figs. 615 ♀ D, 616 ♀ V [1826]; (text): 14, no. 321 (1832, name given). This possibility remains to be thoroughly investigated.

= *ingrata* (R. Felder, 1869)

Verh. zool.-bot. Ges. Wien 19: 465, no. 1.

Original Combination: *Terias ingrata*

Type Locality: "Potrero" [Veracruz, Mexico]

Types: Syntypes in NMW and BMNH.

‡"rosa" Scott, 1986

Butterflies N. Am.: 207, no. 57.

Original Combination: [*Eurema boisduvaliana*]

winter form *rosa*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

334. ***Eurema mexicana*** (Boisduval, 1836)

a. ***Eurema mexicana mexicana*** (Boisduval, 1836)

Spec. gén. Lépid. 1: 655, no. 3, pl. 19 [= 3C], fig. 1 ♀ D.

Original Combination: *Terias Mexicana*

Type Locality: "Mexique"

Types: Type(s) should be in MNHP or BMNH.

Boisduval described *mexicana* from a mixed series; the name was restricted to Boisduval's ♀ by C. Felder and R. Felder (1865), Reise Novara (2): 200.

= *damaris* (C. Felder & R. Felder, 1865)

Reise Novara (2): 198, no. 200.

Original Combination: *Terias Damaris*

Type Locality: "Mexico"

Types: Holotype in BMNH.

= *depuiseti* (Boisduval, 1870)

Consid. Lépid. Guat.: 11-12.

Original Combination: *Terias Depuiseti*

Type Locality: "Honduras...Mexique"

Types: Syntype in USNM.

= *biedermanni* (Ehrmann, 1925)

Bull. Brooklyn Entomol. Soc. 20(2): 84.

Original Combination: *Eurema biedermanni*

Type Locality: "Palmerlee, Arizona" [Cochise County]

Types: Holotype in CMNH; figured by Holland (1927), Ann. Carnegie Mus. 17(2): pl. 25, fig. 6 ♀ D.

= ‡"recta" Klots, 1929

Entomol. Am. (n.s.) 9(3): 135, pl. 3, fig. 61 ♂ D ("holotype").

Original Combination: *Eurema mexicana* ab. *recta*

Type Locality: "Texas"

Types: "Holotype" in AMNH.

= ‡"rosa" Whittaker & D. Stallings, 1944

Entomol. News 55(4): 87.

Original Combination: *Eurema mexicana* f. *heim. rosa*

Type Locality: "Caldwell, Kansas" [Sumner County]

- Types:** "Holotype" in USNM.
- *335. *Eurema salome*** (C. Felder & R. Felder, 1861)
 Wien. entomol. Monatschr. 5(3): 84, no. 42.
Original Combination: *Terias Salome*
Type Locality: "Ecuador"
Types: Type(s) should be in BMNH (Felder collection).
 = ‡"*lurida*" (d'Almeida, 1928)
 Annls. Soc. ent. Fr. 97(3/4): 373-374.
Original Combination: *Terias arbela* aberr. *arbela lurida*
Type Locality: "Tojûju, Pérou" [Peru]
Types: Holotype in UFPC.
- a. *Eurema salome jamapa*** (Reakirt, 1866)
 Proc. Acad. Nat. Sci. Philad. 18(3): 239, no. 5.
Original Combination: *Terias jamapa*
Type Locality: "Mexico (near Vera Cruz)" [Veracruz]
Types: Type(s) might be in CMNH; noted not to be in FMNH by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 89.
- *336. *Eurema albula*** (Cramer, 1775)
 Uitl. Kapellen 1(3): 43, pl. 27, fig. E ♀ D; (8): 151 (index).
Original Combination: [*Papilio*]. *Dan[aus] Cand[idus] Albula*
Type Locality: "Surinamsch" "Suriname"; "neotype" from "Crique Spariwine, mount St. Hermínio, Guiana Francesca." [French Guiana]
Types: Type(s) probably lost; d'Almeida (1945), Arq. Zool. São Paulo 4(3): 90, designated "neotypes"; Mielke and Casagrande (1985), Revta. bras. Entomol. 29(2): 328, fig. 30 ♂ D&V, designated one of these as the neotype (#2020) in UFPC. Neither of these designations are in accordance with Code Articles 75.2 and 75.3.
 Recorded from Texas by Chuah and Cushing (1995), Tropical Lepid. 6(1): 43, figs. 1, 1a.
 = ‡*cassiae* (Sepp, [1843])
 Surinaam. Vlinders [2](14): pl. 56.
Original Combination: *Papilio Cassiae*
Type Locality: "Surinam" implied from the title of the work.
Types: Type(s) are lost.
 Preoccupied by *Papilio cassiae* Linnaeus, 1758, Syst. Nat. (ed. 10): 471, no. 82.
- = *clara* (H. Bates, 1861)
 J. Entomol. 1(4): 243, no. 12.
Original Combination: *T[erias]. clara*
Type Locality: "Amazon Valley" implied from the title of the paper. [Brazil]
Types: Syntypes in BMNH.
- = *tapeina* (H. Bates, 1861)
 J. Entomol. 1(4): 244, no. 14.
Original Combination: *T[erias]. Tapeina*
Type Locality: "Pará" [Brazil]
Types: Syntypes in BMNH.
- = *melacheila* (Möschler, 1877)
 Verh. zool.-bot Ges. Wien 26: 297.
Original Combination: [*Terias*] *Melacheila*
Type Locality: "Surinam" implied from the title of the paper.

Types: Type(s) probably in ZMHB.

- a. **Eurema albula celata** (R. Felder, 1869)
Verh. zool.-bot. Ges. Wien 19: 466, no. 4.

Original Combination: *Terias celata*

Type Locality: "Potrero" [Veracruz, Mexico]

Types: Syntypes in NMW.

= *leucilla* (R. Felder, 1869)

Verh. zool.-bot. Ges. Wien 19: 466, no. 5.

Original Combination: *Terias Leucilla*

Type Locality: "Potrero" [Veracruz, Mexico]

Types: Syntypes in NMW.

Genus **Pyrisitia** Butler, 1870

Cist. Entomol. 1(3): 35, no. 17; 44, no. 17. Type-species: *Papilio proterpia* Fabricius, 1775, Syst. Entomol.: 478, no. 152, by original designation.

337. **Pyrisitia proterpia** (Fabricius, 1775)

Syst. Entomol.: 478, no. 152.

Original

Combination: *P[apilio]. D[anaus]. C[andidi]. Proterpia*

Type Locality: "Iamaica"

Types: Syntypes in HMUG.

= *gundlachia* (Poey, [1853])

Mem. Hist. Nat. Cuba 1: 246, no. 4, pl. 24, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D.

Original Combination: *Terias Gundlachia*

Type Locality: "isla de Cuba...Cárdenas"

Types: Syntype (#7770) in ANSP.

= *longicauda* (H. Bates, 1864)

Entomol. Mon. Mag. 1(2): 32, no. 13.

Original Combination: *Terias Longicauda*

Type Locality: "Guatemala, interior"

Types: Syntype in BMNH.

= *watsonia* (Klots, 1923)

Entomol. News 34(10): 301.

Original Combination: *Eurema proterpia watsonia*

Type Locality: "Rio Bamba, Ecuador, South America"

Types: Holotype in AMNH.

= *morleyi* (Coxey, 1932)

Entomol. News 43(2): 33.

Original Combination: *Eurema gundlachia* race *morleyi*

Type Locality: "Higra, 4000 feet elevation, Ecuador"

Types: Holotype (#7752) in CMNH.

= ‡"imitatrix" (d'Almeida, 1932)

Bull. Soc. Entomol. Fr. 37(3): 44.

Original Combination: *Terias proterpia* ab.

♀ *imitatrix*

Type Locality: "Guaiacorum...Colombie"

Types: "Lectotype" in UFPC, designated by Mielke and Casagrande (1985), Revta. bras. Entomol. 29(2): 325, fig. 3 ♀ D&V.

‡"atzin" (Arias, 1968)

Exp. cient. españ. siglo XVIII, Exp. Bot. Nueva España: 394.

Original Combination: *Tlotzin Atzin*

Types: Types probably never designated.

338. **Pyrisitia lisa** (Boisduval & Le Conte, [1830])
- a. **Pyrisitia lisa lisa** (Boisduval & Le Conte, [1830])
 Hist. Lépid. Amér. sept. (6): 53-55 [May 1830]; (7): pl. 19, figs. 4 ♂ D, 5 ♂ V, 6 larva, 7 pupa [Jun 1830].
Original Combination: *X[anthidia]*. *Lisa*
Type Locality: “dans les différentes parties des États-Unis”
Types: Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are presumed lost. A “type” is in USNM, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such “types” from the Boisduval collection.
 = *clappii* (Maynard, 1891)
 Man. N. Am. Butterflies: 216, appendix, no. 90a.
Original Combination: *Terias lisa clappii*
Type Locality: “Enterprise, Florida” [Volusia County]
Types: Syntype (#16607) in MCZ.
 = ♀ “alba” (Strecker, 1878)
 Butterflies & Moths N. Am., Comp. Syn. Cat.: 85, no. 76a.
Original Combination: [*Terias Lisa*] ab. a.
 ♀ *Alba*
Type Locality: Not stated.
Types: “Type(s)”, if they can be identified, may be in FMNH.
 = ♀ “immaculata” (Whittaker & D. Stallings, 1944)
 Entomol. News 55(4): 88.
Original Combination: *Eurema lisa* f. aest. *immaculata*
Type Locality: “Caldwell, Kansas” [Sumner County]
Types: “Holotype” in USNM.
- b. **Pyrisitia lisa centralis** (Herrich-Schäffer, 1865)
 Corresp.-Bl. zool.-min. Ver. Regensburg 18(11/12): 168, no. 12.
Original Combination: [*Terias*] *centralis*
Type Locality: “Guatemala”
Types: Location of type(s) not known.
339. **Pyrisitia nise** (Cramer, 1775)
- a. **Pyrisitia nise nise** (Cramer, 1775)
 Uitl. Kapellen 1(2): 31, pl. 20, figs. K ♀ D, L ♀ V; 1(8): 154 (index).
Original Combination: *Pap[ilio]*. *dan[aii]*. *Candidi Nise*
Type Locality: “Jamaica” “Jamaïque”; “neotype” from “along the road near Millbank, Portland Parish, Jamaica, B. W. I.”
Types: Neotype in RMNH, designated by Klots and Heineman (1957), Proc. R. Entomol. Soc. Lond. (B)26(11/12): 212-213, pl. 1, fig. 1 ♂ D&V.
 d’Almeida (1945), Arq. Zool. São Paulo 4(3): 90, designated “neotypes”; Mielke and Casagrande (1985), Revta. bras. Entomol. 29(2): 328, fig. 22 ♂ D&V, designated one of these, from “River Maroni, Guiana Francesca,” as the neotype (#1652) in UFPC. Neither of these designations are in accordance with Code Articles 75.2 and 75.3. The subspecific arrangement follows Smith *et al.* (1994), Butterflies W. Ind. & Fla.: 150.

- = *†neda* (Godart, 1819)
In: Ency. méth. 9(Ins.)(1): (109), 135-136, no. 54; cited *Papilio nise* Cramer, 1775, Uitl. Kapellen 1(2): pl. 20, figs. K, L; (8): 154 (index), and Herbst (1792), *in*: Jablonsky, Natursyst. Ins. 5: pl. 106, figs. 8, 9.
Original Combination: *Pieris Neda*
Proposed to replace *Papilio nise* Cramer, 1775, erroneously thought to be preoccupied; a junior objective synonym of *nise*.
- = *larae* (Herrich-Schäffer, 1862)
Corresp.-Bl. zool.-min. Ver. Regensburg 16(6-8): 120.
Original Combination: *Terias laeae*
Type Locality: "Cuba" implied from the title of the paper.
Types: Syntype (#7304) in ANSP.
- b. **Pyrisitia nise nelphe** (R. Felder, 1869)
Verh. zool.-bot. Ges. Wien 19: 466, no. 3.
Original Combination: *Terias Nelphe*
Type Locality: "Potrero" [Veracruz, Mexico]
Types: Syntypes in NMW and BMNH.
- = *venustula* (Staudinger, 1875)
Verh. zool.-bot. Ges. Wien 25: 93, no. 3.
Original Combination: *Terias (Terias) Venustula*
Type Locality: "den unteren Regionen von Chiriqui" [Panama]
Types: Syntypes in ZMHB.
- = *linda* (W. H. Edwards, 1884)
Papilio 4(3): 53.
Original Combination: *Terias Linda*
Type Locality: "Mexico, short distance from the boundary line of Arizona"; defined as "vicinity of Nogales, Sonora" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 49. [Mexico]
Types: Lectotype in USNM, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 50, fig. 9 ♂ D&V.
- *340. **Pyrisitia dina** (Poey, 1832)
Cent. Lépid. Cuba (2): [35-36], [no. 12], pl. [12], figs. [1] ♀ D, [2] ♀ V.
Original Combination: *Terias Dina*
Type Locality: "côte du Nord" [Cuba]
Types: Syntype (#7800) in ANSP.
- = *citrina* (Poey, [1852])
Mem. Hist. Nat. Cuba 1: pl. 18, figs. 4 ♂ V, 5 ♂ D, 6 ♀ D, 7 ♀ V (Oct 1852); 247-248, no. 6 (May 1853).
Original Combination: *Terias Citrina*
Type Locality: "Cuba" implied from the title of the paper.
Types: Type(s) may be lost.
- a. **Pyrisitia dina helios** (M. Bates, 1934)
Occ. Pap. Boston Soc. Nat. Hist. 8: 133-134.
Original Combination: *Eurema dina helios*
Type Locality: "New Providence (Nassau)" [Bahamas]
Types: Holotype (#19564) in MCZ.
- b. **Pyrisitia dina westwoodii** (Boisduval, 1836)
Spec. gén. Lépid. 1: 666-667, no. 22.
Original Combination: *Terias Westwoodii*

Type Locality: "Mexique"

Types: Syntypes in MNHP and BMNH.

= *calceolaria* (Butler & H. Druce, 1872)

Cist. Entomol. 1(5): 110.

Original Combination: *T[erias]*. *Calceolaria*

Type Locality: "Honduras"

Types: Syntypes in BMNH.

341. *Pyrisitia messalina* (Fabricius, 1787)

Mantissa Ins. 2: 22, no. 236.

Original

Combination: *P[apilio]*. *D[anaus]*. *C[andidus]*. *Messalina*

Type Locality: "India"; defined as "Cuba" by Klots (1929), Entomol. Am. (n.s.) 9(3): 131.

Types: Type(s) apparently lost.

Kimball (1965), Arthrop. Florida, vol. 1, Lepid. Florida: 35-36, and Calhoun (1997), Holarct. Lepid. 4(2): 44, noted that the occurrence of this species in Florida is questionable.

= *gnathene* (Boisduval, 1836)

Spec. gén. Lépid. 1: 680, no. 46.

Original Combination: *Terias Gnathene*

Type Locality: "Yucatan, Mexique" apparently in error.

Types: Syntype(s) in Roger collection, probably lost.

= *bulaea* (Boisduval, 1836)

Spec. gén. Lépid. 1: 680-681, no. 47.

Original Combination: *Terias Bulaea*

Type Locality: "Sénégal" in error; suggested to be "American" by Poey [1853], Mem. Hist. Nat. Cuba 1: 153-154, and Klots (1929), Entomol. Am. (n.s.) 9: 131, who placed this name in synonymy.

Types: Syntype in BMNH.

= *iradia* (Poey, [1852])

Mem. Hist. Nat. Cuba 1: pl. 18, figs. 14 ♂ V, 15 ♂ D, 16 ♀ D, 17 ♀ V [Oct 1852]; 253 [May 1853].

Original Combination: *Terias Iradia*

Type Locality: "Cienfuegos...Zapata, y Sabana de Guamacaro" [Cuba]

Types: Syntype (#7766) in ANSP.

= *blakei* (Maynard, 1891)

Man. N. Am. Butterflies: 216, appendix, no. 93*.

Original Combination: *Terias Blakei*

Type Locality: "on all of the Bahamas which I visited...Sandford, Florida" [Seminole County]

Types: Syntype (#16606) in MCZ.

Genus *Abaeis* Hübner, [1819]

Verz. bekannt. Schmett. (7): 97. Type-species: *Papilio nicippe* Cramer, 1779, Uitl. Kapellen 3(18): 31, pl. 210, figs. C, D; (24): 176 (index), by designation of Butler (1870), Cist. Entomol. 1(3): 35.

= ‡*Xanthidia* Boisduval & Le Conte, [1830]

Hist. Lépid. Amér. sept. (5): 48. Type-species: *Papilio nicippe* Cramer, 1779, Uitl. Kapellen 3(18): 31, pl. 210, figs. C, D; (24): 176 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 288, no. 1081. A junior objective synonym of *Abaeis* Hübner, [1819].

342. *Abaeis nicippe* (Cramer, 1779)

Uitl. Kapellen 3(18): 31, pl. 210, figs. C, D; (24): 176 (index).

Original

Combination: *Pap[ilio]. Dan[aus]. Cand[idus]. Nicippe*

Type Locality: "Virginiën" "Virginie"; "neotype" from "Arizona, EUA."

Types: Syntypes (#665378, 665379, possibly 665080) in BMNH. d'Almeida (1945), Arq. Zool. São Paulo 4(3): 90, designated "neotypes"; Mielke and Casagrande (1985), Revta. bras. Entomol. 29(2): 328, fig. 11 ♂ D&V, designated one of these, from "River Maroni, Guiana Francesca," as the neotype (#1652) in UFPC. Neither of these designations are in accordance with Code Articles 75.2 and 75.3.

= ‡"flava" (Strecker, 1878)

Butterflies & Moths N. Am., Comp. Syn. Cat. Lepid: 85, no. 68a.

Original Combination: [*Terias Nicippe*] ab. a. ♂

♀ *Flava*

Type Locality: Not stated.

Types: "Syntypes" in FMNH.

= ‡"dammersi" (Gunder, 1930)

Bull. South. Calif. Acad. Sci. 29(2): 52, no. 40, pl. 19

♀ D ("holotype").

Original Combination: *Eurema nicippe* tr.

f. *dammersi*

Type Locality: "San Bernardino, California" [San Bernardino County]

Types: "Holotype" in AMNH.

= ‡"callae" (W. D. Field, 1936)

J. Entomol. & Zool. 28(2): 20.

Original Combination: *Eurema nicippe* tr. f. *callae*

Type Locality: "Donna, Texas" [Hidalgo County]

Types: "Holotype" in USNM.

= ‡"pallens" (Whittaker & D. Stallings, 1944)

Entomol. News 55(4): 88.

Original Combination: *Eurema nicippe* f.

aest. *pallens*

Type Locality: "Caldwell, Kansas" [Sumner County]

Types: "Holotype" in USNM.

‡"rosa" (Scott, 1986)

Butterflies N. Am.: 206, no. 55.

Original Combination: [*Eurema nicippe* winter form] *rosa*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

Genus Colias [Fabricius], 1807

In: Illiger, Mag. f. Insektenk. 6: 284, no. 24. Type-species: *Papilio hyale* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 469, no. 71, by designation of I.C.Z.N. *Opinion* 146.

= ‡*Eurymus* Horsfield, [1829]

Descr. Cat. Lepid. Ins. Mus. E. India Co. (2): 129, 134. Type-species: *Papilio hyale* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 469, no. 71, by original designation. Preoccupied by *Eurymus* Rafinesque, 1815, Analyse Nat.: 117, and a junior objective synonym of *Colias*.

= *Scalidoneura* Butler, 1871

Proc. Zool. Soc. Lond. 1871(1): 250-251. Type-

species: *Scalidoneura hermina* Butler, 1871, Proc. Zool. Soc.

Lond. 1871(1): 251, pl. 19, fig. 5, by original designatio (= *Colias*)

- euxanthe* C. Felder & R. Felder, 1865, Reise Novara (2): 196, no. 196; synonym).
- = *Eriocolias* J. Watson, 1895
Entomol. 28(385): 167. Type-species: *Papilio edusa* Fabricius, 1787, Mantissa Ins. 2: 23, no. 240, by original designation (= *Papilio croceus* Geoffroy 1875, in: Fourcroy, Entomol. Paris 2: 250, no. 48; synonym).
 - = ‡*Coliastes* Hemming, 1931
Entomol. 64(12)[823]: 273. Type-species: *Papilio hyale* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 469, no. 71, by original designation; a junior objective synonym of *Colias*.
 - = *Mesocolias* Petersen, 1963
J. Res. Lepid. 1(2): 144-145. Type-species: *Colias vauthierii* Guérin-Méneville, [1830], in: Duperrey, Voy. Coquille, 1(Zool.)Atlas(18): pl. Ins. 15, fig. 2, by original designation.
 - = *Protocolias* Petersen, 1963
J. Res. Lepid. 1(2): 144-145. Type-species: *Colias imperialis* Butler, 1871, Proc. Zool. Soc. Lond. 1871(1): 250, pl. 19, fig. 2, by original designation (= *Colias ponteni* Wallengren, 1860, Wien. entomol. Monatschr. 4(2): 33, no.1; synonym).
 - = *Palaeocolias* Berger, 1986
Lambillionea 86(7/8, suppl.): 21-22, 32. Type-species: *Colias ponteni* Wallengren, 1860, Wien. Entomol. Montaschr. 4(2): 33, by original designation.
 - = *Neocolias* Berger, 1986
Lambillionea 86(7/8, suppl.): 21, 32. Type-species: *Papilio erate* Esper, 1805, Die Schmett. 1(suppl.)(2)(11): 13-14, pl. 119 (Cont. 74), fig. 3, by original designation.
 - = *Eucolias* Berger, 1986
Lambillionea 86(7/8, suppl.): 22, 33. Type-species: *Papilio palaeno* Linnaeus, 1761, Fauna Svecica (ed. 2): 272, no. 1041, by original designation.
 - = *Similicolias* Berger, 1986
Lambillionea 86(7/8, suppl.): 23, 33. Type-species: *Papilio lesbia* Fabricius, 1775, Syst. Entomol.: 477, no. 149, by original designation.
 - = *Paracolias* Berger, 1986
Lambillionea 86(7/8, suppl.): 24, 34. Type-species: *Colias dimera* E. Doubleday, [1847], in: Gen. diurn. Lepid. (1): pl. 9, fig. 3; (7): 74, no. 15, by original designation.
 - = *Asiocolias* Korb, 2005
Cat. Butterflies ex USSR: 20. Type-species: *Colias christophi* Grun-Grshimaïlo, 1885, in: Romanov, Mém. Lépid. 2: 220, by original designation.
‡"Ganura" Zetterstedt, [1839]
Ins. Lappon. (5): col. 908. Type-species: *Papilio hyale* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 469, no. 71. This name was published in synonymy and is unavailable (Code Article 11.6); a *nomen nudum*.
343. ***Colias philodice* Godart, 1819**
- a. ***Colias philodice philodice* Godart, 1819**
Ency. méth. 9(Ins.)(1): (87), 100-101, no. 35.
Original Combination: *Colias Philodice*
Type Locality: "l'Amérique septentrionale, particulièrement dans la Virginie"; defined as "Virginia" by Klots (1951), Field Guide Butterflies N. Am.: 185.
Types: Location of type not known.
= *dorippe* Godart, 1819

Ency. méth. 9(Ins.)(1): (87), 101, no. 36; cited *Papilio palaeno* (*sensu* Cramer (1775), Uitl. Kapellen 1(2): pl. 14, figs. F, G).

Original Combination: *Colias Dorippe*

Type Locality: "Cap de Bonne-Espérance" in error. [Cape Good Hope, South Africa]

Types: Type(s) may be lost.

= *anthyale* (Hübner, 1823)

Samml. exot. Schmett. 2: pl. [54], figs. 307 ♂ D, 308 ♂ V [1821]; (text): 21, no. 154 (1832, name given).

Original Combination: *Zerene Anthyale*

Type Locality: "Pennsylvanien" [Pennsylvania]

Types: Type(s) probably lost.

= *santes* Fitch, 1854

Trans. N. Y. State Agric. Soc. 13(1853): 378.

Original Combination: *Colias santes*

Type Locality: "New York"; J. Barnes (1988), Bull. New York St. Mus. (461): 112, no. 334, noted that the original specimen (#6680) was labeled "Salem, NY." [Washington County, New York]

Types: Probably lost; J. Barnes (1988), *ibid.*, noted that there were no extant specimens in the NYSM.

= *tegea* Sievers, 1859

Etud. Entomol. (Motschulsky) 8: 146.

Original Combination: *Colias Tegea*

Type Locality: "environs de New York"

Types: Location of type(s) not known.

‡"notatus" (Megerle, 1803)

Cat. Ins. Viennae Austriae 28 Novembris 1803, auctionis: [81], no. 436.

Original Combination: [*Papilio*] *notatus*

Type Locality: "Georgia"

Types: Probably none designated.

I.C.Z.N. *Opinion 1710* placed this work on the *Official Index of Rejected and Invalid Works in Zoological Nomenclature*. This name has at times been credited to A. Clark and L. Clark (1941), Proc. Entomol. Soc. Wash. 43(4): 83, no. 1; their mention of the name represents a *nomen nudum*.

= ‡"alba" Strecker, 1878

Butterflies & Moths N. Am., Comp.

Syn. Cat.: 82, no. 58a; cited W. H. Edwards

(1876), Butterflies N. Am. 2(5): pl. *Colias* 2, fig. 6

♀ D, pl. *Colias* III, figs. 5 ♀ D, 6 ♀ V.

Original Combination: [*Colias Philodice*] ab. a.

♀ *Alba*

Type Locality: Not stated.

Types: "Type(s)" may be in CMNH.

= ‡"nig" Strecker, 1878

Butterflies & Moths N. Am., Comp. Syn. Cat.: 82,

no. 58b; cited W. H. Edwards (1876), Butterflies

N. Am. 2(5): pl. *Colias* 3, figs. 8 ♂ D, 9 ♂ V.

Original Combination: [*Colias Philodice*] ab. b.

♂ *Nig*

Type Locality: "near Palmyra, New York...Montreal, Canada"; "lectotype" from "Montreal." [Quebec]

Types: The specimen from Montreal in FMNH is the sole remaining "syntype"; L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 220, note 281, designated this as "lectotype."

- = ‡"virida" Strecker, 1878
Butterflies & Moths N. Am., Comp. Syn. Cat.: 82, no. 58c.

Original Combination: [*Colias Philodice*] ab. c.
♀ *Virida*

Type Locality: "taken at the same time and place as the preceding [nig]" "near Montreal, Canada" [Quebec]

Types: "Holotype" in FMNH.

- = ‡"hybrida" Strecker, 1878
Butterflies & Moths N. Am., Comp. Syn. Cat.: 82, no. 58d; cited W. H. Edwards (1876), Butterflies N. Am. 2(5): pl. *Colias* 3, fig. 1 ♂ D.

Original Combination: [*Colias Philodice*] ab. d.
♀ *Hybrida*

Type Locality: "Illinois, Georgia"; determined to be "Rock Island, Illinois" from Edwards' figure. [Rock Island County]

Types: "Holotype" is the specimen figured by W. H. Edwards (1876), *ibid.*, possibly in CMNH.

- = ‡"albinic" W. H. Edwards, [1885]
Trans. Am. Entomol. Soc. 11(3/4): 264, under no. 68; cited W. H. Edwards (1876), Butterflies N. Am. 2(5): pl. *Colias* 2, fig. 6 ♀ D.

Original Combination: [*Colias Philodice*]
var. *Albinic*

It is doubtful that this can be considered the description of a new taxon but is included for the sake of completeness.

- = ‡"melanic" W. H. Edwards, [1885]
Trans. Am. Entomol. Soc. 11(3/4): 264, under no. 68; cited W. H. Edwards (1876), Butterflies N. Am. 2(5): pl. *Colias* 3, figs. 8 ♀ D, 9 ♀ V.

Original Combination: [*Colias Philodice*]
var. *Melanic*

It is doubtful that this can be considered the description of a new taxon but is included for the sake of completeness.

- = ‡"maria" W. H. Edwards, 1885
Papilio 4(9-10): 171.

Original Combination: *C[olias]*.
[*philodice*] *maria*

Type Locality: Not stated.

Types: "Holotype" lost.

This name represents a cyanide-stained specimen, inadvertently described.

- = ‡"nigridice" Scudder, 1889
Butterflies E. U. S. & Can. 2(8): 1114; cited W. H. Edwards (1876), Butterflies N. Am. 2(5): pl. *Colias* 3, figs. 8 ♂ D, 9 ♂ V.

Original Combination: *Eurymus phi[odice]*. [♂ form] *nigridice*

Type Locality: "Palmyra, N. Y." [Wayne County, New York]

- Types:** "Holotype" is the specimen figured by W. H. Edwards (1876), *ibid.*, possibly in CMNH.
- = ‡"miscidice" Scudder, 1889
Butterflies E. U. S. & Can. 2(8): 1115.
Original Combination: *E[urymus]. p[hilodice]*.
[♀ form] *miscidice*
Type Locality: "Lynn, Mass." [Essex County, Massachusetts]
Types: "Holotype" in Sanborn collection, location not known.
- = ‡"pallidice" Scudder, 1889
Butterflies E. U. S. & Can. 2(8): 1115; 3(8): pl. 7, fig. 6 ♀ D ("holotype"); cited W. H. Edwards (1876), Butterflies N. Am. 2(5): pl. Colias 2, fig. 6 ♀ D; pl. Colias III, figs. 5 ♀ D, 6 ♀ V.
Original Combination: *E[urymus]. p[hilodice]*.
[♀ form] *pallidice*
Type Locality: "New England" implied from the title of the work.
Types: Location of "syntypes" not known, may be at MCZ.
- = ‡"suffusa" Cockerell, 1889
Entomol. 22(310): 55.
Original Combination: *C[olias]. philodice suffusa*
Type Locality: "Massachusetts"
Types: "Type" figured by Maynard (1886), Butterflies N. England: pl. vii, fig. 57c, may be based on a specimen in the MCZ.
The text clearly indicates that this taxon was described as an individual variant.
- = ‡"alba" Ehrmann, 1890
Entomol. News 1(6): 93.
Original Combination: *Colias philodice*,
Ab. alba
Type Locality: "Sarver Station, Butler County, Pa." [Pennsylvania]
Types: Type either unrecognizable or lost.
Redescribed by Ehrmann (1890) in Entomol. News 1(8): 130.
- = ‡"luteitincta" Wolcott, 1893
Can. Entomol. 25(4): 104, under no. 50.
Original Combination: *Colias philodice*,
var. luteitincta
Type Locality: "Batavia, Ills....Grand Rapids" [Kane County, Illinois; Kent County, Michigan]
Types: Type may be in USNM.
The text clearly indicates that this taxon was described as an individual variant.
- = ‡"albinic" Skinner, 1898
Syn. Cat. N. Am. Rhop.: 68, no. 415; cited W. H. Edwards (1876), Butterflies N. Am. 2(5): pl. Colias 2, fig. 6 ♀ D.
Original Combination: [*Colias Philodice*]
var. albinic
It is doubtful that this can be considered the description of a new taxon. It has been listed in checklists and catalogues (e.g., L. Miller and F.

- Brown (1981), Mem. Lepid. Soc. 2: 78), but is included for the sake of completeness.
- = ‡"melanic" Skinner, 1898
Syn. Cat. N. Am. Rhop.: 69, no. 415; cited W. H. Edwards (1876), Butterflies N. Am. 2(5): pl. Colias 3, figs. 8 ♂ D, 9 ♂ V.
Original Combination: [*Colias philodice*]
var. *melanic*
It is doubtful that this can be considered the description of a new taxon. It has been listed in checklists and catalogues (e.g., L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 78), but is included for the sake of completeness.
- = ‡"nigrina" Strecker, 1900
Lepid. Rhop. Het. (suppl. 3): 19; cited Strecker (1878), Butterflies & Moths N. Am., Comp. Syn. Cat.: 82, no. 58b.
Original Combination: *Colias philodice* ♂ form *nigrina*
Type Locality: "Bethlehem, Pa...Montreal, Can...Orillia, Can." [Lehigh and Northhampton counties, Pennsylvania; Quebec and Ontario]
Types: "Syntypes" in FMNH.
This amounts to a re-description of *Colias philodice* ab. ♂ *nig* which was not cited by name.
- = ‡"alba" Röber, 1909
In: Seitz, Grossschmett. Erde 5(29): 91.
Original Combination: [*Colias philodice*]
ab. *alba*
Type Locality: Not stated; "lectotype" from "Philadelphia." [Philadelphia County, Pennsylvania]
Types: "Lectotype" in ZMHB, designated by Lamas (1995), Shilap Revta. Lepid. 23(91): 344.
- = ‡"nigrofasciata" Reiff, 1917
Lepidopterist 1(3): 22-23, pl. 3 ♀ D.
Original Combination: *Colias philodice* f[orm] *nigrofasciata*
Type Locality: "Belchertown, Massachusetts" [Hampshire County]
Types: "Holotype" in USNM.
- = ‡"rothkei" Reiff, 1917
Lepidopterist 1(11): 84, pl. 7 ♂ D ("holotype").
Original Combination: *Colias philodice* ab. *rothkei*
Type Locality: "Susquehanna Valley, Pa." [Pennsylvania]
Types: "Holotype" in AMNH.
- = ‡"plicaduta" Nakahara, 1926
Bull. Brooklyn Entomol. Soc. 20(5): 222-223.
Original Combination: *Colias philodice* f. *plicaduta*
Type Locality: "Ithaca, N. Y." [Tompkins County, New York]
Types: "Holotype" in USNM.
- = ‡"inversata" Nakahara, 1926
Bull. Brooklyn Entomol. Soc. 20(5): 223.

- Original Combination:** *Colias philodice* ab. *inversata*
Type Locality: "Midvale, Allegheny Co., Pa." [Pennsylvania]
Types: "Holotype" in USNM.
- = ‡"minor" F. Chermock, 1927
 Bull. Brooklyn Entomol. Soc. 22(2): 118.
Original Combination: *Colias philodice* form *plicaduta* ab. *minor*
Type Locality: "N. S. Pittsburgh, Pa." [Allegheny County, Pennsylvania]
Types: "Holotype" in MGCL.
- = ‡"ehrmanni" F. Chermock, 1927
 Bull. Brooklyn Entomol. Soc. 22(2): 118.
Original Combination: *Colias philodice* from [sic!] *plicaduta* ab. *Ehrmanni*
Type Locality: "N. S. Pittsburgh, Pa." [Allegheny County, Pennsylvania]
Types: "Holotype" in MGCL.
- = ‡"alba" F. Chermock, 1927
 Bull. Brooklyn Entomol. Soc. 22(2): 119.
Original Combination: *Colias philodice* from [sic!] *plicaduta* var. *alba*
Type Locality: "N. S. Pittsburgh, Pa." [Allegheny County, Pennsylvania]
Types: "Holotype" in MGCL.
- = ‡"albida" F. Chermock, 1928
 Bull. Brooklyn Entomol. Soc. 23(4): 173.
Original Combination: *Colias philodice* f. *plicaduta* var. *albida*
 Proposed as a replacement name for *alba* F. Chermock, 1927, but that name is infrasubspecific and therefore not subject to homonymy.
- = ‡"raritus" (Gunder, 1928)
 Can. Entomol. 60(7): 163, pl. A, figs. 2 ♀ D, 2a ♀ V ("holotype").
Original Combination: *Eurymus philodice* tr. f. *raritus*
Type Locality: "Scranton, Pa." [Lackawanna County, Pennsylvania]
Types: "Holotype" in AMNH.
- = ‡"serrata" (F. Chermock, 1929)
 Bull. Brooklyn Entomol. Soc. 24(1): 21.
Original Combination: *Eurymus philodice* var. *serrata*
Type Locality: "Rossgrove, near Aspinwall, Pa." [Allegheny County, Pennsylvania]
Types: "Holotype" in MGCL.
- = ‡"minor" Dufrane, 1947
 Bull. Annls. Soc. Entomol. Belg. 83(1/2): 69.
Original Combination: [*Colias philodice* f. *anthyale*] *minor*
Type Locality: "Temple, Pa. E. U. A." [Berks County, Pennsylvania]
Types: "Syntype" in IRSN.
 Dufrane probably used the name *minor* as a qualifier for a small specimen.

- = ‡"reducta" Dufrane, 1947
Bull. Anns. Soc. Entomol. Belg. 83(1/2): 69.
Original Combination: [*Colias philodice* f. *anthyale*] ab. *reducta*
Type Locality: "Temple, Pa. E. U. A." [Berks County, Pennsylvania]
Types: "Syntype" in IRSN.
‡"alba" Pilate, 1882
Papilio 2(5): 65.
Original Combination: [*Colias*] *Philodice* ♀
var. *Alba*
Proposed without a description or indication; a *nomen nudum*
‡"vernalis" Scott, 1986
Butterflies N. Am.: 198, no. 38.
Original Combination: [*Colias philodice*] form *vernalis*
Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.
- b. ***Colias philodice eriphyle*** W. H. Edwards, 1876
Trans. Am. Entomol. Soc. 5(3/4): 202.
Original Combination: *Colias Eriphyle*
Type Locality: "Lake Labache [sic!], in British Columbia" [Lake La Hache]
Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 87, fig. 20 ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 35, fig. 15 ♂ D.
- = *hagenii* W. H. Edwards, [1884]
Papilio 3(7-10): 160-161, 163, no. 11.
Original Combination: *Colias Hagenii*
Type Locality: "Rocky Mountains from Colorado to B. Am....Pueblo, Col....various localities...So. Colorado to Montana and Dacotah (Bismarck)"; defined as "northeastern corner of South Park, Park Co., Colorado" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 87.
Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 90, fig. 21 ♂ D&V.
- = *kootenai* Cockle, 1910
Can. Entomol. 42(6): 203-204.
Original Combination: *Colias Kootenai*
Type Locality: "Kaslo and in Northern British Columbia" implied from the title of the paper.
Types: Syntypes in CNC.
- = ‡"autumnalis" Cockerell, 1888
W. Am. Sci. 4(33): 42.
Original Combination: [*Colias Eurytheme Eriphyle*] autumn brood *autumnalis*
Type Locality: "Swift Creek, Custer Co., Colo." [Colorado]
Types: Type(s) possibly in BMNH.
- = ‡"nigricosta" (F. Chermock, 1929)
Bull. Brooklyn Entomol. Soc. 24(1): 21.
Original Combination: *Eurymus eurytheme* f. *eriphyle* var. *nigricosta*
Type Locality: "Edmonton, Alberta, Canada"

- Types:** "Holotype" in MGCL.
 = ‡"laurae" (F. Chermock, 1929)
 Bull. Brooklyn Entomol. Soc. 24(1): 21.
Original Combination: *Eurymus eurytheme* f. *eriphyle* ab. *laurae*
Type Locality: "Edmonton, Alberta, Canada"
Types: "Holotype" in MGCL.
- c. ***Colias philodice vitabunda*** Hovanitz, 1943
 Am. Mus. Novit. (1240): 2, 3-4.
Original Combination: *Colias chrysotheme vitabunda*
Type Locality: "McKinley National Park, Alaska" [Denali National Park]
Types: Holotype in AMNH.
 = ‡"pallidissima" Bowman, 1942
 Can. Entomol. 74(2): 25.
Original Combination: [*Colias eurytheme alberta*] ab. ♀ *pallidissima*
Type Locality: "Fort Vermillion, Alta." [Alberta]
Types: "Syntypes" in CNC; figured by Ferris (1972), Bull. Allyn Mus. (5): 17, 21 ♀ D, 22 ♀ V, 23 ♀ D, 24 ♀ V.
344. ***Colias eurytheme*** Boisduval, 1852
 Annls. Soc. Entomol. Fr. (2)10(2): 286, no. 13.
Original Combination: *Colias eurytheme*
Type Locality: "toute la Californie...aussi le Mexique et quelques parties des Etats-Unis"; defined as "Sacramento, Sacramento County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 8.
Types: Lectotype USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 9, figs. 6 ♂ D, 7 ♂ V; figured by Verity [1908], Rhop. palae. (17-20): pl. 49, fig. 42 ♂ D, labeled "Californie."
 = *amphidusa* Boisduval, 1852
 Annls. Soc. Entomol. Fr. (2)10(2): 286-287, no. 14.
Original Combination: *Colias amphidusa*
Type Locality: "Du nord de la Californie"; defined as "Sacramento, Sacramento County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 9.
Types: Lectotype USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 9, figs. 9 ♂ D, 10 ♂ V; figured by Verity [1908], Rhop. palae. (17-20): pl. 49, fig. 44 ♂ D, labeled "Californie."
 = *californiana* Ménétriés, 1855
 Enum. corp. anim. (1): 80, under no. 253.
Original Combination: [*Colias Edusa*] var. *Californiana*
Type Locality: "Nouvelle Californie"
Types: Type(s) should be in ZIN.
 = *xenodice* C. Felder & R. Felder, 1859
 Wien. entomol. Monatschr. 3(12): 394-395, no. 35.
Original Combination: *Colias Xenodice*
Type Locality: "Assam"; holotype labeled "Illinois."
Types: Holotype in BMNH.
 = *keewaydin* W. H. Edwards, 1869
 Butterflies N. Am. [1](4): [47]-[49], pl. *Colias* 4, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V, 5 ♀ D, 6 ♂ D, 8 ♂ D, 9 ♀ D.
Original Combination: *Colias Keewaydin*
Type Locality: "valley of the Mississippi from Nebraska and Illinois to Texas and westward to the Pacific...Middle

States and Canada"; defined as "Sedalia, Missouri" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 78-81. [Pettis County]

Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 81, fig. 18 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 36, fig. 9 ♂ D.

- = *ariadne* W. H. Edwards, 1870
Trans. Am. Entomol. Soc. 3(1): 10, 12-13, no. 4; figured by W. H. Edwards (1878), Butterflies N. Am. 2(7): pl. Colias 4, figs. 1 ♂ D, 2 ♂ V, 3 ♀ V.

Original Combination: *Colias Ariadne*

Type Locality: "Mokeluma Hills [sic!], California"
[Mokelumne Hill, Calaveras County]

Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 83, fig. 19 ♂ D&V.

- = *graeca* O. Bang-Haas, 1927
Horae Macrolepid. 1(8): 44, 113.
Original Combination: *Colias chrysotheme graeca*
Bang-Haas adopted *Colias chrysotheme* var. *chrysotheme* race *graeca* Verity [1911] to represent a subspecies-level taxon (Code Articles 10.2, 45.5.1) He called figure 5 the male type and figure 6 the female type and, in accordance with his statement on page xix of the same work, this may be accepted as a holotype and allotype designation. The male is a specimen of *Colias eurytheme* Boisduval, 1852.

- = ‡"graeca" Verity, 1911
Rhop. Palaearctica: 359; pl. 72, figs. 5 % D (holotype), 6 & D; ind. syst.: xl.

Original Combination: [*Colias chrysotheme* var. *chrysotheme*] race *graeca*

Type Locality: "Grèce" in error.

Types: Holotype in BMNH.

As a quadrinomial, this name is unavailable (Code Article 45.5).

- = ‡"alba" Strecker, 1878
Butterflies & Moths N. Am., Comp. Syn. Cat. Lepid: 82, no. 60b; cited W. H. Edwards (1869), Butterflies N. Am. [1](4): pl. Colias 3, figs. 5 ♀ D, 6 ♀ V.

Original Combination: [*Colias Chrysotheme* var. a. gen. 2 *Eurytheme*] ab. b. *Alba*

Type Locality: Not stated.

Types: "Type(s)" possibly in CMNH.

It is doubtful that this can be considered the description of a new taxon. It has been listed in checklists and catalogues (e.g., L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 80), but is included for the sake of completeness.

- = ‡"flava" Strecker, 1878
Butterflies & Moths N. Am., Comp. Syn. Cat.: 83, no. 60c.

Original Combination: [*Colias Chrysotheme* var. a. gen 2 *Eurytheme*] ab. c. *Flava*

Type Locality: Not stated.

Types: "Holotype" possibly in FMNH.

It is doubtful that this can be considered the description of a new taxon. It has been listed in

- checklists and catalogues (e.g., L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 80), but is included for the sake of completeness.
- = ‡"alba" Strecker, 1878
 Butterflies & Moths N. Am., Comp. Syn. Cat.: 83, no. 60e; cited W. H. Edwards (1869), Butterflies N. Am. [1](4): pl. *Colias* 4, fig. 9 ♀ V.
Original Combination: [*Colias Chrysotheme* var. d *Keewaydin*] ab. e. ♀ *Alba*
Type Locality: Not stated.
Types: "Holotype" possibly in CMNH.
 It is doubtful that this can be considered the description of a new taxon. It has been listed in checklists and catalogues (e.g., L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 80), but is included for the sake of completeness.
- = ‡"pallida" Cockerell, 1887
 W. Am. Sci. 3(31): 217.
Original Combination: *C[olias]. eurytheme* var. *pallida*
Type Locality: "near West Cliff [*sic!*], Custer Co., Colorado" [Westcliffe]
Types: Type(s) possibly in BMNH.
- = ‡"typica" Cockerell, 1888
 W. Am. Sci. 4(33): 41-43.
Original Combination: *Colias eurytheme typica*
Type Locality: Not specifically stated; "vic. of Westcliffe, Custer Co., Colorado" implied from the text of the paper.
Types: Type(s) probably lost (or never existed). Name was inadvertently proposed.
- = ‡"intermedia" Cockerell, 1888
 W. Am. Sci. 4(33): 42 (in part).
Original Combination: [*Colias Eurytheme*] form *intermedia*
Type Locality: "Swift Creek, Custer Co., Colo." [Colorado]
Types: Type(s) possibly in BMNH.
- = ‡"pallida" Cockerell, 1888
 W. Am. Sci. 4(33): 42 (in part).
Original Combination: [*Colias Eurytheme*] *intermedia* [female form] *pallida*
Type Locality: Not specifically stated; "vic. of Westcliffe, Custer Co., Colorado" implied from the text of the paper.
Types: Type(s) possibly in BMNH.
- = ‡"pallida" Cockerell, 1888
 W. Am. Sci. 4(33): 42 (in part).
Original Combination: [*Colias Eurytheme*] *keewaydin* [female form] *pallida*
Type Locality: Not specifically stated; "vic. of Westcliffe, Custer Co., Colorado" implied from the text of the paper.
Types: Type(s) possibly in BMNH.
- = ‡"fumosa" Strecker, 1900
 Lepid. Rhop. Het. (suppl. 3): 19.
Original Combination: *Colias eurytheme* [♀] ab. *fumosa*

- Type Locality:** "Colorado"
Types: "Holotype" in FMNH.
 = ‡"neuburgeri" Geest, 1905
 Z. wiss. InsektBiol. 1(9): 379, no. 3.
Original Combination: *Colias Eurytheme* [sic!]
 ab. *Neuburgeri*
Type Locality: Not stated.
Types: Location of "type" not known.
 = ‡"alba" Röber, 1909
 In: Seitz, Grossschmett. Erde 5(29): 93.
Original Combination: [*Colias eurytheme*] ab. *alba*
Type Locality: Not stated; "lectotype" from "Nevada, Verdi." [Washoe County]
Types: "Lectotype" in ZMHB, designated by Lamas (1993), Shilap Revta. Lepid. 21(83): 142, no. 10.
 = ‡"albina" Röber, 1909
 In: Seitz, Grossschmett. Erde 5(29): 93.
Original Combination: [*Colias eurytheme*]
 ab. *albina*
Type Locality: Not stated; "lectotype" from "Nevada, Verdi." [Washoe County]
Types: "Lectotype" in ZMHB, designated by Lamas (1993), Shilap Revta. Lepid. 21(83): 142, no. 10.
 = ‡"unicitrina" (Gunder, 1924)
 Entomol. News 35(3): 158, pl. 2, fig. J ♂ D ("holotype").
Original Combination: *Eurymus eurytheme*
amphidusa ab. ♂ *unicitrina*
Type Locality: "Upland, Los Angeles Co., California"
Types: "Holotype" in AMNH.
 = ‡"rudkini" (Gunder, 1932)
 Can. Entomol. 64(12): 277-278.
Original Combination: *Eurymus eurytheme* tr.
 f. *rudkini*
Type Locality: "San Marino, Los Angeles Co., Calif."
Types: "Holotype" in AMNH.
 ‡"vernalis" Scott, 1986
 Butterflies N. Am.: 196, no. 37.
Original Combination: [*Colias eurytheme*]
 form *vernalis*
 Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.
345. ***Colias occidentalis*** Scudder, 1862
 a. ***Colias occidentalis occidentalis*** Scudder, 1862
 Proc. Boston Soc. Nat. Hist. 9: 109-111, unnumbered fig.
Original Combination: *Colias Occidentalis*
Type Locality: "Gulf of Georgia...Fort Simpson, British America"; lectotype from "Gulf of Georgia." This locality was interpreted to be "near Port Townsend, Wash. Terr., Gulf of Georgia" by H. Hagen (1883), Proc. Boston Soc. Nat. Hist. 22: 164. [Jefferson County, Washington]
Types: Lectotype (#16603) in MCZ, designated by W. Barnes and McDunnough (1918), Contr. Nat. Hist. Lepid. N. Am. 4(2): 65; the same specimen was later designated lectotype by Ferris (1988), Bull. Allyn Mus. (116): 19, figs. 29 ♂ D, 30 ♂ V, 31 ♂ D UV.

‡"alba" Scott, 1986

Butterflies N. Am.: 196, no. 36.

Original Combination: [*Colias occidentalis*]
form *alba*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

- b. ***Colias occidentalis chrysomelas*** Hy. Edwards, 1877
Pac. Coast Lepid. (24): 8-9, 11.

Original Combination: *C[olias]. Chrysomelas*

Type Locality: "Napa County, Cal." [California]

Types: Lectotype (#3448 2308) in AMNH, designated by Ferris (1993), Bull. Allyn Mus. (138): 38, figs. 56 ♂ D, 57 ♂ V, 58 ♂ D UV.

On page 9 this taxon was spelled "chryomelas," an incorrect original spelling. L. Miller and F. Brown (1983), in: Hodges, *et al.*, MONA Check List: 52, spelled this name "chrysomelaena," an unjustified emendation of *chrysomelas*.

= ‡"shastae" (W. Barnes & Benjamin, 1926)

Bull. South. Calif. Acad. Sci. 25(3): 88, under no. 63a.

Original Combination: *Eurymus occidentalis chrysomelas* form *shastae*

Type Locality: "Shasta Retreat, Siskiyou Co., Calif." [California]

Types: "Holotype" in USNM.

- c. ***Colias occidentalis sullivanii*** Hammond & McCorkle, 2003

J. Lepid. Soc. 57(4): 275-276, figs. 1st row left ♂ D (holotype), 1st row left center ♀ D, 2nd row left ♂ V, 2nd row left center ♀ V, 3rd left ♂ V, left center ♂ V, right center ♂ V, right ♂ V, 4th row left ♂ D, 4th row left center ♂ V, 4th row right center ♂ V, 4th row right ♂ V.

Original Combination: *Colias occidentalis sullivanii*

Type Locality: "Oregon, Harney County, Alvord Desert road at north end of Steens Mountains, T29N, R36E, sec. 25, 26"

Types: Holotype in AMNH.

- d. ***Colias occidentalis pseudochristina*** Ferris, 1989

Bull. Allyn Mus. (128): 2-9, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♂ D UV, 5 ♂ D, 6 ♀ V, 8 ♂ V, 9 ♂ V, 10 ♂ V, 11 ♀ D, 12 ♀ V, 13 ♀ D, 14 ♀ V.

Original Combination: *Colias pseudochristina*

Type Locality: "Summit Co., Utah along the North Fork of the Provo River"

Types: Holotype in MGCL.

= *wasatchia* Gillette, 1989

Utahensis 8(4): 41-44, pl. 1, upper left ♂ D, lower left ♂ V (holotype), upper right ♀ D, lower right ♀ V.

Original Combination: *Colias occidentalis wasatchia*

Type Locality: "A ridge 2.3 mi. west of the SW end of Strawberry Reservoir, elev. (2408m)/7900 ft, on the west side of the W Strawberry Rsv road, and 1.9 mi. south of East Portal, Wasatch Co., Utah"

Types: Holotype in BYU.

346. ***Colias christina*** W. H. Edwards, 1863

Opler (1999), Field Guide W. Butterflies: 165, and Hammond and McCorkle (2003), J. Lepid. Soc. 57(4): 274-278, suggested that this taxon is conspecific with *C. occidentalis*. The arrangement of *christina* and *occidentalis* as geographic subspecies is evocative, but the arrangement proposed by A. Warren (2005), Butterflies Ore.: 87-91, is maintained until further information becomes available.

a. *Colias christina kluanensis* Ferris, 1981

Bull. Allyn Mus. (63): 1-3, figs. 1 ♂ D, 2 ♂ V (holotype); 4 ♀ D, 5 ♀ V.

Original Combination: *Colias alexandra kluanensis*

Type Locality: "Haines Junction, Y. T., Canada" [Yukon Territory]

Types: Holotype in MGCL.

= *yukonensis* Berger, 1986

Lambillionea 86(7/8, suppl.): 45.

Original Combination: [*Colias*] *Yukonensis*

Type Locality: "Yukon (Canada)"

Types: Location of types not known, possibly none designated.

It is considered that the key containing this name barely qualifies as a description.

b. *Colias christina christina* W. H. Edwards, 1863

Proc. Entomol. Soc. Philad. 2(2): 78, 79-80, no. 2;

figured by W. H. Edwards (1868), Butterflies N. Am.

[1](2): pl. *Colias* 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Colias Christina*

Type Locality: "portage of the Slave River"; W. H.

Edwards (1884), Papilio 4(2): 30, added "about latitude 60°"; defined as "near the Slave River between Fort

Smith, Northwest Territories and Fitzgerald, Alberta" by Kondla (1995), Alberta Naturalist 25(4): 76. [Northwest Territories]

Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 63.

= *alberta* Bowman, 1942

Can. Entomol. 74(2): 25.

Original Combination: *Colias eurytheme alberta*

Type Locality: "Wembley, Alta." [Alberta]

Types: Holotype in CNC; figured by Ferris (1972), Bull. Allyn Mus. (5): 13, fig. ♂ D&V.

Ferris (1972), Bull. Allyn Mus. (5): 7-9, suggested that this taxon may be a form of *C. eurytheme*, but Masters (1971), J. Res. Lepid. 9(2): 97-99, and Kondla (1991), Utahensis 6(4): 45, presented evidence supporting this synonymy.

= ‡"pallida" Cockerell, 1889

Entomol. 22(312): 128, no. 2f; cited *Colias christina* (*sensu* Lyman (1884), Can. Entomol. 16(1): 6).

Original

Combination: *C[olias]. christina* ♀ *pallida*

Type Locality: Not stated; Lyman (1884), *ibid.*, recorded the type from "North-west Territories."

Types: "Type" is the specimen mentioned by Lyman, may be in LEMQ.

c. *Colias christina sacajawea* Kohler, 2006

Papilio (n.s.) 12: 8-9, pl. 1, 4th row left ♂ D, 5th row left ♂ V (holotype), 4th row center ♀ D, 5th row center ♀ V,

4th row right ♀ D&V, 5th row right ♀ V, pl. 2, 1st row left ♂ D, 2nd row left ♂ V, 1st row center ♂ D&V, 2nd row center ♂ V, 1st row right ♀ D&V, 2nd row right ♀ D&V.

Original Combination: *Colias christina sacajawea*

Type Locality: "Elkhorn Creek, Beartooth Game Range, Lewis & Clark Co., Montana"

Types: Holotype in Kohler collection, will be deposited in BYU.

- d. ***Colias christina pseudocolumbiensis*** C. Guppy & J. Shepard, 2001

Butterflies B. C.: 172-173, figs. ♂ D&V (holotype), ♀ D&V.

Original Combination: *Colias alexandra pseudocolumbiensis*

Type Locality: "BC, Hall Creek at Hwy. 33" [British Columbia]

Types: Holotype in BCPM.

- e. ***Colias christina columbiensis*** Ferris, 1973

J. Lepid. Soc. 27(1): 68-71, figs. 6a, 6b ♂ D&V (holotype); 6c, 6d ♀ D&V, 6e ♂ D UV (holotype), 6f same.

Original Combination: *Colias alexandra columbiensis*

Type Locality: "Anderson Lake, D'Arcy, B. C." [British Columbia]

Types: Holotype in CNC.

The status

of *columbiensis* and *pseudocolumbiensis* needs further study.

- f. ***Colias christina krauthii*** Klots, 1935

Am. Mus. Novit. (767): 1-2.

Original Combination: *Colias christina krauthii*

Type Locality: "twelve miles west of Custer, Black Hills, South Dakota" [Custer County]

Types: Holotype in AMNH.

347. ***Colias alexandra*** W. H. Edwards, 1863

- a. ***Colias alexandra altamont*** Kondla & Kohler, 2006

Papilio (n.s.) 12: 11-12, pl. 1, 1st row left ♂ D, 2nd row left ♂ V (holotype), 1st row center ♀ D, 2nd row center ♀ V, 1st row right ♀ D, 2nd row right ♀ V.

Original Combination: *Colias alexandra altamont*

Type Locality: "Arrow Creek breaks, Hwy. 80, 19 mi. N. of Stanford, Fergus Co., Montana"

Types: Holotype in Kohler collection, will be deposited in BYU.

- b. ***Colias alexandra astraea*** W. H. Edwards, 1872

Trans. Am. Entomol. Soc. 4(1/2): 61, no. 1.

Original Combination: *Colias Astraea*

Type Locality: "near the Yellowstone Lake" [Yellowstone National Park, Wyoming]

Types: Holotype in CMNH, figured by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): fig. 17 ♂ D&V.

- c. ***Colias alexandra alexandra*** W. H. Edwards, 1863

Proc. Entomol. Soc. Philad. 2(1): 14-15, no. 1; [4]: pl. 11, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V; figured by W. H. Edwards (1868), Butterflies N. Am. [1](2): pl. Colias 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Colias Alexandra*

Type Locality: "Pikes Peak...Rocky Mountains"; defined as "foothills west of Denver, Colorado" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 60.

Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 62, fig. 12 ♂ D&V.

- = ‡"alba" Strecker, 1878
Butterflies & Moths N. Am., Comp. Syn. Cat.: 81, no. 55a.

Original Combination: [*Colias Alexandra*] ab.
a. ♀ *Alba*

Type Locality: Not stated.

Types: Type apparently lost, if it ever existed. Strecker may not have intended to describe this as a new taxon.

- = ‡"pallida" Cockerell, 1889
Entomol. 22(312): 128, no. 2f; cited W. H. Edwards (1887), Can. Entomol. 19(12): 229 (actually 230).

Original

Combination: *C[olias]. alexandra* ♀ *pallida*

Type Locality: Not specifically stated; the white female mentioned by W. H. Edwards is from "Colorado."

Types: Type, if it can be identified, is probably in CMNH.

- d. ***Colias alexandra altiplano*** M. Fisher & Scott, 2006
Papilio (n.s.) 12: 10-11, pl. 6, 3rd row left ♂ D, 4th row left ♂ V (holotype), 3rd row center ♀ D, 4th row center ♀ V.

Original Combination: *Colias edwardsii (alexandra?) altiplano*

Type Locality: "Piney Creek, 6000 ft., Arapahoe Co., Colorado"

Types: Holotype in CSUC.

- e. ***Colias alexandra apache*** Ferris, 1988
Bull. Allyn. Mus. (116): 8-11, figs. 4 ♂ D, 5 ♂ V (holotype); 7 ♀ D, 8 ♀ V.

Original Combination: *Colias alexandra apache*

Type Locality: "13 mi. E. of McNary, 2520 m, Apache Co., Arizona"

Types: Holotype in MGCL.

- f. ***Colias alexandra edwardsii*** W. H. Edwards, 1870
Trans. Am. Entomol. Soc. 3(1): 10, 11, no. 2; figured by W. H. Edwards (1870), Butterflies N. Am. [1](6): pl. *Colias* 6, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Colias Edwardsii*

Type Locality: "near Virginia City, at high elevations" [Storey County, Nevada]

Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 67, fig. 14 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 68, fig. 24 ♂ D (lectotype), 25 ♀ D (paralectotype).

- = *emilia* W. H. Edwards, 1870
Trans. Am. Entomol. Soc. 3(1): 10, 12, no. 3.

Original Combination: *Colias Emilia*

- Type Locality:** "Oregon"; neotype from "Crump Lake, 4500', Lake County, Oregon."
Types: Neotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 72, fig. 15 ♂ D&V.
 = ‡"hatui" (W. Barnes & Benjamin, 1926)
 Bull. South. Calif. Acad. Sci. 25(3): 89, no. 67a.
Original Combination: *Eurymus alexandra edwardsi* form ♀ *hatui*
Type Locality: "Stockton, Utah" [Tooele County]
Types: "Holotype" in USNM.
348. **Colias harfordii** Hy. Edwards, 1877
 Pac. Coast. Lepid. (24): 9.
Original Combination: *Colias Harfordii*
Type Locality: "Contra Costa Co...Havilah [sic!], Kern Co." [Havilah, Kern County, California]
Types: Lectotype (#3436 7003) in AMNH, designated by Ferris (1993), Bull. Allyn Mus. (138): 14, figs. 4 ♂ D, 5 ♂ V, 6 ♂ D UV.
 The first reviser choice of *harfordii* over *barbara* was made by Skinner (1898), Syn. Cat. N. Am. Rhop.: 69.
 = *barbara* Hy. Edwards, 1877
 Pac. Coast. Lepid. (24): 7-8, 11.
Original Combination: *Colias Barbara*
Type Locality: "Santa Barbara...Gilroy"; lectotype from "San Bernardino California." [San Bernardino County]
Types: Lectotype (#3440 7005) in AMNH, designated by Ferris (1993), Bull. Allyn Mus. (138): 13.
 = ‡"weaverae" (Gunder, 1924)
 Entomol. News 35(3): 156-157, pl. 2, fig. G ♀ D ("holotype").
Original Combination: *Eurymus hartfordii* ab.
 ♀ *weaverae*
Type Locality: "Warner Springs, San Diego County, California"
Types: "Holotype" in AMNH.
 L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 80, suggested that this may be a hybrid with *C. eurytheme*, but Ferris (1988), Bull. Allyn Mus. (116): 5, considered this within the normal range of variation in *C. harfordii*.
 = ‡"martini" (Gunder, 1931)
 Bull. South. Calif. Acad. Sci. 30(2): 45.
Original Combination: *Eurymus harfordii* form ♀ *martini*
Type Locality: "South side of Arrowhead Lake, San Bernardino Co., Calif." [California]
Types: "Holotype" in AMNH.
349. **Colias meadii** W. H. Edwards, 1871
 a. **Colias meadii meadii** W. H. Edwards, 1871
 Trans. Am. Entomol. Soc. 3(3/4): 266, 267-268, no. 2; figured by W. H. Edwards (1872), Butterflies N. Am. [1](10): pl. Colias 8, figs. 6 ♂ D, 7 ♂ V, 8 ♀ D, 9 ♀ V.
Original Combination: *Colias Meadii*
Type Locality: Not stated; W. H. Edwards (1872), Butterflies N. Am. [1](10): [59], noted "Colorado...on the 'divide'...Mt. Lincoln...Kenosha House"; defined as "Mosquito Pass" by F. Brown (1934), J. N. Y. Entomol.

Soc. 42(2): 158-159; further defined as "Mosquito Pass, Park-Lake Counties, Colorado" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 91.

Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 93, fig. 22 ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 36, fig. 5 ♂ D (lectotype), 6 ♀ D (paralectotype).

= ‡"andelis" Grum-Grshimailo, 1907
Opisan. puteshest. Zapad. Kitai 3: 424; cited W. H. Edwards (1892), Can. Entomol. 24(3): 54-55.

Original Combination: [*Colias meadii*] v? ab? andelis

Type Locality: "Hall Valley...Gibson Mountain" [Park and Saguache Counties, Colorado]

Types: "Syntypes" possibly in CMNH.

= ‡"medi" (Gunder, 1934)
Can. Entomol. 66(6): 125.

Original Combination: *Eurymus meadii* f.

♀ *medi*

Type Locality: "Breckenridge Peak (11,000 f.), Empire Co., Colorado" [probably Summit County]

Types: "Holotype" in AMNH.

‡"alba" Scott, 1986

Butterflies N. Am.: 194, no. 34.

Original Combination: [*Colias meadii meadii*] form *alba*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

b. *Colias meadii elis* Strecker, 1885

Proc. Acad. Nat. Sci. Philad. 37(2): 24; (3): 25.

Original Combination: *Colias Elis*

Type Locality: "at an elevation of 10,000 feet...summit of 'Kicking Horse Pass', in the Rocky Mountains, between Alberta Territory and British Columbia, at the boundary between the United States and the British possessions, about 300 miles north of Montana"; defined as "Kicking Horse Pass, Banff National Park, Alberta" by Kondla (1996), Alberta Naturalist 26(2): 39.

Types: Syntypes in FMNH; two figured by W. Holland (1898), Butterfly Book: pl. 36, figs. 13 ♂ D, 14 ♀ D.

= ‡"lambillioni" Dufrane, 1947
Annls. Soc. Entomol. Belg. 83(1-2): 70.

Original Combination: [*Colias elis*] ab. *lambillioni*

Type Locality: "Canada"

Types: "Holotype" probably in MRAC.

c. *Colias meadii lemhiensis* N. Curtis & Ferris, 1985

Bull. Allyn Mus. (91): 2-7, figs. 1 ♂ D, 2 ♂ V (holotype).

Original Combination: *Colias meadii lemhiensis*

Type Locality: "near Meadow Creek Lake, 4 mi. W. of Gilmore, 9100' (2775m), Lemhi Range, Salmon National Forest, Lemhi Co., Idaho"

Types: Holotype in MGCL.

350. *Colias johanseni* Troubridge & Philip, 1990

Can. Entomol. 122(1/2): 16-17, figs. 1A ♂ D, 1B ♂ V (holotype); 2A ♀ D, 2B ♀ V, 3A ♂ V, 3B ♂ V.

Original Combination: *Colias johanseni*

- Type Locality:** "Canada, District of Mackenzie, Bernard Harbour, altitude 10 m" [Nunavut]
Types: Holotype in CNC.
351. **Colias rankinensis** Verhulst, 2009
 Lambillionea 109(4): 421-422, pl. [1], figs. 1 ♂ D, 6 ♂ V (holotype), 2 ♂ D, 7 ♂ V, 3 ♂ D, 8 ♂ V 4 ♂ D, 9 ♂ V, 5 ♂ D, 10 ♂ V, 11 ♂ D, 16 ♂ V, 12 ♂ D, 17 ♂ V, 13 ♂ D, 18 ♂ V, pl [2], figs. 1 ♀ D, 6 ♀ V (holotype), 2 ♀ D, 7 ♀ V, 3 ♀ D, 8 ♀ V 4 ♀ D, 9 ♀ V, 5 ♀ D, 10 ♀ V, 11 ♀ D, 16 ♀ V, 12 ♀ D, 17 ♀ V, 13 ♀ D, 18 ♀ V, 14 ♀ D, 19 ♀ V.
Original Combination: *Colias rankinensis*
Type Locality: "Canada, Nunavut, Rankin Inlet, N 62°48'32.19, O 92° 6'26.25"
Types: Holotype in Verhulst collection.
352. **Colias hecla** Lefèbvre, 1836
 a. **Colias hecla hecla** Lefèbvre, 1836
 Annls. Soc. Entomol. Fr. [1]5: 383-387, pl. 9B, figs. 3 ♂ D, 4 ♂ V, 5 ♀ D, 6 ♀ V.
Original Combination: *Colias Hecla*
Type Locality: "l'Islande"; determined to be "Groenlandia" by Zetterstedt, [1839], Ins. Lappon. (5): col. 908-909, no. 3.
Types: Syntypes in ZMUC.
 = *glacialis* M'Lachlan, 1878
 J. Linn. Soc. Lond., Zool. 14(74): 108.
Original Combination: *Colias Hecla*, var. *Glacialis*
Type Locality: "lat. 81°45'...Hayes Sound, lat. 79°...Discovery Bay" [latitude 81°45' refers to Lady Franklin Bay, Ellesmere Island, Nunavut]
Types: Syntypes in BMNH; two figured by Ferris (1981), Bull. Allyn Mus. (63): figs. 8 ♂ D, 9 ♂ V, 11 ♀ D, 12 ♀ V, and (1982), Bull. Allyn Mus. (71): figs. 13 ♂ D, 14 ♂ V, 16 ♀ D, 17 ♀ V.
 = *zetterstedti* Grum-Grshimailo, 1890
 In: Romanov, Mém. Lépid. 4: 297, (note 157).
Original Combination: [*Colias Hecla*] var. *Zetterstedti*
Type Locality: "Groënländ"
Types: Syntypes in BMNH.
 = *pallida* [Skinner], 1892
 Entomol. News 3(3): 49, pl. 2, fig. 4 ♀ D.
Original Combination: *Colias hecla* var. *pallida*
Type Locality: "Greenland"; syntypes from "West Coast...McCormick Bay, Herbert Island and Disco."
Types: Syntype (#7030) in CMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 75, fig. 4 & D.
 The plate and accompanying legend were Skinner's work as editor, although this is not stated in the publication. This taxon was redescribed by Skinner and Mengel (1892), Proc. Acad. Nat. Sci. Philad. 44(5): 156-157.
 = *groenlandica* Rühl, 1893
 In: Rühl & Heyne, Palae. Grossschmett. 1(3): 158.
Original Combination: [*Colias Hecla*] var. *groenlandica*
Type Locality: "Labrador, Grönland"; "Greenland" implied from the derivation of the name.

Types: Location of type(s) not known.

= ‡*chrysothemoides* Verity, [1911]
Rhop. palae. (26-29): 356; (30-36): pl. 71, figs.
22 ♂ D, 23 ♀ D; ind. syst.: xxxvii.

Original Combination: [*Colias hecla hecla*]
forme *chrysothemoides*

Type Locality: "Territoire de Barren, 114°30'
long. O., 67°40' lat. N., Am. boréale" implied
from the legend to plate 71. [vic. Coppermine,
Northwest Territories]

Types: Syntypes in BMNH.

= ‡"palamedes" Hemming, 1934
Stylops 3(5): 98, no. 17.

Original Combination: *Colias hecla palamedes*
Proposed to replace *Colias*
hecla var. *pallida* Skinner and Mengel 1892,
Proc. Acad. Nat. Sci. Philad. 44(5): 156-157, an
unavailable name.

‡"alba" Scott, 1986
Butterflies N. Am.: 194, no. 33.

Original Combination: [*Colias hecla hecla*]
form *alba*

Proposed as a "form" with no nomenclatural
standing; a *nomen nudum*.

b. *Colias hecla hela* Strecker, 1880

Bull. Brooklyn Entomol. Soc. 3(5): 33-34.

Original Combination: *Colias Hela*

Type Locality: "a considerable distance above Fort
Churchill on west coast of Hudson's Bay"; suggested to
be "the vicinity of Eskimo Point" by Ferris (1982), Bull.
Allyn Mus. (71): 10. [Arviat, Nunavut, Canada]

Types: Syntypes in FMNH; figured by Ferris (1982),
Bull. Allyn Mus. (71): figs. 35 ♂ D, 36 ♂ V, 37 ♀ D, 38 ♀
V, 39 ♀ D, 40 ♀ V.

**c. *Colias hecla zamolodchikovi* Churkin & Grieshuber,
2001**

Helios 2: 178-180, pl. 15, figs. 5 ♂ D (holotype), 6 ♂ V,
pl. 16, figs. 1 ♀ D, 2 ♀ V.

Original Combination: *Colias hecla zamolodchikovi*

Type Locality: "Russia, East Chukotka, 20 km SE Ioni
Lake, Gilmimlviem, [65° 48' N, 173° 22' W]" [Magadan
Oblast, Chukotka Autonomous Okrug, Russia]

Types: Holotype in DSM.

353. *Colias canadensis* Ferris, 1982

Bull. Allyn Mus. (71): 11-14, figs. 49 ♂ D, 50 ♂ V (holotype);
51 ♀ D, 52 ♀ D, 53 ♂ D, 54 ♂ V, 55 ♀ D, 56 ♀ V.

Original Combination: *Colias hecla canadensis*

Type Locality: "mile 209, Alaska Highway, British Columbia,
Canada"

Types: Holotype in MGCL.

Ferris (1988), Bull. Allyn Mus. (116): 12, elevated this taxon
to the species-level.

***354. *Colias tyche* (Böber, 1812)**

Mém. Soc. Imp. Nat. Moscou 3: 21, no. 7, pl. 1, figs. 3 ♂ D, 4
♂ V; 320 (index, binomial combination).

Original Combination: [*Papilio*] *Dan[aus]*. *Tyche*

Type Locality: "Sibérie" implied from the title of the paper,
but stated to be "des environs du lac Baïkal" by Böber,

- (1809), Mém. Soc. Imp. Nat. Moscou 2: 303. [Republic of Buryatia, Russia]
Types: Syntypes probably lost.
 Grieshuber (1998), Lambillionea 98(1)(Tome 2): 126-134, 98(3)(Tome 2): 453-468, and (1998) 98(4)(Tome 1): 509-522, revised this species, and proposed the following synonymy.
- = *melinos* Eversmann, 1847
 Bull. Soc. Imp. Nat. Moscou 20(2)(3): 72-73, no. 7, pl. 3, figs. 3 ♂ D, 4 ♂ V, 5 ♀ D, 6 ♀ V.
Original Combination: *Colias Melinos*
Type Locality: "Sibiria orientali"; suggested to be "environs of Ulan-Ude" by Grieshuber (2004), Helios 5: 8. [Republic of Buryatia, Russia]
Types: Lectotype in ZIN, designated by Grieshuber (2004), Helios 5: 6-7, pl. 1, fig. 12 ♂ D.
 - = *chloe* Eversmann, 1847
 Bull. Soc. Imp. Nat. Moscou 20(2)(3): 73-74, no. 8, pl. 4, figs. 1 ♂ D, 2 ♂ V.
Original Combination: *Colias Chloë*
Type Locality: "Sibiria orientali, in provincia Irkutskensi, circa Kiachtam"; suggested to be "environs of Ulan-Ude" by Grieshuber (2004), Helios 5: 6. [Republic of Buryatia, Russia]
Types: Lectotype in ZIN, designated by Grieshuber (2004), Helios 5: 5-6, pl. 1, fig. 10 ♂ D.
 - = *magna* Rühl, 1893
 In: Heyne, Palae. Grossschmett. 1(3): 153.
Original Combination: [*Colias Melinos*] var. *magna*
Type Locality: "Baikalien" [Republic of Buryatia, Russia]
Types: Location type(s) not known.
 - = *alpina* Elwes, 1899
 Trans. Entomol. Soc. Lond.(4)1899(3): 304, 319-320.
Original Combination: *Colias melinos* var. *alpina*
Type Locality: "the high bare mountains south of the Tchuja Steppe" Elwes' earlier itinerary (pages 298-299) allows the further definition to "Tachety River, Tschuja Steppe, 30 mi S Kuch Agatch, Altai Republic, Altay Kray, Russia." [Altai Mountains, Altai Republic, Altay kray, Russia]
Types: Syntypes in BMNH, ZMHB, and ZIN.
 - = *vitimensis* Austaut, 1899
 Naturaliste (2)13(307): 284.
Original Combination: *Colias Melinos* V[ar]. *Vitimensis*
Type Locality: "des régions alpines de la Sibirie orientale, où la rivière Vitim va se jeter dans le fleuve Lèna" [Sakha Autonomous Republic, Russia]
Types: Syntypes possibly in BMNH.
 - = *herzi* Staudinger, 1901
 In: Staudinger and Rebel, Cat. Lepid. Palae. (3rd ed.): 15, no. 90a; cited *Colias melinos* Herz (1899), Dtsche. Entomol. Z. "Iris" 11(2): 235.
Original Combination: [*Colias Melinos*] v. *Herzi*
Type Locality: "Sib. S. or. (Vilui)"; lectotype from "Podeibi" [Bodajbo, Irkutskaya oblast, Russia]
Types: Lectotype in ZMHB, designated by Grieshuber, 2006, Helios 7: 79, pl. 16, fig. 4 ♂ D.
 - = *deckerti* Verity, [1909]

- Rhop. palae. (21-23): 236 [30 Apr 1909]; (30-36): pl. 72, 27 ♂ D, 28 ♀ D; ind. syst.: xxxvi [31 Oct 1911].
Original Combination: [*Colias melinos*] var. *deckerti*
Type Locality: "Monts Apfel"; suggested to be "Pokrovka" by Grieshuber (1998), Lambillionea 98(1)(Tome 2): 130-131, no. 2. [Pokrofska, Chita Oblast, Russia]
Types: Syntypes in BMNH and ZMKU; figured by Chikolovets *et al.* (2002), Butterflies Transbaikalia Siberia: pl. 7, figs. 8 ♂ D, 23 ♀ V.
- = ‡"chryseis" Verity, [1911]
 Rhop. palae. (30-36): 354, pl. 70, figs. 33 ♂ D, 34 ♀ D; ind. syst.: xxxvi.
Original Combination: [*Colias melinos*] race *chryseis*
Type Locality: "l'Amour [Amur Oblast, Russia]
Types: Syntypes in BMNH.
- = ‡"montana" Verity, [1911]
 Rhop. palae. (30-36): 354, pl. 70, figs. 37 ♂ D, 38 ♀ D; ind. syst.: xxxvi.
Original Combination: [*Colias melinos*] race *montana*
Type Locality: "l'Altai" implied from the text, "Montagnes de Tchuja, 1800-2400 m., S.E. l'Altai" from the legend to plate 70. [Altai Republic, Altay Krai, Russia]
Types: Syntypes in BMNH.
- = *montana* Bollow, 1930
In: Seitz (1931), Grossschmett. Erde 1(Suppl.)(14): 108.
Original Combination: [*Colias melinos chryseis*] Bollow adopted *Colias melinos* race *montana* Verity [1911] to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).
- = *chryseis* Bollow, 1930
In: Seitz (1931), Grossschmett. Erde 1(Suppl.)(14): 108-109.
Original Combination: [*Colias melinos chryseis*] Bollow adopted *Colias melinos* race *chryseis* Verity [1911] to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).
- = ‡"ludmilla" Hemming, 1933
 Entomol. 66(12)[847]: 278, no. 23.
Original Combination: *Colias melinos ludmilla*
 Proposed to replace *Colias melinos* race *chryseis* Verity, 1911, with the same data (Code Article 60.3).
- = *jeholensis* Matsumura, 1939
 Bull. Biogeogr. Soc. Japan 9(20): 344, no. 19; 348, no. 19, pl. 13, fig. 16 ♂ D (actually fig. 6).
Original Combination: *Colias herzi* form *jeholensis*
Type Locality: "Jehol...Mt. Kingan" [Nei Mongol Autonomous Region, China]
Types: Syntypes probably in EIHU.
- = *relicta* Kurentsov, 1970
 Butterflies Far East USSR: 38, fig. 28(4) ♂ D, fig. 29(8) ♂ genitalia.
Original Combination: *C[olias]. m[elinos]. relicta*

Type Locality: [the mountains at the source of the Okhota River, where it favors a few peaks in the Verkhoyansk Range, to an elevation of 3000 meters above sea level]; holotype from [Burgakhchan]. [Magadan Oblast, Chukotka Autonomous Okrug, Russia]

Types: Holotype in the IPBV; registered by Azarova (1986), Syst. Ecol. Lepid. Far East USSR: 122, no. 4; figured by Churkin *et al.* (2001), Helios 2: pl. 8, figs. 13 ♂ D, 16 ♂ V.

- a. ***Colias tyche kolosovae*** Churkin, Grieshuber, Bogdanov & Zamolodchikov, 2001

Atalanta 32(1/2):262.

Original Combination: *Colias tyche kolosovae*

Proposed as a replacement name for *Colias tyche olga* Churkin, Grieshuber, Bogdanov & Zamolodchikov, 2001, preoccupied, with the same data (Code Article 60.3).

= *olga* Churkin, Grieshuber, Bogdanov & Zamolodchikov, 2001

Helios 2: 109-110, pl. 9, figs. 1 ♂ D, 2 ♂ D (holotype); 3 ♂ D, 4 ♂ D, 5 ♀ D, 15 ♂ V.

Original Combination: *Colias tyche olga*

Type Locality: "Russia, East Chukotka, 20 km SE Ioni Lake, Gilmimlviem, [65° 48' N, 173° 22' W]" [Magadan Oblast, Chukotka Autonomous Okrug, Russia]

Types: Holotype in DSM.

Preoccupied by *Colias olga* Romanoff, 1882, Romanoff, 1882, Horae Soc. Entomol. Ross. 17(3/4): 127, pl. 4, figs. 1-3.

- b. ***Colias tyche thula*** Hovanitz, 1955

Wasmann J. Biol. 13(1): 2-4, fig. 1 ♂ D (holotype), ♀ D, fig. 2 ♂ V (holotype), ♀ V.

Original Combination: *Colias nastes thula*

Type Locality: "near the Meade River, Alaska Territory, Alaska, N 70° 45' x 156° 30' W" [Meade River, S of Point Barrow, Alaska]

Types: Holotype in USNM.

- c. ***Colias tyche boothii*** J. Curtis, 1835

In: Ross, Voy. Search Northwest Pass., Appendix: lxxv-lxxvi, no. 10, pl. A, figs. 3 ♂ D, 4 ♀ D, 5 ♀ V.

Original Combination: [*Colias*] *Boothii*

Type Locality: "Arctic Regions"; determined from itineraries in vol. 1 and a letter from John Ross in vol. 2, Addenda: 732-735, to be the area bounded by 69.30°-70.9° N lat. and 91.52°-93.0°W long., in the vicinity of the isthmus of Boothia Peninsula, named by the expedition. [Kitikmeot-Keewatin regions, Nunavut]

Types: Syntypes in USNM, ZMHB, BMNH and possibly UMO; figured by Verity [1907], Rhop. palae. (11/12): pl. 43, fig. 37 ♂ D, pl. 44, fig. 4 ♂ V and W. Holland (1931), Butterfly Book (rev. ed.): pl. 67, fig. 30 ♂ D, and W. Holland and Avinoff (1935), Mem. Carnegie Mus. 12(part 2, section 5): pl. 26, figs. 12, 12a ♂ D&V, 12, 13a ♀ D&V.

= *chione* J. Curtis, 1835

In: Ross, Voy. Search Northwest Pass., Appendix: lxxvi-lxxvii, no. 11, pl. A, fig. 6 ♂ D.

Original Combination: [*Colias*] *Chione*

Type Locality: "Arctic Regions"; determined from itineraries in vol. 1 and a letter from John Ross in vol. 2, Addenda: 732-735, to be the area bounded by 69.30°-70.9° N lat. and 91.52°-93.0° W long., in the vicinity of the isthmus of Boothia Peninsula, named by the expedition. [Kitikmeot-Keewatin regions, Nunavut]

Types: Syntypes in UMO and USNM; figured by Verity [1907], Rhop. palae. (30-36): pl. 71, figs. 19 ♂ D, 20 ♂ D, W. Holland (1931), Butterfly Book (rev. ed.): pl. 73, fig. 33 ♂ D and W. Holland and Avinoff (1935), Mem. Carnegie Mus. 12(part 2, section 5): pl. 26, figs. 11, 11a ♂ D&V.

355. **Colias nastes** Boisduval, 1832

a. **Colias nastes nastes** Boisduval, 1832

Icon. Hist. Lépid. Europ. 1(4): pl. 8, figs. 4 ♂ D, 5 ♂ V (1832); (24): 245-246 [1834].

Original Combination: *Colias Nastes*

Type Locality: "Cap-Nord et en Islande...Labrador" McDunnough (1928), Can. Entomol. 60(11): 270, suggested that the original figures resembled specimens from Labrador more than those from Iceland and Norway.

Types: Lectotype in USNM, designated by W. Holland and Avinoff (1935), Mem. Carnegie Mus. 12(2)(5)(II): 11, pl. 26, figs. 1 ♂ D, 1a ♂ V.

= *rossii* Guenée, 1864

Annls. Soc. Entomol. Fr. (4)4(2): 199-200.

Original Combination: *Colias Rossii*

Type Locality: Not stated. The reference to Curtis' Voyage in the text implies the area bounded by 69.30°-70.9° N lat. and 91.52°-93.0° W long., in the vicinity of the isthmus of Boothia Peninsula, named by the expedition. This is based on Ross (1835), Voy. Search Northwest Pass., itineraries in vol. 1, and a letter from John Ross in vol. 2 Addenda: 732-735. [Kitikmeot-Keewatin regions, Nunavut]

Types: Lectotype in USNM, designated by W. Holland and Avinoff (1935), Mem. Carnegie Mus. 12(2)(5): pl. 26, figs. 8, 8a ♂ D&V (lectotype), 10, 10a ♀ D&V (paralectotype); figured by Verity [1908], Rhop. palae. (17-20): pl. 49, figs. 27 ♂ D (lectotype), 28 ♀ D (paralectotype).

= *gueneei* Avinoff, 1935

In: W. Holland and Avinoff, Mem. Carnegie Mus.

12(2)(5): 13-14, no. 10, 32, pl. 27, figs. 1 ♂ D (holotype), 11 ♀ D, 21-22 ♂ D, 25-27 ♀ D, 31-32 ♂ D.

Original Combination: *Colias nastes*

gueneei subsp. nov.

Type Locality: "Southampton [sic!] Island" [Southampton Island, Nunavut]

Types: Holotype in CMNH.

= *variabilis* Verhulst, 2009

Lambillionea 109(4): 422, pl. [3], figs. 1 ♂ D, 2 ♂ V (holotype), 3 ♀ D, 4 ♀ V, 5-14 ♂ D, 19-20 ♂ V, 16-18 ♀ D.

Original Combination: *Colias nastes variabilis*

Type Locality: "Canada, Nunavut, Southampton Island, Coral Harbour, N 64°09'9178", O 083°09'9280"

Types: Holotype in J. Verhulst coll.

= ‡"standfussi" Röber, 1909

In: Seitz, Grossschmett. Erde 5(29): 91.

Original Combination: [*Colias pelidne*] form *standfussi*

Type Locality: Not stated.

Types: Syntypes probably in ZMHB.

Described in the text as a possible hybrid or aberration, and treated as unavailable on that account (Code Article 1.3.3).

= ‡"heclides" Verity, [1911]

Rhop. palae. (30-36): ind. syst.: xxxvii; cited 354, pl. 71, figs. 2 ♂ D, 3 ♀ D.

Original Combination: [*Colias nastes werdandi* *werdandi*] form *heclides*

Type Locality: "Labrador"

Types: Syntypes in BMNH.

b. *Colias nastes moina* Strecker, 1880

Bull. Brooklyn Entomol. Soc. 3(5): 34.

Original Combination: *Colias Moina*

Type Locality: "a considerable distance above Fort Churchill on west coast of Hudson's Bay" implied from the description of *Colias hela*; suggested to be "the vicinity of Eskimo Point, Northwest Territories" by Ferris (1985), Bull. Allyn Mus. (96): 31-32. [Arviat, Nunavut, Canada]

Types: Lectotype in FMNH, designated by Ferris (1985), Bull. Allyn Mus. (96): 32, figs. 109 ♂ D, 110 ♂ V.

= ‡"harperi" (Gunder, 1932)

Can. Entomol. 64(12): 278.

Original Combination: *Eurymus nastes moina* tr. f. *harperi*

Type Locality: "Ft. Churchill, Manitoba, Can."

Types: "Holotype" in AMNH.

c. *Colias nastes aliaska* O. Bang-Haas, 1927

Horae Macrolepid. 1(3): 41, pl. 5, figs. 24 ♂ D, 25 ♀ D.

Original Combination: *Colias nastes aliaska*

Type Locality: "Alaska: Rampart [*sic!*]" [Rampart]

Types: Syntypes in ZMHB; figured by Verhulst (2004), Lambillionea 104(1)(Tome 1): ♂ D&V, ♀ D&V.

= *subarctica* (McDunnough, 1928)

Can. Entomol. 60(11): 271.

Original Combination: [*Eurymus nastes*] *subarctica*

Type Locality: "Bernard Harbour, N. W. T." [Nunavut]

Types: Holotype (#2863) in CNC; figured by Ferris (1985), Bull. Allyn Mus. (96): fig. 120 ♂ D, 121 ♂ V.

= *ferrisi* Verhulst, 2004

Lambillionea 104(1)(Tome 1): 129-130, pl. 2, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ D, 9 ♂ D, 10 ♂ V, 11 ♀ D, 12 ♀ V, 13 ♂ D, 14 ♂ V, 15 ♀ D, 16 ♀ V, 17 ♂ D, 18 ♂ V, 19 ♀ D, 20 ♀ V.

Original Combination: *Colias nastes ferrisi*

Type Locality: "Canada, Yukon Terr. Dempster Hwy., Ricahrdson Mts., 980 m, env. Glacier Creek"

Types: Holotype in IRSN.

= ‡"cocandicides" Verity, [1911]

Rhop. palae. (30-36): 335 (as *rossii*), pl. 71, figs. 7 ♂ D, 8 ♀ D, 9 ♂ V (as *rossi* [sic!]); ind. syst.: xxxvii (as *cocandicides*).

Original Combination: [*Colias nastes rossii*] *cocandicides*

Type Locality: "Territoire de Barren, 114°30' long. O., 67°40' lat. N., Am. boréale" implied from the legend to plate 71. [vic. Coppermine River, Nunavut]

Types: "Types" in BMNH.

d. *Colias nastes dezhnevi* Korshunov, 1995

In: Korshunov and Gorbunov, Butterflies Asiatic Russia: 67.

Original Combination: *Colias nastes dezhnevi*

Proposed to replace *Colias nastes sibirica* Kurentsov, 1970, with the same data. (Code Article 60.3).

= ‡*sibirica* Kurentsov, 1970

Butterflies Far East USSR: 35, fig. 29(3) ♂ genitalia.

Original

Combination: C[*olias*]. n[*astes*]. *sibirica*

Type Locality: [Chukotka peninsula west to the lower reaches of the Kolyma River]; lectotype from [Chap[lin]skie] kl[yuchi], gor[naya] t[undra]. [Magadan Oblast, Chukotka Autonomous Okrug, Russia]

Types: Lectotype in IPBV, designated by Churkin *et al.* (2001), Helios 2: pl. 8 figs. 14 ♂ D, 17 ♂ V.

Preoccupied by *Colias aurora sibirica* Lederer, 1852, Verh. zool.-bot. Ges. Wien 2: 18.

e. *Colias nastes streckeri* Grum-Grshimailo, 1895

Horae Soc. Entomol. Ross. 29(1/2): 290-291, no. 2.

Original Combination: *Colias Nastes* var. *Streckeri*

Type Locality: "provincia Alberta ad Laggan"; restricted to "vicinity of...Lake Louise, Banff National Park, Alberta" by Kondla (1996), Alberta Naturalist 26(2): 40.

Types: Syntypes in BMNH, ZIN and ZMKU. A 'lectotype' in FMNH, designated by Ferris (1985), Bull. Allyn Mus. (96): 35, figs. 123 ♂ D, 124 ♂ V, is not a syntype and thus invalid.

= *dioni* Verhulst, 1999

Lambilliona 99(4)(Tome 2): 624, no. 4, pl. 2, figs. 17 ♂ D, 18 ♂ D, 19 ♂ D, 20 ♀ D.

Original Combination: *Colias nastes dioni*

Type Locality: "Canada, Alberta, Kananaskis Co., Plateau Mountain, 2650 m"

Types: Holotype in IRSN.

= ‡"obscurata" Verity, [1911]

Rhop. palae. (30-36): 354-355, pl. 71, fig. 6 ♂ D; ind. syst.: xxxvi.

Original Combination: [*Colias nastes*] race *streckeri* ab. *obscurata*

- Type Locality:** "Lake Louise, Alberta" implied from the legend to plate 71.
Types: "Holotype" in BMNH.
 = ‡"palliflava" (McDunnough, 1927)
 Can. Entomol. 59(7): 154.
Original Combination: [*Eurymus nastes streckeri*] ab. *palliflava*
Type Locality: "higher slopes of Mt. McLean (above 6500 ft.)" [British Columbia]
Types: "Holotype" (#2425) in CNC.
356. ***Colias scudderii*** Reakirt, 1865
 Proc. Entomol. Soc. Philad. 4(2): 217-218, no. 2.
Original Combination: *Colias Scudderii*
Type Locality: "Rocky Mountains, Colorado Territory"; redefined as "vic. Empire, Clear Creek County, Colorado" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 83; neotype from "east slope of Berthoud Pass along Hwy. 40 at Hoop Creek in the Arapahoe National Forest, 10,800', Clear Creek Co., Colorado"
Types: Neotype in MGCL, designated by Ferris (1987), Bull. Allyn. Mus. (112): 7, figs. 4 ♂ D, 5 ♂ V.
 = *flavotincta* Cockerell, 1901
 Psyche 9(10)[300]: 187; cited W. H. Edwards (1872), Butterflies N. Am. [1](10): pl. *Colias* 8, fig. 5 ♀ D.
Original Combination: *Colias scudderii* var. *flavotincta*
Type Locality: "New Mexico"; redefined as "upper Arkansas River Valley" or "the vicinity of Twin Lakes, Lake Co. Colorado" by Ferris (1987), Bull. Allyn Mus. (112): 8-9.
Types: Lectotype in CMNH, designated by Ferris (1987), Bull. Allyn Mus. (112): 10, figs. 14 ♀ D, 15 ♀ V.
 = *ruckesi* Klots, 1937
 J. N. Y. Entomol. Soc. 45(3/4): 324-326.
Original Combination: *Colias scudderii ruckesi*
Type Locality: "Windsor [*sic!*] Creek Canyon, west of Cowles, N. Mex." [Winsor Creek Canyon, San Miguel County, New Mexico]
Types: Holotype in AMNH.
 Ferris (1987), Bull. Allyn Mus. (112): 8, determined this synonymy.
 ‡"alba" Scott, 1986
 Butterflies N. Am.: 200, no. 42.
Original Combination: [*Colias scudderii*] form *alba*
 Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.
357. ***Colias gigantea*** Strecker, 1900
 a. ***Colias gigantea inupiat*** Harry, 2007
 Tax. Rep. Int. Lepid. Surv. 6(7): 1-2, pl 1, % D&V (holotype), & D&V.
Original Combination: *Colias gigantea inupiat*
Type Locality: "Alaska, Mile 323 Dalton Hwy, 68°59.01'N 148°49.94'W, 365 meters elevation"
Types: Holotype in MGCL.
 b. ***Colias gigantea gigantea*** Strecker, 1900
 Lepid. Rhop. Het. (suppl. 3): 19.
Original Combination: *Colias pelidne* var. *gigantea*
Type Locality: "west coast Hudson Bay, above Fort York" [York Factory, Manitoba]

Types: Lectotype in FMNH, designated by Ferris (1987), Bull. Allyn Mus. (112): 14, figs. 30 ♂ D, 31 ♂ V.

= *pelidneides* Staudinger, 1901

In: Staudinger and Rebel, Cat. Lepid. Palae. (3rd ed.): 15, no. 86i.

Original Combination: [*Colias Palaeno*]

v. *Pelidneides*

Type Locality: "Amer. bor. (Hudson Bay, Alaska)"; defined as "Hudson Bay" by Ferris (1987), Bull. Allyn Mus. (112): 14. [Manitoba]

Types: Syntypes in ZMHB; "types" figured by Verity [1911], Rhop. palae. (30-36): pl. 68, figs. 47 ♂ D, 48 ♀ D, labeled "Hudson Bay, Alaska."

c. *Colias gigantea mayi* F. Chermock & R. Chermock, 1940

Can. Entomol. 72(4): 81.

Original Combination: *Colias christina mayi*

Type Locality: "Riding Mountains, Manitoba"

Types: Holotype in CNC.

= *nortepacifica* Hammond & McCorkle, 2008

J. Lepid. Soc. 62(4): 214, figs. 1(24) ♂ D (holotype), (25) ♂ D.

Original Combination: *Colias scudderii*

nortepacifica

Type Locality: "British Columbia, Nimpo Lake" [Canada]

Types: Holotype in OSAC.

Hammond & McCorkle described this taxon based on three male specimens. It is uncertain whether this is a valid taxon as described, a synonym of some other *Colias gigantea* subspecies, or even *Colias occidentalis*. Until such time as this can be determined, this name is listed here.

= ‡"marjorie" F. Chermock & R. Chermock, 1940 Can. Entomol. 72(4): 82.

Original Combination: *Colias christina mayi* ♀ form *marjorie*

Type Locality: "Riding Mountains, Manitoba"

Types: "Holotype" in CNC.

d. *Colias gigantea harroweri* Klots, 1940

Am. Mus. Novit. (1054): 4-6.

Original Combination: *Colias gigantea harroweri*

Type Locality: "Clear Creek, vicinity Lower Green River Lake, Sublette Co., Wyo., alt. 8400 ft." [Wyoming]

Types: Holotype in AMNH; figured by Howe (1975), Butterflies N. Am.: pl. 97, fig. 20 ♂ D&V.

= *gracemma* Hammond & McCorkle, 2008

J. Lepid. Soc. 62(4): 208, figs. 1(6) ♂ D (holotype), (7) ♂ V, (8) ♂ V, (9) ♀ D, (10) ♀ V, (11) ♀ V.

Original Combination: *Colias scudderii gracemma*

Type Locality: "Wyoming, Johnson County, summit of Big Horn Mountains near Cloud Peak Wilderness Area"

Types: Holotype in OSAC.

= *kohleri* Hammond & McCorkle, 2008

J. Lepid. Soc. 62(4): 209-210, figs. 1(17) ♂ D (holotype), (18) ♂ V, (19) ♀ D, (20) ♀ D.

Original Combination: *Colias scudderii kohleri*

- Type Locality:** "Montana, Beaverhead County, summit of the Pioneer Mountains"
Types: Holotype in OSAC.
358. **Colias pelidne** Boisduval & Le Conte, [1830]
 a. **Colias pelidne pelidne** Boisduval & Le Conte, [1830]
 Hist. Lépid. Amér. sept. (7): pl. 21, figs. 4 ♂ D, 5 ♂ V;
 (8): 66-67; figured by Boisduval (1832), Icon. Hist. Lépid.
 Europ. 1(4): pl. 8, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V.
Original Combination: *C[olias]. Pelidne*
Type Locality: "Groenland et l'Islande...Labrador";
 inferred from the figures to be "NE coast of Labrador" by
 Ferris (1988), Bull. Allyn Mus. (122): 9. [Newfoundland
 and Labrador]
Types: A "type" may be in USNM, but Calhoun (2004),
 J. Lepid. Soc. 58(3): 156, discussed the dubious nature
 of such Boisduval "types."
 = *labradorensis* Scudder, 1862
 Proc. Boston Soc. Nat. Hist. 9: 107-108, 1
 unnumbered fig.
Original Combination: *Colias labradorensis*
Type Locality: "Caribou Island, Strait of Belle Isle,
 Labrador" [Newfoundland and Labrador]
Types: Lectotype (#5082) in MCZ, designated by
 Ferris (1988), Bull. Allyn Mus. (122): 10, figs. 28 ♂
 D, 29 ♂ V.
 = ‡"moeschleri" Grum-Grshimailo, 1894
 Horae Entomol. Soc. ross. 27(3/4): 379, no. 1.
Original Combination: *Colias Pelidne* ab.
 ♀ *Moeschleri*
Type Locality: "Labrador" [Newfoundland and
 Labrador]
Types: "Holotype" in ZMHB; figured by Verity
 [1911], Rhop. palae. (30-36): pl. 68, fig. 50 ♀ D.
 = ‡"mira" Verity, [1911]
 Rhop. palae. (30-36): 347; pl. 68, fig. 49 ♂ D
 ("holotype"); ind. syst.: xxxiv.
Original Combination: [*Colias pelidne*] ab. *mira*
Type Locality: "Ravea dans le Labrador"
 [Newfoundland and Labrador]
Types: "Holotype" in BMNH.
 ‡"alba" Scott, 1986
 Butterflies N. Am.: 200, no. 41.
Original Combination: [*Colias pelidne*]
 form *alba*
 Proposed as a "form" with no nomenclatural
 standing; a *nomen nudum*.
 ‡"canda" Raineri & Carnevale, 1998
 Annali Mus. civ. Storia nat. "Giacomo Doria" 92:
 267.
Original Combination: *Colias pelidne* v. *canda*
chippewa
 Proposed without a description or indication;
 a *nomen nudum*.
 b. **Colias pelidne skinneri** W. Barnes, 1897
 Can. Entomol. 29(2): 41-42.
Original Combination: *Colias pelidne*, var. *Skinneri*

Type Locality: “Yellowstone National Park...Arangie, Idaho”; lectotype from “Yellowstone National Park.” [Wyoming]

Types: Lectotype in USNM, designated by W. Barnes and Benjamin (1926), Bull. South. Calif. Acad. Sci. 25: 89; figured by Ferris (1988), Bull. Allyn Mus. (122): figs. 43 ♀ D, 44 ♀ V; “types” figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 67, figs. 20 ♂ D, 21 ♀ D.

= *minisni* W. Barnes & McDunnough, 1916

Contr. Nat. Hist. Lepid. N. Am. 3(2): 67, pl. 7, fig. 7 ♂ D, cited Bean (1895), Psyche 7(228): 228.

Original Combination: [*Eurymus pelidne*] *minisni*

Type Locality: “Laggan, Alta.” [Alberta]

Types: Holotype in USNM.

This taxon was described by indication (Code Articles 12.1, 12.2); this name was listed without a description or indication by Bean (1895), *ibid*, a *nomen nudum*.

= ‡“neri” (W. Barnes & Benjamin, 1926)

Bull. South. Calif. Acad. Sci. 25(3): 89, no. 69b.

Original Combination: *Eurymus pelidne skinneri* form ♀ *neri*

Type Locality: “Yellowstone Park, Wyo.” [Wyoming]

Types: “Holotype” in USNM; figured by Ferris (1988), Bull. Allyn Mus. (122): figs. 45 ♀ D, 46 ♀ V.

= ‡“isni” (W. Barnes & Benjamin, 1926)

Bull. South. Calif. Acad. Sci. 25(3): 89, no. 69c.

Original Combination: *Eurymus pelidne minisni* form ♀ *isni*

Type Locality: “Laggan, Alta.” [Alberta]

Types: “Holotype” in USNM; figured by Ferris (1988), Bull. Allyn Mus. (122): figs. 47 ♀ D, 48 ♀ V.

359. *Colias interior* Scudder, 1862

Proc. Boston Soc. Nat. Hist. 9: 108-109, 1 unnumbered fig.

Original Combination: *Colias interior*

Type Locality: “Northern shore of Lake Superior...mouth of the Sakatchewan River, British America”; defined as “the Portage at the rapids near the mouth of the Saskatchewan River” by H. Hagen (1883), Proc. Boston Soc. Nat. Hist. 22: 159; further defined as “Mouth of the Saskatchewan River, vic. Grand Rapids, W. shore of Lake Winnipeg, Manitoba” by Ferris (1988), Bull. Allyn Mus. (122): 2.

Types: Holotype (#5081) in MCZ, figured by Ferris (1988), Bull. Allyn Mus. (122): figs. 1 ♂ D, 2 ♂ V.

= *laurentina* (Scudder, 1876)

Proc. Boston Soc. Nat. Hist. 18(2): 190.

Original Combination: [*Eurymus Philodice*] var. *laurentina*

Type Locality: “Cape Breton Island” implied from title of paper; neotype from “Baddeck, Cape Breton I., Nova Scotia”

Types: Neotype in CNC, designated by Ferris (1988), Bull. Allyn Mus. (122): 7, figs. 24 ♂ D, 25 ♂ V; a pseudotype (#29299) in MCZ.

= *vividior* Berger, 1945

Lambillionea 45(6-8): 42.

Original Combination: [*Colias interior*] *vividior*
Type Locality: "Wisconsin (Eagle River et Oneida)"
 [Vilas and Outagamie counties]
Types: Holotype probably in MRAC (Berger collection).
 = ‡"nepi" (W. Barnes & Benjamin, 1926)
 Bull. South. Calif. Acad. Sci. 25(3): 89, no. 65.
Original Combination: *Eurymus interior* form
 [♀] *nepi*
Type Locality: "Nepigon [sic!], Ontario" [Nipigon,
 Thunder Bay County, Ontario]
Types: "Holotype" in USNM.
 ‡"solivaga" W. H. Edwards, 1877
 Trans. Am. Entomol. Soc. 6(1): 17, under no. 68.
Original Combination: *Colias Solivaga*
 Published in the synonymy of *interior* without a
 description or indication; a *nomen nudum*.
 ‡"alba" Scott, 1986
 Butterflies N. Am.: 199, no. 39.
Original Combination: [*Colias interior*] form *alba*
 Proposed as a "form" with no nomenclatural
 standing; a *nomen nudum*.

- *360. ***Colias palaeno*** (Linnaeus, 1761)
 Fauna Svecica (ed. 2): 272, no. 1041.
Original Combination: *Papilio [Heliconius] Palaeno*
Type Locality: "Pteride rarissime Uppsaliae, frequentior in
 Finlandia" [Uppsala, South Uppland, Sweden and Finland]
Types: Syntypes in LSUK.
 Most of the Palaearctic synonymy is not included.
 = *philomene* Hübner, [1805]
 Samml. europ. Schmett. 1: pl. 117, figs. 602 ♂ D, 603 ♂
 V [1805]; pl. 147, figs. 740 ♀ D, 741 ♀ V [1816].
Original Combination: [*Papilio*] *Philomene*
Type Locality: Not stated.
Types: Location of type(s) not known, probably lost.
 = *lapponica* Staudinger, 1871
 In: Staudinger and Wocke, Cat. Lepid. Europ. (2nd ed.):
 5, no. 58a; cited Herrich-Schäffer (1848), Syst. Bearb.
 Schmett. Europa 1(36): pl. 85, figs. 403 ♀ D, 404 ♀ V.
Original Combination: [*Colias Palaeno*] v. *Lapponica*
Type Locality: "Lap. Ross. s." [Murmanskaya Oblast,
 Russia]
Types: Location of type(s) not known.
 a. ***Colias palaeno chippewa*** W. H. Edwards, 1870
 Syn. Butterflies N. Am.: 8, no. 15.
Original Combination: *Colias Chippewa*
Type Locality: "Great Slave Lake" [Northwest
 Territories]
 Proposed to replace *Colias helena* W. H. Edwards,
 1863, preoccupied, with the same data (Code Article
 60.3).
 Some authors have treated *chippewa* as a species
 distinct from *palaeno* (e.g., Maey (1986), Mitt. Arbeitsg.
 westfälischer Lepid. Entomol. Ver. Beiheft 1: 70, Tuzov
 (1996), Actias 2(1/2): 106). These have been anecdotal
 and a thorough analysis of taxa occurring on both sides
 of the Bering Straits is necessary; see Grieshuber and
 Worthy (2004), Helios 5: 32-36.
 = ‡*helena* W. H. Edwards, 1863

Proc. Entomol. Soc. Philad. 2(2): 78, 80, no. 3; figured by W. H. Edwards (1868), Butterflies N. Am. [1](2): pl. Colias 1, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D.

Original Combination: *Colias Helena*

Type Locality: "Mackenzie's River"; lectotype from "Slave Lake"; defined as "near the west end of Great Slave Lake, North West Territory, Canada" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 54.

Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 55, fig. 11 ♂ [not ♀] D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 68, fig. 30 ♂ D.

Preoccupied by *Colias helena* Herrich-Schäffer, 1844, Europ. Schmett. 1(7): pl. 45, figs. 206-207.

= ‡"kohlsaati" (Gunder, 1931)

Bull. South. Calif. Acad. Sci. 30(2): 45.

Original Combination: *Eurymus chippewa* form ♀ *kohlsaati*

Type Locality: "Mt. McKinley Nat. Park, Alaska" [Denali National Park]

Types: "Holotype" in AMNH.

- b. *Colias palaeno baffinensis*** Ebner & Ferris, [1978]
J. Res. Lepid. 16(3): 156, 159-160, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Colias palaeno baffinensis*

Type Locality: "Frobisher Bay, Baffin Island, N. W. T., Canada" [Nunavut]

Types: Holotype in AMNH.

- 361. *Colias behrii*** W. H. Edwards, 1866
Proc. Entomol. Soc. Philad. 6(2): 200, 201, no. 2; figured by W. H. Edwards (1868), Butterflies N. Am. [1](2): pl. Colias 2, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D.

Original Combination: *Colias Behrii*

Type Locality: "Yo Semite Mountains at an elevation of about 10,000 feet above the sea"; defined as "vicinity of Tioga Pass, Tuolumne-Mono counties, California" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 51-52.

Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 52, fig. 10 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 36, fig. 17 ♂ D.

= ‡"canescens" (J. A. Comstock, 1925)
Bull. South. Calif. Acad. Sci. 24(1): 3; 25(2): pl. 16, fig. 4 ♀ D ("holotype").

Original Combination: *Eurymus behrii* form *canescens*

Type Locality: "Tioga Pass, Yosemite, Calif." [Tuolumne-Mono counties, California]

Types: "Holotype" in LACM; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 16, fig. 4 ♀ D. The text clearly indicates that this taxon was described for the whitish female form.

Genus *Zerene* Hübner, [1819]

Verz. bekannt. Schmett. (7): 97. Type-species: *Papilio cesonja* Stoll, 1790, Aanhangs. Werk Uitl. Kapellen Pieter Cramer (3): 176-177, pl. 41, figs. 2, 2b; 382 (index), by designation of Scudder (1872),

4th Ann. Rep. Peabody Acad. Sci. (1871): 59. Pollock *et al.* (1998), Ann. Entomol. Soc. Am. 91(5): 524-531, suggested that *Colias* and *Zerene* may be sister taxa.

- = ‡*Megonostoma* Reakirt, [1864]
Proc. Entomol. Soc. Philad. 2(3): 356. Type-species: *Papilio cesonia* Stoll, 1790, Aanhangs. Werk Uitl. Kapellen Pieter Cramer (3) : 176-177, pl. 41, figs. 2, 2b; 182 (index), by designation of Butler (1870), Cist. Entomol. 1(3): 46. A junior objective synonym of *Zerene* Hübner, [1819].

362. ***Zerene cesonia*** (Stoll, 1790)

a. ***Zerene cesonia cesonia*** (Stoll, 1790)

Aanhangs. Werk Uitl. Kapellen Pieter Cramer (3): 176-177, pl. 41, figs. 2 ♂ D, 2b ♂ V; 382 (index).

Original

Combination: *Pap[ilio]. Dan[aus]. Cand[idus] Cesonia*

Type Locality: "Georgien in Noord-America" "Georgie, dans l'Amerique Septentrionale" [Georgia]

Types: Syntype(s) probably in RMNH (Raye van Breukelerwaerth collection), as noted by Lamas (1993), Shilap Revta. Lepid. 21(83): 144, no. 28.

This name was spelled "sesonia" in the French text (p. 176), representing an incorrect original spelling (it is spelled *cesonia* in the Dutch text and index); it has widely been misspelled as "*caesonia*," attributable to Godart (1819), *in*: Ency. méth. 9(Ins.)(1): 98, no. 31.

- = *philippa* (Fabricius, 1793)
Entomol. Syst. 3(1): 211, no. 660.

Original Combination: *P[apilio]. D[anaus]. Philippa*

Type Locality: Not stated.

Types: Type(s) probably lost.

- = *centralamericana* (Röber, 1909)
In: Seitz, Grossschmett. Erde 5(29): 93.

Original

Combination: [*Maganostoma* [sic!] *cesonia*] *central americana*

Type Locality: Not stated; lectotype from "Honduras."

Types: Lectotype in ZMHB, designated by Lamas (1993), Revta Lepid. 21(83): 144, no. 28.

- = *rosea* (Röber, 1909)
In: Seitz, Grossschmett. Erde 5(29): 94.

Original

Combination: [*Maganostoma* [sic!] *cesonia*] *rosea*

Type Locality: "Colorado"

Types: Lectotype in ZMHB, designated by Lamas (1993), Revta Lepid. 21(83): 152, no. 110.

- = ‡"*rosa*" (M'Neill, 1889)
Can. Entomol. 21(3): 43-45.

Original Combination: [*Colias caesonia*] [female...dimorphic or...aberrant form] *rosa*

Type Locality: "low-lying field, on the banks of the Mississippi, three miles east of Moline" [Rock Island County, Illinois]

Types: Type(s) probably lost.

- = ‡"*immaculsecunda*" Gunder, 1928
Pan-Pac. Entomol. 4(3): 102, pl. 2, top row, left ("holotype"), bottom row, left.

Original Combination: *Zerene caesonia*
immaculsecunda form ♀

Type Locality: "Pinery Canyon, Arizona"
[Cochise County]

Types: "Holotype" in AMNH.

Neck (1981), J. Lepid. Soc. 35(1): 223-224,
determined that this name probably represents a
migratory form.

= ‡"stainkeae" (W. D. Field, 1936)
J. Entomol. & Zool. 28(2): 20.

Original Combination: *Colias (Zerene)*
caesonia tr. f. *stainkeae*

Type Locality: "Donna, Texas" [Hidalgo County]

Types: "Holotype" in USNM.

= ‡"albida" Vázquez, 1949
An. Instit. Biol., Univ. Nac. Auton. Méx. (Zool.)
19(2): 470-471.

Original Combination: *Zerene*
caesonia f[orma]. *albida*

Type Locality: "Tierra Blanca, Ver." [Veracruz,
Mexico]

Types: "Holotype" in MGCL.

363. ***Zerene eurydice*** (Boisduval, 1855)

Bull. Soc. Entomol. Fr. (3)3(1): xxxii.

Original Combination: *Colias Eurydice*

Type Locality: "des montagnes de la Californie"; defined as
"vicinity of Alpine Dam, Lagunitas Creek, Marin County,
California" by J. Emmel *et al.* (1998), Syst. W. N. Am.
Butterflies (2): 23.

Types: Lectotype in USNM, designated by J. Emmel *et al.*
(1998), Syst. W. N. Am. Butterflies (2): 23, figs. 156 ♂ D, 157
♂ V.

= *lorquini* (Boisduval, 1855)
Bull. Soc. Entomol. Fr. (3)3(1): xxxii.

Original Combination: *Rhodocera Lorquini*

Type Locality: "des montagnes de la Californie";
defined as "vicinity of Alpine Dam, Lagunitas Creek,
Marin County, California" by J. Emmel *et al.* (1998), Syst.
W. N. Am. Butterflies (2): 24.

Types: Lectotype in USNM, designated by J. Emmel *et al.*
(1998), Syst. W. N. Am. Butterflies (2): 24, figs. 156 ♂
D, 157 ♂ V.

= *wosnesenskii* (Ménétriés, 1855)
Enum. corp. anim. (1): 14 (as *wosnesenskii*); 77-78, no.
253 (as *wosnesenskii*), pl. 1, fig. 4 ♂ D&V
(as *wosnesenskii*).

Original Combination: *Colias Wosnesenskii*

Type Locality: "Nouvelle Californie" [California]

Types: Syntype(s) should be in ZIN.

Lamas (2004d), Atl. Neotrop. Lepid. Chcklst. Part 4A:
103, made a first reviser choice
of *wosnesenskii* over *wosnesenskii*.

= *helena* (Reakirt, [1864])
Proc. Entomol. Soc. Philad. 2(3): 358, no. 2.

Original Combination: *Megonostoma Helena*

Type Locality: "?Chiapas" probably in error.

Types: Syntype in FMNH.

= *bernardino* (W. H. Edwards, 1887)

Butterflies N. Am. 3(1): [71-72], pl. *Colias* 1, figs. 1 ♂ D, 2 ♂ V (lectotype), 3 ♀ D.

Original Combination: [*Colias Eurydice*] Bernardino

Type Locality: "San Bernardino" [San Bernardino County, California]

Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 97, fig. 23 ♂ D&V.

It is possible that this name was intended for an infrasubspecific form, but this is not clear from the text.

= ‡"amorphae" (Hy. Edwards, 1877)
Proc. Calif. Acad. Sci. [1]7(13): 169.

Original

Combination: *C[olias]. eurydice* Var. *Amorphae*

Type Locality: "Mendocino County" [California]

Types: "Holotype" in AMNH.

The text clearly indicates that this taxon was described as an individual variant.

= ‡"fanniae" Gunder, 1924
Entomol. News 35(5): 158, pl. 2, fig. K ♂ D ("holotype").

Original Combination: *Zerene eurydice* ab.
♂ *fanniae*

Type Locality: "San Bernardino Mts., San Bernardino Co., California"

Types: "Holotype" in AMNH; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 12, fig. 8 ♂ D.

= ‡"newcombi" Gunder, 1925
Entomol. News 36(1): 4, no. 7, pl. 1, fig. R ♂ D ("holotype").

Original Combination: *Zerene eurydice* ab.
♂ *newcombi*

Type Locality: "San Bernardino Mountains, San Bernardino County, California"

Types: "Holotype" in AMNH; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 12, fig. 10 ♂ D.

= ‡"masumbrosus" Gunder, 1928
Pan-Pac. Entomol. 4(3): 100-101, pl. 1, figs. 1-6 ♀ D; fig. 3 ("holotype").

Original Combination: *Zerene eurydice*
masumbrosus form ♀

Type Locality: "California"

Types: "Holotype" in AMNH.

= ‡"lineainita" Gunder, 1928
Pan-Pac. Entomol. 4(3): 101-102, pl. 1, top row, fifth ("holotype").

Original Combination: *Zerene eurydice*
lineainita form ♂

Type Locality: "San Bernardino mountains, California" [San Bernardino and Riverside counties]

Types: "Holotype" in AMNH.

= ‡"doudoroffi" Gunder, 1932
Pan-Pac. Entomol. 8(3): 125.

Original Combination: *Zerene eurydice* tr.
f. *doudoroffi*

Type Locality: "Lake Alpine, Fairfax, Marin County, California"

- Types:** "Holotype" in AMNH.
- = ‡"nigrocapitata" Riddell, 1941
Trans. R. Entomol. Soc. Lond. 91(9): 452 pl. 1, fig. 4
♀ D ("holotype").
Original Combination: *Zerene eurydice* ab. *nigrocapitata*
Type Locality: "California: Mill Creek Canyon, San Bernardino Mountains...5000 feet" [San Bernardino County]
Types: "Holotype" in CAS.
- = ‡"marginata" Riddell, 1941
Trans. R. Entomol. Soc. Lond. 91(9): 453, pl. 1, fig. 6
♀ D ("holotype").
Original Combination: *Zerene eurydice* form *marginata*
Type Locality: "California: San Bernardino Mountains, 5000 feet above sea level" [San Bernardino and Riverside counties]
Types: "Holotype" in CAS.
- = ‡"flavolineata" Riddell, 1941
Trans. R. Entomol. Soc. Lond. 91(9): 454, pl. 2, fig. 1
♂ D ("holotype").
Original Combination: *Zerene eurydice* ab. *flavolineata*
Type Locality: "California: San Bernardino Mountains, 5000 feet above sea level" [San Bernardino and Riverside counties]
Types: "Holotype" in CAS.
- = ‡"rubrosuffusa" Riddell, 1941
Trans. R. Entomol. Soc. Lond. 91(9): 452, pl. 2, figs. 8 ♂ V ("holotype"), 9 ♂ D, pl. 3, fig. 7 ♂ V.
Original Combination: *Zerene eurydice* form *rubrosuffusa*
Type Locality: "California: San Bernardino Mountains, 5000 feet above sea level" [San Bernardino and Riverside counties]
Types: "Holotype" in CAS.
‡"alba" (Scott, 1986)
Butterflies N. Am.: 202, no. 45.
Original Combination: [*Colias eurydice*] form *alba*
Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

Genus *Anteos* Hübner, [1819]

Verz. bekannt. Schmett. (7): 99. Type-species: *Papilio maerula* Fabricius, 1775, Syst. Entomol.: 479, no. 157, by designation of Godman and Salvin (1889), Biol. centr.-amer., Lepid. Rhop. 2(79): 148.

- = ‡*Amynthia* Swainson, 1831
Zool. Illustr. (2)2(14): pl. 65 [actually 63], unnumbered text.
Type-species: *Papilio maerula* Fabricius, 1775, Syst. Entomol.: 479, no. 157, by original designation. A junior objective synonym of *Anteos* Hübner, [1819].
- = *Klotsius* Hemming, 1964
Annot. Lepid. (4): 148. Type-species: *Mancipium menippe* Hübner, [1818], Samml. exot. Schmett. 1: pl. [147], figs. 1, 2, by original designation.

364. ***Anteos clorinde*** (Godart, [1824])
In: Ency. méth. 9(Ins.)(2): 813-814, nos. 1-2.

Original Combination: *Colias Clorinde*

Type Locality: "Brésil" [Brazil]

Types: Syntype(s) in MNHP.

- = *swainsonia* (Swainson, 1831)
Zool. Illustr. (2)2(14): pl. 65 [actually 63] ♂ D&V,
unnumbered text.

Original Combination: *Amynthia Swainsonia*

Type Locality: "interior of Pernambuco...Brazil"

Types: Type(s) probably lost; collection auctioned in 1840.

- = *godarti* (Perty, 1833)
Delect. Anim. Art. Bras. (3): 152, pl. 29, figs. 4 ♂ D, 4b ♂ V.

Original Combination: *Colias Godarti*

Type Locality: "Piauhy" [Piauí, Brazil]

Types: Location of type(s) not known, probably lost.

- = *nivifera* (Fruhstorfer, 1907)
Stettiner Entomol. Ztg. 68(2): 294.

Original Combination: [*Rhodocera*] *maerula nivifera*

Type Locality: "Honduras"

Types: Holotype may be in ZSMC.

- = ‡"atromarginatus" Vázquez, 1952
An. Instit. Biol., Univ. Nac. Auton. Méx. (Zool.) 22(2): 535, fig. 1 ♀ D ("holotype").

Original Combination: *Anteos clorinde* f[orma].
fem[inina]. *atromarginatus*

Type Locality: "Tierra Blanca, Ver." [Veracruz, Mexico]

Types: "Syntypes" in MGCL.

365. **Anteos maerula** (Fabricius, 1775)

Syst. Entomol.: 479, no. 157.

Original

Combination: *P[apilio]. D[anaus]. C[andidus]. Maerula*

Type Locality: "America"; provisionally determined be "Jamaica" by D. Bates (1935), Bull. Harvard Mus. Comp. Zool. 78(2): 139; stated as "probably Jamaica" by Klots (1951), Field Guide Butterflies N. Am.: 190.

Types: Syntypes in HMUG.

- = *lacordairei* (Boisduval, 1836)
Spec. gén. Lépid. 1: 600, no. 3.

Original Combination: *Rhodocera Lacordairei*

Type Locality: "Mexique"

Types: Syntype in MNHP.

As first revisers, L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 85, accorded precedence to *lacordairei* over *gueneeana*.

- = *gueneeana* (Boisduval, 1836)
Spec. gén. Lépid. 1: 601, no. 5.

Original Combination: *Rhodocera Gueneeana*

Type Locality: "Mexique"

Types: Syntype in BMNH.

- = ‡"flava" (Röber, 1909)
In: Seitz, Grossschmett. Erde 5(26): 89.

Original Combination: [*Gonepteryx maerula*]
ab. *flava*

Type Locality: Not stated; lectotype from "Cuba."

Types: "Lectotype" in MTD, designated by Lamas (1995), Shilap Revta. Lepid. 23(91): 344.

Genus **Phoebis** Hübner, [1819]

Verz. bekannt. Schmett. (7): 98. Type-species: *Phoebis cypris* Hübner, [1819], Verz. bekannt. Schmett. (7): 98, no. 1044 (and unjustified emendation of *Papilio cipris* Cramer, 1777, Uitl. Kapellen 2(9): 5, pl. 99, figs. E, F; (16): 148 (index); = *Papilio argante* Fabricius, 1775, Syst. Entomol.: 470, no. 116; synonym), by designation of Butler (1873), Lepid. Exot. (13): 155.

= ‡*Colias* Hübner, [1819]

Verz. bekannt. Schmett. (7): 99. Type-species: *Papilio sennae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 470, no. 72, by designation of Hemming (1939), Proc. R. Entomol. Soc. Lond. (B)8(7): 136. Preoccupied by *Colias* [Fabricius], 1807, in: Illiger, Mag. f. Insektenk. 6: 284.

= *Callidryas* Boisduval & Le Conte, [1830]

Hist. Lépid. Amér. sept. (8): 73. Type-species: *Papilio eubule* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 764, no. 102 (= *Papilio sennae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 470, no. 72; synonym), by designation of Blanchard (1840), in: Castelnau, Hist. Nat. Ins. 3: 432.

= ‡*Metura* Butler, 1873

Lepid. Exot. (13): 155. Type-species: *Callidryas bracteolata* Butler, 1865, Proc. Zool. Soc. Lond. 1865(2): 458, pl. 26, fig. 6 (= *Colias neocypris* Hübner, [1823], Samml. exot. Schmett. 2: pl. [136], figs. 1, 2; synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 218, no. 695. Preoccupied by *Metura* Walker, 1855, in: Allen's Nat. Libr., Lepid. 2: 229.

= *Parura* W. F. Kirby, 1896

In: Allen, Nat. Libr. Lepid. 2: 229. Type-species: *Callidryas bracteolata* Butler, 1865, Proc. Zool. Soc. Lond. 1865(2): 458, pl. 26, fig. 6 (= *Colias neocypris* Hübner, [1823], Samml. exot. Schmett. 2: pl. [136], figs. 1, 2; synonym), as a replacement name. Proposed to replace *Metura* Butler, 1873, preoccupied (Code Articles 60.3, 67.8).

366. **Phoebis sennae** (Linnaeus, 1758)

a. **Phoebis sennae sennae** (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 470, no. 72; cited Sloane (1725), Voy. Mad. Barb. Niev. St. Christ. Jam. 2: pl. 236, figs. 11, 12, and Merian (1705), Ins. Surinam.: pl. 58, among others.

Original Combination: *P[apilio]. D[anaus] Candidus*. *Sennae*

Type Locality: "Americas"; possibly "Jamaica" from reference to Sloane.

Types: Type(s) apparently lost, as noted by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 379.

= ‡"sennalba" F. Brown, 1929

Am. Mus. Novit. (368): 8-9.

Original Combination: *Phoebis eubule sennae* female form *sennalba*

Type Locality: "7 kilometers north of Viñales, Cuba" [Pinar del Rio]

Types: "Holotype" in AMNH.

b. **Phoebis sennae eubule** (Linnaeus, 1767)

Syst. Nat. (ed. 12) 1(2): 764, no. 102; cited G. Edwards (1760) Glean. Nat. Hist. 2: pl. 304.

Original Combination: *P[apilio]. D[anaus] Candidus* *Eubule*

Type Locality: "Carolina"; suggested to be "vic. of Charleston, South Carolina" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 86. [Charleston County]

Types: Type(s) apparently lost.

= *drya* (Fabricius, 1775)
Syst. Entomol.: 478, no. 153.

Original

Combination: *P[apilio]. D[anaus]. C[andidus]. Drya*

Type Locality: "America"; suggested to be "vic. of Charleston, South Carolina" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 86. [Charleston County]

Types: Type(s) probably lost.

= ‡"pallida" (Cockerell, 1889)
Entomol. 22(308): 5; cited French (1886),
Butterflies E. U. S.: 122.

Original Combination: *Callidryas sennae pallida* ♀

Type Locality: Not stated.

Types: "Type" is apparently lost.

= ‡"lichas" (d'Almeida, 1922)
Mélanges Lépid. 1: 56, no. 43; cited Boisduval
and Le Conte [1830], Hist. Lépid. Amér. sept.
(8): pl. 24, fig. 3 ♀ V.

Original Combination: [*Catopsilia Eubule*]
Form. aberr. *Lichas*

Type Locality: Not specifically stated, but
probably "Georgia" based on the figures by John
Abbot in Boisduval and Le Conte.

Types: Described, at least in part, from a John
Abbot drawing. The specimens upon which this
drawing was based are presumed lost. A
"syntype" is in USNM, but Calhoun (2004), J.
Lepid. Soc. 58(3): 156, discussed the dubious
nature of such "types" from the Boisduval
collection.

= ‡"browni" W. D. Field, 1936
J. Entomol. & Zool. 28(2): 20.

Original Combination: *Phoebis sennae* race *eubule* female f. *browni*

Type Locality: "Lawrence, Kansas" [Douglas
County]

Types: "Holotype" in USNM.

‡"alba" Scott, 1986
Butterflies N. Am.: 204, no. 50.

Original Combination: [*Phoebis sennae* ♀]
form *alba*

Proposed as a "form" with no nomenclatural
standing; a *nomen nudum*.

‡"rosa" Scott, 1986
Butterflies N. Am.: 204, no. 50.

Original Combination: [*Phoebis sennae*] winter
form *rosa*

Proposed as a "form" with no nomenclatural
standing; a *nomen nudum*.

c. *Phoebis sennae marcellina* (Cramer, 1777)

Uitl. Kapellen 2(14): 103, pl. 163, fig. A ♂ (not ♀) D, B ♀ (possibly a different species and may be ♂) V, C ♂ V; (16): 149 (index).

Original

Combination: *Pap[ilio]. Dan[aus]. Cand[idus]. Marcellina*

Type Locality: "Surinamen" "Suriname"

Types: Presumed syntypes (#665067, 665068) in BMNH, but both are *Phoebis argante* ♀♀.

= *hyperici* (Sepp, [1832])

Surinaam. Vlinders [1](5): 45, pl. 19.

Original Combination: *Papilio Hyperici*

Type Locality: "Surinam" implied from the title of the work.

Types: Type(s) lost.

= *rhadia* (Boisduval, 1836)

Spec. gén. Lépid. 1: 617, no. 11.

Original Combination: *Callidryas Rhadia*

Type Locality: "Senegal, île Maurice" in error. [Mauritius, West Africa]

Types: Syntypes in BMNH.

= *yamana* (Reakirt, [1864])

Proc. Entomol. Soc. Philad. 2(3): 352, no. 3.

Original Combination: *C[allidryas]. Yamana*

Type Locality: "Honduras"

Types: Type(s) may be in CMNH or lost.

= ‡"schausi" (Oberthür, 1912)

Étud. Lépid. Comp. 6: 328, pl. 126, fig. 1116 ♂ D&V ("holotype").

Original Combination: *Callidryas Eubule-Schausi*

Type Locality: "Nouvelle- Fribourg" [Nova Friburgo, Rio de Janeiro, Brazil]

Types: "Holotype" in BMNH.

The text clearly indicates that this taxon was described as an individual variant.

= ‡"fugax" (d'Almeida, 1922)

Mélanges Lépid. 1: 57-58, no. 44; figured by d'Almeida (1940), Arq. Zool. São Paulo 1(3): pl. 4, fig. 7.

Original Combination: [*Catopsilia Eubule*] form. *Fugax*

Type Locality: Not stated; "neotype" from "Piedade, rio de Janeiro" [Brazil]

Types: "Neotype" (#1089) in UFPC, designated by Mielke and Casagrande (1985), Revta. bras. Entomol. 29(2): 323, fig. 2 ♂ D&V, but this designation was not in accordance with Code Articles 75.2 and 75.3.

The text clearly indicates that this taxon was described as an individual variant.

= ‡"giacomellii" Köhler, 1923

Z. wiss. InsektBiol. 18(12)(Sonderheft): 16, unnumbered fig. ♀ V.

Original Combination: *Catopsilia eubule* f. *Giacomellii*

Type Locality: "La Rioja" [Argentina]

Types: "Syntype" in MLP.

- = ‡"minor" Dufrane, 1947
Bull. Anns. Soc. Entomol. Belg. 83(1/2): 64.
Original Combination: [*Phoebis sennae marcellina*] *minor*
Type Locality: Not stated; "lectotype" from "Bolivia."
Types: "Lectotype" in IRSN, designated by Lamas (1981), Revta. Cienc. (Lima) 73(1): 58.
- = ‡"albescens" Dufrane, 1947
Bull. Anns. Soc. Entomol. Belg. 83(1/2): 64.
Original Combination: [*Phoebis sennae marcellina*] ab. *albescens*
Type Locality: "Brésil"
Types: "Holotype" in IRSN.
- = ‡"major" Dufrane, 1947
Bull. Anns. Soc. Entomol. Belg. 83(1/2): 65.
Original Combination: [*Phoebis sennae marcellina*] *major*
Type Locality: "Brésil"; lectotype from "Peru."
Types: "Lectotype" in IRSN, designated by Lamas (1981), Revta. Cienc. (Lima) 73(1): 56.
- 367. **Phoebis philea** (Linnaeus, 1763)
 - a. **Phoebis philea philea** (Linnaeus, 1763)
In: Johansson, Cent. Ins. Rar.: 21, no. 59; cited Rösel von Rosenhof (1761), Der monat. Insect.-Belustig. 4: pl. 3, fig. 5; often cited as published in Amoen. acad. 6: 404, no. 59, a subsequent reprint.
Original Combination: *Papilio D[anaus]. Philea.*
Type Locality: "Indiis"; suggested to be "Surinam" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 86.
Types: Type(s) apparently lost, as noted by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 363.
 - = *aricye* (Cramer, 1776)
Uitl. Kapellen 1(8): 147, pl. 94, figs. A ♂ D, B ♂ V; (8): 151 (index).
Original Combination: *Pap[ilio]. Dan[aus] Candidi Aricye*
Type Locality: "Surinamen" "Suriname"
Types: Type(s) probably lost.
Godart (1819), *in:* Ency. méth. 9(Ins.)(1): (86), 94, unjustifiably emended this to "*aricia*" and on page 94 misspelled it "*aricie*."
 - = *melanippe* (Stoll, 1781)
Uitl. Kapellen 4(31): 139-140, pl. 361, figs. E ♀ D, F ♀ V; (34): 250 (index).
Original Combination: *Pap[ilio]. Dan[aus]. Cand[idus]. Melanippe*
Type Locality: "Surinamen" "Suriname"
Types: Type(s) probably lost.
 - = *corday* (Hübner, [1819])
Verz. bekannt. Schmett. (7): 99, no. 1053; cited *Papilio philea* Cramer, 1777, Uitl. Kapellen 2(15): pl. 173, figs. E, F, and *Mancipium argante* Hübner [1814], Samml. exot. Schmett. 1: pl. [145].
Original Combination: *Colias Corday*

Type Locality: "Surinamen" "Suriname" implied from the reference to Cramer.

Types: Type(s) probably lost.

= *lollia* (Godart, 1819)

In: Ency. méth. 9(Ins.)(1): (86), 94, no. 15.

Original Combination: *Colias Lollia*

Type Locality: Not stated.

Types: Type(s) may be in MNHP.

= ‡"obsoleta" (Niepelt, 1920)

Int. Entomol. Z. 14(3): 17.

Original Combination: [*Catopsilia philea*] ♀
v. *obsoleta*

Type Locality: "Carillo, Costa Rica"

Types: "Holotype" in BMNH.

= ‡"irma" Krüger, 1929

Int. Entomol. Z. 23(4): 59.

Original Combination: *Catopsilia philea* ♀
ab. *irma*

Type Locality: "Nord-Peru"

Types: "Holotype" possibly in ZMUH (Krüger collection).

= ‡"inornata" Dufrane, 1947

Bull. Annl. Soc. Entomol. Belg. 83(1/2): 65.

Original Combination: [*Phoebis philea philea*]
ab. *inornata*

Type Locality: "Rio-de-Janeiro" [Brazil]

Types: "Holotype" in IRSN.

= ‡"androchroma" Bryk, 1953

Ark. Zool. (n.s.) 5(1): 17, no. 29b.

Original Combination: *Phoebis philea* fa. *androchroma*

Type Locality: "Roque" [Peru]

Types: "Syntypes" in NHRS.

‡"alamacho" Scott, 1981

Papilio (n.s.) 1: 3.

Original Combination: *Phoebis philea* form *alamacho*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

‡"crema" Scott, 1981

Papilio (n.s.) 1: 3.

Original Combination: *Phoebis philea* form *crema*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

‡"alba" Scott, 1986

Butterflies N. Am.: 205, no. 53.

Original Combination: [*Phoebis philea* ♀]
form *alba*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

*368. *Phoebis neocypris* (Hübner, [1823])

Samml. exot. Schmett. 2: pl. [136], figs. 1 ♂ D, 2 ♂ V.

Original Combination: *Colias Neocypris*

Type Locality: Not stated; suggested to be "Brasilia" by W.

F. Kirby (1908), *in:* P. Wytzman, Facsimile ed. Hübner

Samml. exot. Schmett. 3(addit. notes): 84.

Types: Type(s) probably lost.

- = ‡*cipris* (Fabricius, 1793)
Entomol. Syst. 3(1): 212, no. 663; cited Jones'
Icones 3: pl. 39, fig. 1.
Original Combination: *P[apilio]. D[anaus]. Cipris*
Type Locality: Not stated.
Types: Type(s) probably lost.
Preoccupied by *Papilio cipris* Cramer, 1777, Uitl.
Kapellen 2(9): 5, pl. 99, figs. E. F; (16): 148 (index).
- = *bracteolata* (Butler, 1865)
Proc. Zool. Soc. Lond. 1865(2): 458, no. 6, pl. 26, fig. 6
♀ D&V.
Original Combination: *Callidryas bracteolata*
Type Locality: "Brazil"
Types: Syntype in BMNH.
- = *irrigata* (Butler, 1870)
Trans. Entomol. Soc. Lond. (4)1870(1): 9-10, no. 2;
figured by Butler (1871), Lepid. Exot. (3): 67, no. 19, pl.
26, figs. 1 ♀ D, 2 ♀ V.
Original Combination: *Callidryas irrigata*
Type Locality: "Brasil"; defined as "Ipaunema?, Brasil"
by Butler (1871), Lepid. Exot. (3): 67. [Ipanema, Rio de
Janeiro]
Types: Syntypes in BMNH.
- a. **Phoebis neocypris virgo** (Butler, 1870)
Trans. Entomol. Soc. Lond. (4)1870(1): 9, no. 1; figured
by Butler (1871), Lepid. Exot. (4): 75, pl. 29, figs. 1 ♂ D,
2 ♂ V.
Original Combination: *Callidryas virgo*
Type Locality: "Mexico...Mountains of Oaxaca (E
Side)...San Geronimo (Vera Paz)...(?) Apolobamba"
Types: Syntypes in BMNH.
- = *intermedia* (Butler, 1872)
Cist. Entomol. 1(4): 81; figured by Butler (1873),
Lepid. Exot. (13): 153-154, no. 43, pl. 55, figs. 5 ♂ V,
6 ♀ V, 7 ♂ D, 8 ♀ D.
Original Combination: *Callidryas Intermedia*
Type Locality: "Cartago, Costa Rica" implied from
the title and introduction to the paper.
Types: Syntype in BMNH.
- = ‡"rubrofasciata" Vázquez, 1952
An. Instit. Biol., Univ. Nac. Auton. Méx. (Zool.)
22(2): 553, fig. 2 ("holotype").
Original Combination: [*Phoebis intermedia*]
f[orma]. fem[inina]. *rubrofasciata*
Type Locality: "Malinalco, Méx." [Mexico State,
Mexico]
Types: "Holotype" in MGCL.
‡"alba" Scott, 1986
Butterflies N. Am.: 206, no. 54.
Original Combination: [*Phoebis intermedia* ♀]
form *alba*
Proposed as a "form" with no nomenclatural
standing; a *nomen nudum*.
- 369. **Phoebis argante** (Fabricius, 1775)
a. **Phoebis argante argante** (Fabricius, 1775)
Syst. Entomol.: 470, no. 116.
Original
Combination: *P[apilio]. D[anaus]. C[andidus]. Argante*

Type Locality: “Brasilia” Fabricius cited “Mus. Banks” and L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 191, state that only Rio de Janeiro was visited by Banks.

Types: Syntype in BMNH.

= *cipris* (Cramer, 1777)

Uitl. Kapellen 2(9): 5, pl. 99, figs. E ♀ D, F ♀ V; (16): 148 (index).

Original Combination: *Pap[ilio]. Dan[aus]. Candidi Cipris*

Type Locality: “Surinamen” “Suriname”

Types: Syntypes (#665064, 665065) in BMNH.

= *volcanica* (Perry, 1811)

Arcana 1: [161], pl. [83].

Original Combination: *Papilio Volcanica*

Type Locality: “Rio de la Plata” [Argentina]

Types: Types probably lost.

= *cnidia* (Godart, 1819)

In: Ency. méth. 9(Ins.)(1): (86), 93-94, no. 14; cited *Papilio cipris* Cramer, 1777, Uitl. Kapellen 2(9): pl. 99, figs. E, F; (16): 148 (index), and Herbst (1792), in: Jablonsky, Natursyst. Ins., Schmett. 5: pl. 111, figs. 3, 4.

Original Combination: *Colias Cnidia*

Proposed to replace *Papilio cipris* Cramer, 1777, erroneously thought preoccupied.

= *cypris* (Hübner, [1819])

Verz. bekannt. Schmett. (7): 98, no. 1044; cited *Papilio cipris* Cramer, 1777, Uitl. Kapellen 2(9): pl. 99, figs. E, F; (16): 148 (index).

Original Combination: *P[hoebis]. Cypris*

An unjustified emendation of *Papilio cipris*.

= *aurantia* (Larrañaga, 1923)

Escrit. Larrañaga. publica Instit. Hist. Geogr. Uruguay: 418.

Original Combination: *Papilio aurantia*

Type Locality: “frequens in floribus civitatis” [frequent at flowers in the city of Montevideo, Uruguay]

Types: Type(s) lost.

= *albante* F. Brown, 1929

Am. Mus. Novit. (368): 13.

Original Combination: *Phoebis argante argante* female form *albante*

Type Locality: “Tegucigalpa, Honduras”

Types: “Holotype” in AMNH.

alba Scott, 1986

Butterflies N. Am.: 205, no. 52.

Original Combination: [*Phoebis argante* ♀] form *alba*

Proposed as a “form” with no nomenclatural standing; a *nomen nudum*.

370. *Phoebis agarithe* (Boisduval, 1836)

a. *Phoebis agarithe fisheri* (Hy. Edwards, 1883)

Papilio 3(2): 43.

Original Combination: *Callidryas Fisheri*

Type Locality: “La Paz, Lower California” [Baja California Sur, Mexico]

Types: Holotype in AMNH.

- b. **Phoebis agarithe agarithe** (Boisduval, 1836)
Spec. gén. Lépid. 1: 623, no. 16.
Original Combination: *Callidryas Agarithe*
Type Locality: "Mexique"
Types: Syntype in USNM.
= ‡"albarithe" F. Brown, 1929
Am. Mus. Novit. (368): 16.
Original Combination: *Phoebis agarithe maxima* female form *albarithe*
Type Locality: "Jalapa, Mexico" [Veracruz]
Types: "Holotype" in AMNH.
- c. **Phoebis agarithe maxima** (Neumoegen, 1891)
Can. Entomol. 23(6): 122.
Original Combination: *Catopsilia agarithe* var. *Maxima*
Type Locality: "Upper Indian River, Fla." [Brevard County, Florida]
Types: Lectotype in USNM, designated by Lamas (1993), Shilap Revta. Lepid. 21(83): 146, no. 50.
= ‡*floridensis* (Röber, 1909)
In: Seitz, Grossschmett. Erde 5(26): 87.
Original Combination: [*Catopsilia argante*] *floridensis*
Type Locality: "Floriden"; lectotype from "Miami" [Miami-Dade County]
Types: Lectotype in MTD, designated by Lamas (1993), Shilap Revta. Lepid. 21(83): 146, no. 50. Preoccupied by *Catopsilia neleis* var. *floridensis* Neumoegen, 1891, Can. Entomol. 23(6): 122.
‡"alba" Scott, 1986
Butterflies N. Am.: 204, no. 51.
Original Combination: [*Phoebis agarithe* ♀] form *alba*
Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

Genus **Aphrissa** Butler, 1873

Lepid. Exot. (13): 155. Type-species: *Papilio statira* Cramer, 1777, Uitl. Kapellen 2(10): 35, pl. 120, figs. C, D; (16): 150 (index), by original designation.

371. **Aphrissa statira** (Cramer, 1777)
- a. **Aphrissa statira statira** (Cramer, 1777)
Uitl. Kapellen 2(10): 35, pl. 120, figs. C ♀ D, D ♀ V; 2(16): 150 (index).
Original Combination: *Pap[ilio]. Dan[aus]. Cand[idus]. Statira*
Type Locality: "Kust van Coromandel, en te Tránquebar" "Côte de Coromandel & à Tranquebar" in error; suggested to be "Surinam" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 87; "neotype" from "Pará." [Brazil]
Types: Type(s) probably lost; d'Almeida (1945), Pap. avulsos Dept. Zool. Sec. Agr. (São Paulo) 6(21): 239, designated "neotypes"; Mielke and Casagrande (1985), Revta. bras. Entomol. 29(2): 328, fig. 4 ♂ D&V, designated one of these as the neotype (#1282) in UFPC. Neither of these designations are in accordance with Code Articles 75.2 and 75.3.

- = *evadne* (Godart, 1819)
In: Ency. méth. 9(Ins.)(1): (87), 98, no. 28;
 cited *Papilio alcmeone* Cramer, 1777, Uitl. Kapellen
 2(12): pl. 141, fig. E; (16): 147 (index), and Herbst
 (1792), *in*: Jablonsky, Natursyst. Ins., Schmett. 5: pl.
 104, fig. 3.
Original Combination: *Colias Evadne*
Type Locality: "Brésil"
Types: Type(s) probably at MNHP.
- = *jada* (Butler, 1870)
 Trans. Entomol. Soc. Lond. (4)1870(1): 11, no. 5;
 figured by Butler (1873), Lepid. Exot. (10): 144, pl.
 51, figs. 7 ♂ D, 8 ♀ D, 9 ♂ V, 10 ♀ V.
Original Combination: *Catopsilia Jada*
Type Locality: "Guatemala (Central Valleys)"
Types: Syntypes in BMNH.
- = *inesa* Anken & Silva, 1996
 Facetta (12): 5, figs. 1 ♂ D, 2b ♂ V.
Original Combination: *Aphrissa statira inesa*
Type Locality: "Brazil, Rio de Janeiro, Teresópolis"
Types: Holotype in Anken collection or ZSMC.
- = ‡"pseudomas" (Giacomelli, 1911)
 An. Soc. Cient. Argent. 72(1): 21, no. 2.
Original Combination: [*Catopsilia Statira*]
 hembra forma *pseudomas*
Type Locality: "en el Saladillo á dos leguas de
 la Rioja, á 800 metros" [La Rioja, Argentina]
Types: "Syntype" in MACN.
- = ‡"stalba" F. Brown, 1931
 Am. Mus. Novit. (454): 12.
Original Combination: *Aphrissa statira*
jada female form *stalba*
Type Locality: "Truxillo district, Honduras"
Types: "Holotype" in AMNH.
 ‡"alba" Scott, 1986
 Butterflies N. Am.: 203, no. 48.
Original Combination: [*Phebis statira*]
 form *alba*
 Proposed as a "form" with no nomenclatural
 standing; a *nomen nudum*.
 ‡"naranja" Scott, 1981
 Papilio (n.s.) 1: 3.
Original Combination: *Phoebis statira* female
 form *naranja*
 Proposed as a "form" with no nomenclatural
 standing; a *nomen nudum*.
- b. ***Aphrissa statira floridensis*** (Neumoegen, 1891)
 Can. Entomol. 23(6): 122.
Original Combination: *Catopsilia neleis* var. *floridensis*
Type Locality: "Upper Indian River of Florida" [Brevard
 County]
Types: Syntypes in USNM and MCZ.
- 372. ***Aphrissa neleis*** (Boisduval, 1836)
 Spec. gén. Lépid. 1: 629-630, no. 23.
Original Combination: *Callidryas Neleis*
Type Locality: "Cuba"
Types: Type(s) in BMNH.
- 373. ***Aphrissa orbis*** (Poey, 1832)

- a. **Aphrissa orbis orbis** (Poey, 1832)
Cent. Lépid. Cuba (1): [1-3], [no. 1], pl. [1], figs. [1] ♀ D, [2] ♂ D, [3] larva, [4] ♀ V, [5] pupa.
Original Combination: *Callidryas Orbis*
Type Locality: "Cuba"
Types: Syntypes (#7767) in ANSP.

Subfamily Pierinae Swainson, 1820

Tribe Anthocharidini Scudder, 1889

Butterflies E. U. S. & Can. (2)(8): 1039 (as "Anthocharidi"). Type-genus: *Anthocharis* Boisduval, Rambur & Graslin, [1833], Coll. icon. Hist. Chenilles Europ. (12): pl. Pap. 5; (13): pl. 35.

Genus *Anthocharis* Boisduval, Rambur, [Duménil] & Graslin, [1833]

Coll. icon. Hist. Chenilles Europ. (12): pl. Pap. 5; (13): 35. Type-species: *Papilio cardamines* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 468, no. 63, by monotypy.

Subgenus *Anthocharis* Boisduval, Rambur, [Duménil] & Graslin, [1833]

- = *Tetracharis* Grote, 1898
Proc. Am. Phil. Soc. 37(157): 37. Type-species: *Anthocharis cethura* C. Felder & R. Felder, 1865, Reise Novara (2): 182, no. 174, pl. 25, figs. 1, 2, by monotypy.

374. *Anthocharis cethura* C. Felder & R. Felder, 1865

- a. ***Anthocharis cethura catalina*** Meadows, 1937
Bull. South. Calif. Acad. Sci. 35(3): 177.
Original Combination: *Anthocharis cethura* race *catalina*
Type Locality: "Grand Canyon...White's Landing...Renton Mine...Salte Verde....Catalina Island, California"; defined as "ridge between Renton Mine and Jewfish Point at head of Pebbly Beach Canyon" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 75, but holotype is from "Grand Canyon," as recorded by Orsak (1976), J. Res. Lepid. 14: 85, and S. Miller (1985), J. Res. Lepid. 23(4): 290.
Types: Holotype in LACM.
- b. ***Anthocharis cethura cethura*** C. Felder & R. Felder, 1865
Reise Novara (2): 182, no. 174, pl. 25, figs. 1 ♀ D, 2 ♀ V.
Original Combination: *Anthocharis Cethura*
Type Locality: "Sonora"; defined as "vicinity of Los Angeles, Los Angeles County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (5): 88.
Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (5): 88, figs. 8 ♀ D, 9 ♀ V.
= *cooperii* Behr, 1869
Trans. Am. Entomol. Soc. 2(3): 304.
Original Combination: *Anthocharis* [sic!] *Cooperii*
Type Locality: "San Diego" [San Diego County, California]
Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire.
= *angelina* Boisduval, 1869
Annls. Soc. Entomol. Belg. 12: 40, no. 12.

Original Combination: *Anthocharis Angelina*

Type Locality: "Los Angeles, dans le sud de la Californie"

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 25, figs. 174 ♂ D, 175 ♂ V.

= *deserti* W. G. Wright, 1905

Butterflies W. Coast: 50, no. 60; 106, pl. 7, figs. 60 ♂ D (lectotype), 60a ♂ D, 60aa ♂ V, 60b ♀ D, 60bb ♀ D, 60c ♀ V.

Original Combination: [*Anthocharis*

Cethura var.] *Deserti*; *Anthocharis Deserti* n. v.

Type Locality: "Colorado Desert of California"

"Garnet Knob, Desert...Caliente...Indian Wells"; lectotype from "Garnet Knob, Desert"; defined as "Palm Springs area" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (11): 132.

Types: Lectotype (#4282) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 9.

= *caliente* W. G. Wright, 1905

Butterflies W. Coast: 50, no. 70; 112-113, pl. 8, fig. 70 ♀ D (holotype).

Original

Combination: [*Anthocharis*] *Caliente*; *Anthocharis Caliente* n. s.

Type Locality: "Colorado Desert of California"; suggested to be "Palm Springs area" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (11): 132.

Types: Holotype (#4288) in CAS.

c. ***Anthocharis cethura morrisoni*** W. H. Edwards, 1881
Papilio 1(4): 43-44, no. 1.

Original Combination: *Anthocharis Morrisoni*

Type Locality: "Southern California"; corrected to "the barren mesa lands, particularly the summits of small hills near Kern River, Calif." by Morrison (1883), Papilio 3(2): 43; lectotype from "Kern River, Kern County, California."

Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 49, fig. 8 ♂ D&V.

d. ***Anthocharis cethura hadromarmorata*** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butterflies (11): 133, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.

Original Combination: *Anthocharis cethura hadromarmorata*

Type Locality: "Nevada: Churchill County; 2 ½ road miles west of Junction US Highway 50 and US Highway Alternate 95 on US Highway 50, south end of Swingle Bench, 4100' elevation, T19N, R27E"

Types: Holotype in LACM.

e. ***Anthocharis cethura mojavensis*** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butterflies (11): 131-132, 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.

Original Combination: *Anthocharis cethura mojavensis*

Type Locality: "California: San Bernardino County, Providence Mountains, mouth of Bonanza King Mine Canyon, 4200' elevation, S3, T10N, R14E"

Types: Holotype in LACM.

- f. **Anthocharis cethura pima** W. H. Edwards, 1888
Can. Entomol. 20(8): 158; figured by W. H. Edwards (1889), Butterflies N. Am. 3(7): pl. Anthocharis 2, figs. 6 ♂ D, 7 ♂ V, 8 ♀ D, 9 ♀ V.
Original Combination: *Anthocharis Pima*
Type Locality: "Pima County, Arizona"; redefined as "Arizona, Pima County, on the barren plains between Pontano and Tucson" by W. H. Edwards (1889), Butterflies N. Am. 3(7): [6]; subsequently defined as "Pantano, Pima County, Arizona" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 45-46.
Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 47, fig. 7 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 32, fig. 33 ♂ D.
The conspecific relationship between *cethura* and *pima* was first established by Rudkin (1936), Bull. South. Calif. Acad. Sci. 35(1): 3-4. Additional works supporting this arrangement include T. Emmel and J. Emmel (1973), Los Angeles Co. Mus., Sci. Ser. 26: 22, Austin (1981), J. Res. Lepid. 19(4): 242, Scott (1982), J. Res. Lepid. 20(1): 61, Austin (1986), J. Lepid. Soc. 39(2): 101, and J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (11): 132.
375. **Anthocharis sara** Lucas, 1852
Opler (1999), Field Guide W. Butterflies: 159-161, recognized four species in this group: *sara* (including *gunderi*, *flora* and *alaskensis* as subspecies), *julia*, *stella* (including *browningi*), and *thoosa* (including *inghami* and *pseudothoosa*). His arrangement was at least in part based on Geiger and Shapiro (1986), J. Res. Lepid. 25(1): 15-24, where *stella* and *julia* were suggested to be species-level taxa, based on electrophoretic evidence. Stout (2005), Bull. Utah Lepid. Soc. 12(1): 5-9, 13, detailed larval and adult characters of various populations in this group, which do not entirely support Opler's arrangement. This is augmented by Stout (2010), Tax. Rep. Int. Lepid. Surv. 7(4): 1-12. The species delimitation and distribution await complete resolution and all taxa are retained under *A. sara* until that occurs.
- a. **Anthocharis sara gunderi** Ingham, 1933
Pan-Pac. Entomol. 9(2): 75.
Original Combination: *Anthocharis sara gunderi*
Type Locality: "Middle Ranch, Santa Catalina Island, California" [Los Angeles County]
Types: Holotype in CAS.
This taxon was listed at the subspecies-level by S. Miller (1985), J. Res. Lepid. 23(4): 290.
- b. **Anthocharis sara sara** Lucas, 1852
Revue Mag. Zool. (2)4(7): 339-340.
Original Combination: *Anthocharis Sara*
Type Locality: "Californie"; defined as "Queen Lily Campground, near Belden, North Fork Feather River, 2400' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (3): 79.
Types: Lectotype in MNHP, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (3): 79, figs. 13 ♂ D, 14 ♂ V.

- = ‡sara Boisduval, 1852
Annls. Soc. Entomol. Fr. (2)10(2): 285-286, no. 11.
Original Combination: *Anthocharis sara*
Type Locality: "dans une grande partie de la Californie"
Types: Syntypes in USNM.
Preoccupied by *Anthocharis sara* Lucas, 1852, Revue Mag. Zool. (2)4(7): 339-340.
- = *reakirtii* W. H. Edwards, 1869
Trans. Am. Entomol. Soc. 2(4): 369; figured by W. H. Edwards (1868), Butterflies N. Am. [1](2): pl. Anthocharis 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Anthocharis Reakirtii*
Type Locality: "California"; defined as "vicinity of San Francisco, California" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 39.
Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 40-41, fig. 4 ♂ D&V.
- = *mollis* W. G. Wright, 1905
Butterflies W. Coast: 50, no. 67; 111, pl. 8, figs. 67 ♂ D (lectotype), 67b ♀ D.
Original Combination: [*Anthocharis Sara* var.] *Mollis*; *Anthocharis Mollis* n. v.
Type Locality: "Southern California" "Riche Canyon, S. Cal....San Diego County"; lectotype from "Riche Canyon," believed to be "Reche Canyon, San Bernardino/Riverside counties" by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 11.
Types: Lectotype (#4286) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 11.
- = *dammersi* J. A. Comstock, 1929
Bull. South. Calif. Acad. Sci. 28(2): 33, pl. 18 (holotype).
Original Combination: *Anthocharis dammersi*
Type Locality: "Whitewater Canyon, Riverside County, California"
Types: Holotype in LACM; figured by Howe (1975), Butterflies N. Am.: pl. 71, fig. 8 ♂ D&V.
The holotype is apparently a hybrid between *A. sara* and *A. lanceolata*; see Shields and Mori (1979), J. Res. Lepid. 17(1): 53-55, fig. 1 ♂ D&V, and Scott (1982), J. Res. Lepid. 20(1): 61.
- = ‡"wrighti" J. A. Comstock, 1924
Bull. South. Calif. Acad. Sci. 23(2): 52; 24(2): pl. 11, fig. 16 ♂ D ("holotype").
Original Combination: *Anthocharis reakirti* ab. *Wrighti*
Type Locality: "Chula Vista, California"
Types: "Holotype" in SDMC.
- = ‡"sternitzkyi" Gunder, 1925
Entomol. News 36(1): 4, no. 6, pl. 1, fig. Q ♂ D ("holotype").
Original Combination: *Anthocharis sara* form *reakirti* ab. ♂ *sternitzkyi*
Type Locality: "San Francisco, California" [San Francisco County]

- Types:** "Holotype" in AMNH.
 = ‡"corcorani" Gunder, 1931
 Bull. South. Calif. Acad. Sci. 30(2): 45.
Original Combination: *Anthocharis sara* tr. f. *corcorani*
Type Locality: "Griffith Park, Los Angeles, Calif." [Los Angeles County, California]
Types: "Holotype" in LACM.
- = ‡"broweri" Gunder, 1932
 Pan-Pac. Entomol. 8(3): 124.
Original Combination: *Anthocharis sara* race *reakirti* tr. f. *broweri*
Type Locality: "Peanut Hill, Berkely Hills, Alameda County, California"
Types: "Holotype" in AMNH.
- = ‡"flavicoloris" Gunder, [1934]
 Pan-Pac. Entomol. 9(4): 151-152.
Original Combination: *Anthocharis sara reaktirii* tr. f. *flavicoloris*
Type Locality: "Tocaloma, Marin County, California"
Types: "Holotype" in AMNH.
 ‡"pallida" Scott, 1986
 Butterflies N. Am.: 212, no. 68.
Original Combination: [*Anthocharis sara*] form *pallida*
 Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.
- c. *Anthocharis sara sempervirens*** J. Emmel, T. Emmel & Mattoon, 2008
 Bull. Allyn Mus. (155): 2-4, figs. 1 ♂ D, 2 ♂ V (holotype), 3 ♀ D, 4 ♀ V.
Original Combination: *Anthocharis sara sempervirens*
Type Locality: "California: Humboldt County; Redwood National Park; along Bald Hills Road 16.3 road miles southeast of Highway 101, 0.4-0.5 air mile west of Schoolhouse Peak, 2400-2600 feet elevation; SE 1/4 of S24, T9N R2E"
Types: Holotype in MGCL.
- d. *Anthocharis sara flora*** W. G. Wright, 1892
 Can. Entomol. 24(6): 154-155; figured by W. G. Wright (1905), Butterflies W. Coast, pl. 8, figs. 65 ♂ D (lectotype), 65b ♀ D.
Original Combination: *A[nthocharis]. Flora*
Type Locality: "Western Washington"; corrected to "Tenino, Washington" by W. G. Wright (1905), Butterflies W. Coast: 109. [Thurston County]
Types: Lectotype (#3228) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 11.
- e. *Anthocharis sara alaskensis*** Gunder, 1932
 Can. Entomol. 64(12): 277.
Original Combination: *Anthocharis sara* race *alaskensis*
Type Locality: "Skagway, Alaska"
Types: Holotype in AMNH.
- f. *Anthocharis sara stella*** W. H. Edwards, 1879
 Can. Entomol. 11(5): 87-88.
Original Combination: *Anthocharis Stella*

Type Locality: "Nevada...Lake Tahoe...Yo Semite"; defined as "Marlette Peak, Carson Range, Washoe County, Nevada" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 41, 42.

Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 43, fig. 5 ♂ D&V.

The recent application of the name *stella* to populations far away from its type locality (e.g. Opler (1999), *ibid.*, Layberry *et al.* (1998), Butterflies Can.: 102-103; following McDunnough (1928), Can. Entomol. 60(11): 269-270), is inappropriate, as discussed by A. Warren (2005), Butterflies Ore.: 82-83.

g. *Anthocharis sara sulfuris* Pelham, 2008

J. Res. Lepid. 40: 167-168.

Original Combination: *Anthocharis sara sulfuris*

Pelham adopted *Anthocharis sara* race *julia* tr.

f. *sulfuris* Gunder, 1931 to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= *columbia* J. Scott & Kondla, 2008

Papilio (n.s.) 18: 12-13, pl 2, fourth row left ♂ D, fourth row center ♂ V (holotype), fifth row left ♀ D, fifth row center ♀ V.

Original Combination: *Anthocharis sara columbia*

Type Locality: "Brilliant Creek, BC, in the West Kootenay are of BC near Castlegar on the Columbia River"

Types: Holotype in CNC.

= ‡"sulfuris" Gunder, 1931

Bull. South. Calif. Acad. Sci. 30(2): 45.

Original Combination: *Anthocharis sara* race *julia* tr. f. *sulfuris*

Type Locality: "Kellogg, Idaho" [Shoshone County]

Types: "Holotype" in AMNH.

h. *Anthocharis sara browningi* Skinner, 1906

Syn. Cat. N. Am. Rhop., Suppl. 1: 22; cited Browning (1901), Entomol. News 12(10): pl. 13, ♂&♀.

Original Combination: [*Anthocharis*] *Sara* var *browningi*

Type Locality: "Brightons [sic!], Utah, and City Creek Canon, near Salt Lake City" [Brighton and City Creek Canyon, Salt Lake County]

Types: Syntypes (#903) in CMNH; one figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 71, fig. 14 ♂ D.

i. *Anthocharis sara julia* W. H. Edwards, 1872

Trans. Am. Entomol. Soc. 4(1/2): 61-62, no. 2; figured by W. H. Edwards (1878), Butterflies N. Am. 2(7): pl. *Anthocharis* 2, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.

Original Combination: *Anthocharis Julia*

Type Locality: "pine woods of the mountains immediately surrounding the South Park, at Fairplay, Park Co., Colorado"; defined as "woods and on the banks of the Beaver Creek near Fairplay, Park Co., altitude 9500 feet" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 158.

Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 44, fig. 6 ♂ D&V.

- j. ***Anthocharis sara colorado*** J. Scott & M. Fisher, 2008
Papilio (n.s.) 18: 7-8, pl 2, top row left ♂ D, top row center ♂ V (holotype), second row left ♀ D, second row center ♀ V.
Original Combination: *Anthocharis sara colorado*
Type Locality: "McElmo Creek, 6000', Montezuma Co. Colo."
Types: Holotype in CSUC.
- k. ***Anthocharis sara coriande*** M. Fisher & J. Scott, 2008
Papilio (n.s.) 18: 8-9, pl 2, third row left ♂ D, third row center ♂ V (holotype), third row right ♀ D
Original Combination: *Anthocharis sara coriande*
Type Locality: "1 mi. SE Glorieta, 7300', pinyon-juniper woodland Taos Co. [sic!] New Mex." [Santa Fe County, New Mexico]
Types: Holotype in BMNH.
- l. ***Anthocharis sara inghami*** Gunder, 1932
Can. Entomol. 64(12): 276-277.
Original Combination: *Anthocharis sara* race *inghami*
Type Locality: "Tucson, Ariz." [Pima County]
Types: Holotype in AMNH.
 = ‡"*duncani*" Gunder, 1932
 Can. Entomol. 64(12): 277.
 Original Combination: *Anthocharis sara* race *inghami* tr. f. *duncani*
 Type Locality: "Globe, Ariz." [Gila County]
 Types: "Holotype" in AMNH.
- m. ***Anthocharis sara thoosa*** (Scudder, 1878)
Bull. U. S. Geol. Geogr. Surv. Terr. 4(1)(10): 257.
Original Combination: *Synchlœ thoosa*
Type Locality: "Mokiak Pass"; determined to be "Mokiah Pass, Mohave Co., Arizona: summit about 5200', T39N R12W, 36° 48' N/ 13° 33' W in the saddle between Wolf Hole Mountain and Seegmuller Mountain, up Mokiah Wash" by F. Brown (1967), *J. Lepid. Soc.* 21(2): 134.
Types: Holotype (#16016) in MCZ.
- n. ***Anthocharis sara pseudothoosa*** Austin, 1998
Syst. W. N. Am. Butterflies (44): 534-535, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.
Original Combination: *Anthocharis sara pseudothoosa*
Type Locality: "Nevada: Douglas County; Sweetwater Mountains, Jackass Creek, 0.5-2 miles southwest of Desert Creek, 2195 m, T8N R24E (unsectioned) on USGS Desert Creek Peak, Nev.-Calif. 15' quadrangle"
Types: Holotype in MGCL.

Subgenus **Paramidea** Kuznetsov, 1929

Mus. zool. Acad. Sci. (Ser. 7) 1(2): 58 (nota). Type-species: *Anthocharis scolymus* Butler, 1866, *J. Linn. Soc. Lond., Zool.* 9: 52, no. 8, fig., by original designation. Bernardi (1961), *Bull. Soc. Entomol. Fr.* 66(3/4): 111-112, detailed the use of *Paramidea* over *Falcapica*.

- = *Falcapica* Klots, 1930
Bull. Brooklyn Entomol. Soc. 25(2): 83. Type-species: *Papilio genutia* Fabricius, 1793, *Entomol. Syst.* 3(1): 193, no. 601, as a replacement name (= *Mancipium midea* Hübner, [1809], *Samml. exot. Schmett.* 1: pl. [142], figs. 1, 2, 3, 4; preoccupied).
 Proposed to replace *Midea* Herrich Schäffer, 1867, preoccupied (*Code Articles* 60.3, 67.8).

- = ‡*Midea* Herrich-Schäffer, 1867
Corresp.-Bl. zool.-min. Ver. Regensburg 21(9): 105; (11): 143. Type-species: *Papilio genutia* Fabricius, 1793, Entomol. Syst. 3(1): 193, no. 601 (= *Mancipium midea* Hübner, [1809], Samml. exot. Schmett. 1: pl. [142], figs. 1, 2, 3, 4; preoccupied). Preoccupied by *Midea* Bruzelius, [1855], Beskr. Hydrachn.: 35.

376. ***Anthocharis midea*** (Hübner, [1809])

- a. ***Anthocharis midea annickae*** dos Passos & Klots, 1969
Entomol. Am. 45(1/2): 17, figs. 8 ♂ D, 9 ♂ V (holotype); 10 ♀ D, 11 ♀ V.

Original Combination: *Anthocharis (Falcapica) midea annickae*

Type Locality: "West Rock, New Haven, Connecticut" [New Haven County]

Types: Holotype in AMNH.

- b. ***Anthocharis midea midea*** (Hübner, [1809])
Samml. exot. Schmett. 1: pl. [142], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Mancipium Midea*

Type Locality: Not stated; suggested to be "Georgien" by Hemming (1937), Hübner 2: 115 (manuscript #31); defined as "vic. Savannah, Chatham County, Georgia" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 76; neotype from "Wilmington I., near Savannah, Georgia."

Types: Type(s) lost; neotype in AMNH, designated by dos Passos and Klots (1969), Entomol. Am. 45(1/2): 5-6, figs. 4 ♂ D, 5 ♂ V; this is also the neotype of *genutia* Fabricius, 1793.

- = ‡*genutia* (Fabricius, 1793)
Entomol. Syst. 3(1): 193, no. 601; cited Jones' Icones pl. 27, fig. 2; figured by Donovan (1800), Epit. Ins. India: pl. [27], fig. 5 (a copy from Jones' Icones).

Original

Combination: *P[apilio]. D[ana]. Genutia*

Type Locality: "India"; suggested to be "the coastal plain region of Georgia" by dos Passos and Klots (1969), Entomol. Am. 45(1/2): 5; neotype from "Wilmington I., near Savannah, Georgia."

Types: Type(s) apparently lost; neotype in AMNH, designated by dos Passos and Klots (1969), Entomol. Am. 45(1/2): 5-6, figs. 4 ♂ D, 5 ♂ V.

Preoccupied by *Papilio genutia* Cramer, 1779, Uitl. Kapellen 3(18): 23-24, pl. 206, figs. C, D; (24): 175 (index).

- = *lherminieri* (Godart, 1819)
Ency. méth. 9(Ins.)(1): (118), 197 [sic!; [167]-168], no. 164.

Original Combination: *Pieris lherminieri*

Type Locality: "Charles-Town"; neotype from "McClellanville (Charleston Co.), South Carolina."

Types: Type(s) apparently lost; neotype in AMNH, designated by dos Passos and Klots (1969), Entomol. Am. 45(1/2): 6, figs. 6 ♂ D, 7 ♂ V.

- = *flavida* Skinner, 1917
Entomol. News 28(10): 438.
Original Combination: *Anthocharis genutia* var. *flavida*
Type Locality: "Savannah, Georgia" [Chatham County]
Types: Syntypes (#7029) in CMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 71, fig. 15 ♂ D, and dos Passos and Klots (1969), Entomol. Am. 45(1/2): figs. 2 ♂ D, 3 ♂ V.
- c. ***Anthocharis midea texana*** Gatrell, 1998
Tax. Rep. Int. Lepid. Surv. 1(1): 3, figs. 1 ♂ D (holotype), 5 ♀ D.
Original Combination: *Anthocharis midea texana*
Type Locality: "6 mi. w. of Buffalo, Freestone Co., Texas"
Types: Holotype in MGCL.
- 377. ***Anthocharis lanceolata*** Lucas, 1852
 - a. ***Anthocharis lanceolata lanceolata*** Lucas, 1852
Revue Mag. Zool. (2)4(7): 338-339.
Original Combination: *Anthocharis Lanceolata*
Type Locality: "Californie"; defined as "Highway 70 at Soda Creek, E. Branch of North Fork Feather River Canyon, 2500' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (3): 78.
Types: Lectotype in MNHP, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (3): 79, figs. 10 ♀ D, 11 ♀ V.
 - = ~~*lanceolata*~~ Boisduval, 1852
Annls. Soc. Entomol. Fr. (2)10(2): 284-285, no. 10.
Original Combination: *Anthocharis lanceolata*
Type Locality: "les montagnes de la Juba"
Types: Syntypes in USNM.
Preoccupied by *Anthocharis lanceolata* Lucas, 1852, Revue Mag. Zool. (2)4(7): 338-339.
 - = *edwardsii* Behr, 1869
Trans. Am. Entomol. Soc. 2(3): 304.
Original Combination: *Anthocharis* [sic!] *Edwardsii*
Type Locality: "Downieville" [Sierra County, California]
Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire.
 - b. ***Anthocharis lanceolata australis*** (F. Grinnell, 1908)
Can. Entomol. 40(2): 72.
Original Combination: *Synchlœ australis*
Type Locality: "Arroyo Seco Cañon and Millard Cañon, Pacific slope of the St. [sic!] Gabriel Mountains, Los Angeles County, California. Elevation 2,500 feet" [San Gabriel Mountains]
Types: Syntype in AMNH.
 - c. ***Anthocharis lanceolata desertolimbus*** J. Emmel, T. Emmel & Mattoon, 1998
Syst. W. N. Am. Butterflies (11): 135, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V.
Original Combination: *Anthocharis lanceolata desertolimbus*

Type Locality: "California: San Diego County; one mile west of Scissors Crossing; T12S., R5E"
Types: Holotype in LACM.

Genus **Euchloe** Hübner, [1819]

Verz. bekannt. Schmett. (6): 94. Type-species: *Euchloe ausonia* var. *esper* W. F. Kirby, 1871, Syn. Cat. diurn. Lepid.: 506 (= *Euchloe crameri* Butler (1869), Entomol. Mon. Mag. 5(59): 271, no. 2; subspecies), by designation of I.C.Z.N. *Opinion* 177. *Opinion* 270 placed *Euchloe* on the *Official List of Generic Names in Zoology* as name no. 687.

- = ‡*Phyllocharis* Schatz, [1885]
In: Staudinger & Schatz, Exot. Schmett. (2)(1): pl. 8, fig. 2, 71. Type-species: *Papilio tagis* Hübner, [1804], Samml. europ. Schmett. 1: pl. 110, figs. 565, 566, by monotypy. Preoccupied by *Phyllocharis* Dalman, 1824, Ephem. entomol.: 21.
- = *Elphinstonia* Klots, 1930
Bull. Brooklyn Entomol. Soc. 25(2): 87-88. Type-species: *Anthocharis charlonia* Donzel, 1842, Ann. Soc. Entomol. Fr. [1]11(2): 197-198, pl. 8, fig. 1, by original designation.

378. **Euchloe ausonides** (Lucas, 1852)

The relationship between this species and *E. ausonia* Hübner, [1804], Samml. europ. Schmett. 1: pl. 113, figs. 582, 583, was explained by Geiger and Scholl (1985), *Experientia* 41: 24-29, and Back (1991), *Atalanta* (Münnerstadt) 21(3/4): 187-206.

a. **Euchloe ausonides ausonides** (Lucas, 1852)

Revue Mag. Zool. (2)4(7): 340-341.

Original Combination: *Anthocharis Ausonides*

Type Locality: "Californie"; defined as "San Francisco, San Francisco County, California" by Opler (1967), *J. Res. Lepid.* 5(3): 191.

Types: Lectotype in MNHP, designated by J. Emmel *et al.* (1998), *Syst. W. N. Am. Butterflies* (3): 79, figs. 16 ♂ D, 17 ♂ V.

- = ‡*ausonides* Boisduval, 1852
Annl. Soc. Entomol. Fr. (2)10(2): 286, under no. 11.

Original Combination: *Anthocharis Ausonides*

Type Locality: "dans une grande partie de la Californie"

Types: Holotype in USNM; figured by Verity [1907], *Rhop. palae.* (21-23): pl. 37, fig. 20 ♂ D. Preoccupied by *Anthocharis ausonides* Lucas, 1852, *Revue Mag. Zool.* (2)4(7): 340-341.

- = ‡"*flavidalis*" J. A. Comstock, 1924
Bull. South. Calif. Acad. Sci. 23(2): 51; 24(1): pl. 10, fig. 10 ♀ D ("holotype").

Original Combination: *Euchloe ausonides* var. *flavidalis*

Type Locality: "Palo Alto, California" [Santa Clara County]

Types: "Holotype" in LACM.

The text clearly indicates that this taxon was described as an individual variant.

- = ‡"*semiflava*" J. A. Comstock, 1924

Bull. South. Calif. Acad. Sci. 23(2): 51; 24(1): pl. 10, fig. 11 ♀ D ("holotype").

Original Combination: *Euchloe ausonides* var. *semiflava*

Type Locality: "San Jose Mission, California" [Fremont County]

Types: "Holotype" in LACM.

The text clearly indicates that this taxon was described as an individual variant.

= ‡"boharti" Doudoroff, 1930

Pan-Pac. Entomol. 6(3): 143, fig. ♂ V ("holotype").

Original Combination: *Euchloe ausonides* [ab.] *boharti*

Type Locality: "Berkeley, California" [Alameda County]

Types: "Holotype" in Bohart Collection (UCDC).

b. *Euchloe ausonides insulanus* C. Guppy & J. Shepard, 2001

Butterflies B. C.: 160, figs. ♂ D&V (holotype), ♀ D&V.

Original Combination: *Euchloe ausonides insulanus*

Type Locality: "BC, W[ellington]" [Wellington, Vancouver Island, British Columbia]

Types: Holotype in CNC.

c. *Euchloe ausonides transmontana* Austin & J. Emmel, 1998

Syst. W. N. Am. Butterflies (42): 506, figs. 23 ♂ D, 24 ♂ V (holotype); 25 ♀ D, 26 ♀ V.

Original Combination: *Euchloe ausonides transmontana*

Type Locality: "Nevada: Lander County; Toiyabe Mountains, Kingston Canyon, 2050 m, T16N R43E S27-28 on the USGS Millet Ranch, Nev. 15' quadrangle"

Types: Holotype in LACM.

= ‡"hemiflava" W. D. Field, 1936
J. Entomol. & Zool. 28(2): 19.

Original Combination: *Euchloe ausonides* race *coloradensis* tr. f. *hemiflava*

Type Locality: "Payson, Utah" [Utah County]

Types: "Holotype" in USNM.

d. *Euchloe ausonides coloradensis* (Hy. Edwards, 1881)
Papilio 1(4): 50-51.

Original Combination: *Anthocharis coloradensis* n. sp.?

Type Locality: "Colorado"; defined as "Turkey Creek Junction, Jefferson County, Colorado" by Opler (1967), J. Res. Lepid. 5(3): 192.

Types: Lectotype in AMNH, designated by K. Johnson (1976), J. Lepid. Soc. 30(4): 253, figs. 2b, 2e ♂ genitalia.

= ‡"montana" Verity, [1911]

Rhop. palae. (30-36): 339, pl. 68, figs. 13 ♂ D, 14 ♀ D, 15 ♂ V; ind. syst.: xxxi.

Original Combination: [*Euchloe belia* var. *belioides*] race *montana*

Type Locality: "hautes montagnes...à 3000 m. Dans le Colorado (Halle Valley)" implied from the text; "Hall Valley, 3000 m., Colorado" from the legend to plate 68. [Park County]

Types: Syntypes in the BMNH.

- e. **Euchloe ausonides palaeoreios** K. Johnson, 1976
J. Lepid. Soc. 30(4): 253-256, fig. 1 (6 images including D&V ♂ holotype), fig. 2 a ♂ genitalia (holotype), 2d valve and penis.
Original Combination: *Euchloe ausonides palaeoreios*
Type Locality: "Spearfish Canyon, near Spearfish, Lawrence Co., South Dakota"
Types: Holotype in AMNH.
- f. **Euchloe ausonides mayi** F. Chermock & R. Chermock, 1940
Can. Entomol. 72(4): 81.
Original Combination: *Euchloe ausonides mayi* new race
Type Locality: "Riding Mountains, Manitoba"
Types: Holotype in CNC.
- g. **Euchloe ausonides ogilvia** Back, 1991
Atalanta (Münnerstadt), 21(3/4): 195-197, pl. 1, figs. 1, 3, 5, 8, 10 pupa, pl. 2, fig. 7 ova, pl. 3, figs. 8, 9, 10 ova, cpl. 2, fig. 1 ♂ D&V (holotype), fig. 2 ♀ D&V (possibly not the same species), cpl. 3, figs. 1, 2, 3 larva.
Original Combination: *Euchloe ogilvia*
Type Locality: "CDN, Yukon-Ter. Ogilvie Mts., Dempster Hwy, Mi. 45, 500-1000m" [Canada]
Types: Holotype in MGCL.
It is possible that the holotype is a specimen of *E. naina*; future research may place this name with that species.
- *379. **Euchloe naina** Kozhanchikov, 1923
Ezhgeg. gosud. Muz. N. M. Mart'yanova 1(1): 2-3.
Original Combination: *E[uchloe]. belia naina*
Type Locality: "Sajan-Gebirge am Bujba-See auf der Hoch v. n. 1400 m" [Sayan Mountains, Krasnoyarski Kray, Russia]
Types: Syntypes in ZIN and ZMKU; figured by Back (1991), Atalanta (Münnerstadt) 21(3/4): cpl. 2, figs. 5 ♂ D&V, 6 ♀ D&V, and Chikolovets *et al.* (2002), Butterflies Transbaikalia Siberia: pl. 29, figs. 2 ♂ D, 6 ♀ D.
Back, *et al.* (2008), Entomol. Z. 118(4): 151-169, suggest that this taxon may be conspecific with *E. ausonia* Hübner, [1804], thus reversing it's earlier elevation to species rank by Tuzov (1993), Syn. List Butterflies ex-USSR: 18, and others.
= ‡"koshantschikoffi" O. Bang-Haas, 1927
Horae Macrolep. 1(3): 40, pl. 5, fig. 15 ♀ D ("holotype").
Original Combination: [*Euchloe belia naina*] ♀ ab. *koshantschikoffi*
Type Locality: "Sajan mont. or.: Kultuk am Baikalsee" implied from the text, "Sajan mont. Minussinsk" from plate. [Sayan Mountains, Krasnoyarski Kray, Russia]
Types: Holotype in the ZMHB.
- a. **Euchloe naina jakutia** Back, 1991
Atalanta (Münnerstadt) 21(3/4): 193-195, cpl. 2, figs. 3 ♂ D&V (holotype), 4 ♀ D&V.
Original Combination: *Euchloe simplonia jakutia*
Type Locality: "USSR, Yakutia, Suntar Mts." [E. Sakha Autonomous Republic, Russia]
Types: Holotype in MGCL.

If it is accepted that the holotype of *E. a. ogilvia* actually represents *E. ausonides*, the populations of *E. naina* in the Yukon may be *jakutia* or unnamed.

- 380. *Euchloe olympia*** (W. H. Edwards, 1871)
 Trans. Am. Entomol. Soc. 3(3/4): 266-267, no. 1; figured by W. H. Edwards (1874), Butterflies N. Am. 2(1): pl. Anthocharis 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Anthocharis* [sic!] *Olympia*
Type Locality: "Coalburgh, W. Va...Dallas, Texas"; lectotype from "Kan." [Kanawha County, West Virginia]
Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 33, fig. 1 ♂ D&V.
 = *rosa* (W. H. Edwards, 1882)
 Papilio 2(3): 45-46, no. 1; figured by W. H. Edwards (1889), Butterflies N. Am. 3(7): pl. Anthocharis 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Anthocharis Rosa*
Type Locality: "western Texas"; defined as "Wichita County, Texas" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 34-35.
Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): fig. 2 ♂ D&V.
- 381. *Euchloe creusa*** (E. Doubleday, [1847])
a. *Euchloe creusa creusa* (E. Doubleday, [1847])
In: Gen. diurn. Lepid. (1)(5): pl. 7, fig. 1; (6): 56, no. 6.
Original Combination: *Anthocharis Crëusa*
Type Locality: "Rocky Mountains, North America"; defined as "vicinity of Banff, near 7,000' elevation, Alberta, Canada" by Opler (1967), J. Res. Lepid. 5(3): 192-193; redefined as "Rock Lake, Alberta (53° 27'N, 118° 16'W)" by J. Shepard (1984), Quaest. Entomol. 20(1): 40-41.
Types: Lectotype in BMNH, designated by J. Shepard (1984), Quaest. Entomol. 20: 42, figs. 1 ♂ D, 2 ♂ V; the same specimen figured by Verity [1911], Rhop. palae. (30-36): pl. 68, figs. 11 ♂ D.
 I.C.Z.N. *Opinion 270* placed this name on the *Official List of Specific Names in Zoology* as name no. 89.
 = *elsa* Beutenmüller, 1898
 Bull. Am. Mus. Nat. Hist. 10(13): 242, pl. 14, fig. 3 ♂ D&V.
Original Combination: *Euchloe creusa* var. *elsa*
Type Locality: "Laggan, British Columbia [sic!]" [Lake Louise, Alberta]
Types: One syntype in AMNH.
- 382. *Euchloe hyantis*** (W. H. Edwards, 1871)
a. *Euchloe hyantis hyantis* (W. H. Edwards, 1871)
 Trans. Am. Entomol. Soc. 3(3/4): 205-206, no. 1.
Original Combination: *Anthocharis* [sic!] *Hyantis*
Type Locality: "Mendocino, Cal."; defined as "vicinity of Ukiah, Mendocino Co., Calif." by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 35.
Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): fig. 3 ♂ D&V.
 = ‡"orientalides" Verity, [1908]
 Rhop. palae. (17-20): 182 [30 Nov 1908]; (30-36): pl. 50, fig. 16 ♂ D ("holotype"); ind. syst.: xxxi [31 Oct 1911].



- Original Combination:** [*Euchloe belia* var. *creusa* gen aest. var *ausonides*] forme *orientalides*
Type Locality: "Californie, Placer" implied from the legend to plate 50. [Placer County, California]
Types: "Holotype" in MZUF.
- = ‡"pseudoausonides" Verity, [1909]
 Rhop. palae. (21-23): pl. 37, figs. 16 ♂ D, 19 ♂ V [30 Apr 1909]; (30-36): 339 [31 Oct 1911]; ind. syst.: xxxi [31 Oct 1911].
Original Combination: [*Euchloe belia* var. *belioides*] forme *pseudoausonides*
Type Locality: "Californie" implied from the legend to plate 37.
Types: "Holotype" in BMNH.
- b. ***Euchloe hyantis andrewsi*** Martin, 1958
 Bull. South. Calif. Acad. Sci. 35(2): 94-95.
Original Combination: *Euchloe ausonides* r. *andrewsi*
Type Locality: "CrestLine Highway, near Lake Arrowhead, San Bernardino Co., Calif."
Types: Holotype in LACM.
383. ***Euchloe lotta*** Beutenmüller, 1898
 Bull. Am. Mus. Nat. Hist. 10(13): 243, pl. 14, fig. 4 ♂ D&V.
Original Combination: *Euchloe lotta*
Type Locality: "Colorado, Arizona, Utah, Southern California"; lectotype from "Kanab, Utah." [Kane County]
Types: Lectotype in AMNH, designated by Opler (2008), Zootaxa 1767: 68, fig. 1 ♂ D .
 This was treated as species-level taxon by Layberry *et al.* (1998), Butterflies Can.: 100-101, Opler (1999), Field Guide W. Butterflies: 157-158, and A. Warren (2005), Butterflies Ore.: 81.
 = *belioides* Verity, [1909]
 Rhop. palae. (21-23): pl. 37, figs. 17 ♀ D, 18 ♀ V [30 Apr 1909]; (30-36): 339 [31 Oct 1911]; ind. syst.: xxxi [31 Oct 1911].
Original Combination: [*Euchloe belia*] var. *belioides*
Type Locality: "Arizona" and "S. Ignatius, Montana" implied from the legend to plate 37. [St. Ignatius, Lake County, Montana]
Types: Location of syntypes not known.
 = ‡"pumilio" Strand, 1915
 Arch. Naturgesch. (A)80(11): 153-154.
Original Combination: *Euchloe creusa* cum ab. *pumilio* n. ab.
Type Locality: "Klamath Co. in Oregon...Modoc Co. in Cal....Lassen Co."
Types: "Syntype(s)" probably in DEI.
 This taxon was placed under *E. h. hyantis* by L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 74, but all areas included in the type locality are inhabited by *E. lotta* only, as detailed by A. Warren (2005), Butterflies Ore.: 81.
384. ***Euchloe guaymasensis*** Opler, 1987
 J. Lepid. Soc. 40(3): 188-189, figs. 1 ♂ D (holotype), 2 ♂ V, 3 ♂ genitalia.
Original Combination: *Euchloe guaymasensis*

Type Locality: "Mexico, Estado de Sonora, Las Avispas microwave relay, 2000' (655m), 40 mi (64 km) N Guaymas"

Types: Holotype in USNM.

R. Holland (1995), J. Lepid. Soc. 49(2): 121-125, fig. 2a ♂ D&V, 2b ♀ D&V, 124, fig. 4, map; 134, figured the female and discussed the geographic distribution of this taxon.

Tribe **Pierini** Swainson, 1820

Subtribe **Appiagina** Kuznetsov, 1929

Faun. USSR, Ins. Lepid. 1(2): 45 (as "Appiadiçi"). Type-genus: *Appias* Hübner, [1819], Verz. bekannt. Schmett. (6): 91.

Genus **Glutophrissa** Butler, 1887

Entomol. Mon. Mag. 23(275): 249. Type-species: *Appias poeyi* Butler, 1872, Proc. Zool. Soc. Lond. 1872(1): 49 (= *Papilio drusilla* Cramer, 1777, Uitl. Kapellen 2(10): 21, pl. 110, fig. C; (23): 148 (index); subspecies), by original designation.

= ‡*Andropodum* Scudder, 1875

Proc. Am. Acad. Arts Sci., Boston 10(2): 112, no. 80. Type-species: *Mylothris margarita* Hübner, [1825], Samml. exot. Schmett. 2: pl. [120], figs. 1, 2, 3, 4 (= *Papilio drusilla* Cramer, 1777, Uitl. Kapellen 2(10): 21, pl. 110, fig. C; (23): 148 (index)), by original designation. Preoccupied by *Andropodum* Hübner, 1822, Syst.-alph. Verz.: 2-5, 7-9.

*385. **Glutophrissa drusilla** (Cramer, 1779)

Uitl. Kapellen 2(10): 21, pl. 110, fig. C ♀ D; (16): 148 (index).

Original

Combination: *Pap[ilio]. Dan[aus]. Cand[idus]. Drusilla*

Type Locality: "Batavia" in error; suggested to be "Surinam" by W. Comstock (1943), Am. Mus. Novit. (1238): 1; "neotype" from "Óbidos, Pará." [Brazil]

Types: Type(s) probably lost; d'Almeida (1945), Pap. avulsos Dept. Zool. Sec. Agr. (São Paulo) 6(21): 236, designated "neotypes"; Mielke and Casagrande (1985), Revta. bras. Entomol. 29(2): 328, fig. 7 ♂ D&V, designated one of these as the neotype (#920) in UFPC. Neither of these designations are in accordance with Code Articles 75.2 and 75.3.

= *ilaire* (Godart, 1819)

In: Ency. méth. 9(Ins.)(1): 111, 142, no. 83.

Original Combination: *Pieris Ilaire*

Type Locality: "Brésil"

Types: Lectotype in MNHP, designated by Abadjiev (2005), Atalanta (Münnerstadt) 36(1/2): 132.

= *mysia* (Godart, 1819)

Ency. méth. 9(Ins.)(1): 111, 143, no. 87.

Original Combination: *Pieris Mysia*

Type Locality: "Brésil"

Types: Lectotype in MNHP, designated by Abadjiev (2005), Atalanta (Münnerstadt) 36(1/2): 133.

As first reviser, Poey (1832), Cent. Lépid. Cuba (2): [43], gave priority to *ilaire* over *mysia*.

= *albunea* (Dalman, 1823)

Analecta Entomol.: 39, no. 4.

Original Combination: *Papilio Albunea*

Type Locality: "Brasilia"

Types: Syntype in NHRS.

- = *molpadia* (Hübner, 1823)
Zutr. Samml. exot. Schmett. 2: pl. [45], figs. 259 ♂ D, 260 ♂ V [1821]; 15, no. 130 (1823, name given).
Original Combination: *Mylothris Molpadia*
Type Locality: "Brazil"
Types: Type(s) probably lost.
- = *margarita* (Hübner, [1825])
Samml. exot. Schmett. 2: pl. [120], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Mylothris Margarita*
Type Locality: Not stated.
Types: Type(s) probably lost.
Hübner [1819], Verz. bekannt. Schmett. (6): 90, listed *Mylothris margarita* without a description or indication; a *nomen nudum*.
- = *janeira* (Bönnigghausen, 1896)
Verh. Ver. naturw. Unterh. Hamb. 9: 30.
Original Combination: [*Tachyris Illaire*] *Janeira*
Type Locality: "benenne nach der örtlichkeit" "Jardin Botanico de Rio de Janeiro" [Brazil]
Types: Location of type(s) not known.
- = *augustiniana* Fernández, 1928
Asoc. españ. Progreso Ciencias. Congr. Cádiz. Sección IV, 1928: 122-123.
Original Combination: *Appias drusilla* var. *augustiniana*
Type Locality: "Iquitos" [Peru]
Types: Lectotype in MNMS, designated by Lamas (1999), Shilap Revta. Lepid. 27(105): 134, fig. 11 ♂ D&V.
- = *minima* (Breyer, 1939)
Proc. Int. Congr. Entomol. 7(Berlin)1: 36-37.
Original Combination: *A[ppias]. drusilla* f[orm]. *minima*
Type Locality: "Tabascal (Salta)" [Argentina]
Types: Syntype in MLP.
- = ‡"nana" (d'Almeida, 1913)
Trois Lepid. Nouv. Brésil: [4]; figured by d'Almeida (1939), Bol. Biol. (São Paulo) (n.s.) 4(1): pl. 4, fig. F ♀ D ("holotype").
Original Combination: [*Appias drusilla*] f. *nana*
Type Locality: "Rio de Janeiro"; holotype from "Engenho de Dentro, Rio de Janeiro." [Brazil]
Types: "Holotype" (#937) in UFPC; figured by Mielke and Casagrande (1985), Revta. bras. Entomol. 29(2): fig. 35 ♀ D&V.
- = ‡"alba" Ribeiro, 1931
Bol. Mus. Nac. (Zool.) (Rio de Janeiro) 7(1): 35.
Original Combination: *Daptonoura laria alba* form.
Type Locality: "Jamary" [Rio Jamary, Rondonia, Brazil]
Types: Location of "type(s)" not known.
‡"amarilla" (Scott, 1981)
Papilio (n.s.) 1: 3.
Original Combination: *Appias drusilla* female form *amarilla*
Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.
- a. **Glutophrissa drusilla tenuis** (Lamas, 1981)

Revta. Cienc. (Lima) 73(1): 49, figs. 10 ♂ D&V (holotype), 11 ♀ D&V.

Original Combination: *Appias drusilla tenuis*

Type Locality: "Tumbes, Matapo, La Totorá, 100m" [Peru]

Types: Holotype in MUSM.

- b. **Glutophrissa drusilla neumoegeii** (Skinner, 1894)
Entomol. News 5(4): 110, pl. 4.

Original Combination: *Tachyris ilaire* var. *neumoegeii*

Type Locality: "Indian River, Fla." [Brevard County]

Types: At least one syntype in USNM, as noted by Lamas (1993), Shilap Revta. Lepid. 21(83): 146, no. 54.

= ‡"hollandi" Röber, 1908

In: Seitz, Grossschmett. Erde 5(21): 68;
cited *Melete ilaire* (*sensu* W. Holland (1898),
Butterfly Book: pl. 35, fig. 5 ♀ D).

Original Combination: [*Appias drusilla*]
ab. *hollandi*

Type Locality: Not stated; "holotype" from
"Indian River, Brevard County, Florida."

Types: "Holotype" in CMNH.

Subtribe **Aporiina** Chapman, 1895

Entomol. Rec. 6(6): 127 (as "Aporiini"). Type-genus: *Aporia* Hübner, [1819], Verz. bekannt. Schmett. (6): 90. This name was poorly diagnosed here; it was described in greater detail in a key by Chapman (1895), Entomol. Rec. 6(7): 151.

Genus **Melete** Swainson, 1831

Zool. Illustr. (2)2(17): pl. 79, unnumbered text. Type-species: *Pieris limnoria* Godart, 1819, Enc. méth. 9(Ins.)(1): (111), 144, no. 93 (= *Papilio flippantha* Fabricius, 1793, Ent. syst. 3(1): 202, no. 631; synonym: a subspecies of *Papilio lycimnia* Cramer, 1777, Uitl. Kapellen 2 (9): 13-14, pl. 105, figs. E, F; (16): 149 (index)), by original designation.

= *Daptonoura* Butler, [1870]

Cat. Diurn. Lepid. Fabricius Brit. Mus.: 209, Type-species: *Papilio lycimnia* Cramer, 1777, Uitl. Kapellen 2(9): 13-14, pl. 105, figs. E, F; (16): 149 (index), by original designation.

*386. **Melete lycimnia** (Cramer, 1777)

Uitl. Kapellen 2(9): 13-14, pl. 105, figs. E ♂ D, F ♂ V; (16): 149 (index).

Original Combination: *Pap[ilio]. Dan[aus].*

Cand[idus]. Lycimnia

Type Locality: "Surinamen" "Suriname"

Types: Syntypes (#665088–91) in BMNH.

= ‡*agrippina* (Hübner, [1819])

Verz. bekannt. Schmett. (6): 91, no. 949.

Original Combination: *M[ylotris]. Agrippina*

Proposed to replace *Papilio lycimnia* Cramer, 1777, erroneously thought preoccupied; a junior objective synonym of *Papilio lycimnia*.

a. **Melete lycimnia isandra** (Boisduval, 1836)

Spec. gén. Lépid. 1: 490-491, no. 79.

Original Combination: *Pieris Isandra*

Type Locality: "Mexique"

Types: Holotype (#720272) in BMNH.

Recorded from Texas by Dauphin *et al.* (2005), News Lepid. Soc. 47(2): 43, 46, 19 figs.

- = *kleta* Fruhstorfer, 1907
Stettiner Entomol. Ztg. 68(2): 273.
Original
Combination: [*Melete isandra* subsp.] *kleta*
Type Locality: "Honduras"; lectotype from "San Pedro Sula."
Types: Lectotype (#720320) in BMNH, designated by Abadjiev (2006), Zootaxa 1143: 58.

Genus *Neophasia* Behr, 1869

Trans. Am. Entomol. Soc. 2(3): 303. Type-species: *Pieris menapia* C. Felder & R. Felder, 1859, Wien. entomol. Monatschr. 3(9): 271, no. 18, by designation of W. F. Kirby [1870], Zool. Rec. 6(1869): 357.

- 387. *Neophasia menapia*** (C. Felder & R. Felder, 1859)
a. *Neophasia menapia tehachapina* J. Emmel, T. Emmel & Mattoon, 1998
Syst. W. N. Am. Butterflies (11): 127-128, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Neophasia menapia tehachapina*
Type Locality: "California: Kern Co.; Tehachapi Mts., canyon on the north slope of Double Mountain"
Types: Holotype in LACM.
b. *Neophasia menapia menapia* (C. Felder & R. Felder, 1859)
Wien. Entomol. Monatschr. 3(9): 271, no. 18; figured by C. Felder and R. Felder (1865), Reise Novara Zool. (2): pl. 25, fig. 7 ♂ D.
Original Combination: *Pieris Menapia*
Type Locality: "Mormenenlande am Salzsee"; suggested to be "eastern flanks of the Californian or Nevadan mountains somewhere west of the general region of Reno and Carson City, Nevada" by F. Brown (1967), J. Lepid. Soc. 21(4): 272; defined as "pine forest just W of Pyramid Lake Nevada" by Scott (1981), Papilio (n.s.) 1: 2; corrected to "vicinity of Davis Creek Park, Washoe Valley, Washoe County, Nevada" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (5): 88.
Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (5): 88, figs. 4 ♂ D, 5 ♂ V.
= *ninonia* (Boisduval, 1869)
Annls. Soc. Entomol. Belg. 12: 38, no. 5.
Original Combination: *Pieris Ninonia*
Type Locality: "dans la partie le plus orientale de la Californie"; defined as "pine forest just W of Pyramid Lake Nevada" by Scott (1981), Papilio (n.s.) 1: 2; corrected to "vicinity of Davis Creek Park, Washoe Valley, Washoe County, Nevada" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 24.
Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 24, figs. 162 ♂ D, 163 ♂ V.
= ‡"nigracosta" J. A. Comstock, 1918
Lepidopterist 2(2): 13, pl. 4, fig. 1 ♂ D, 2 ♂ ("holotype"); figured by Comstock (1927), Butterflies Calif.: pl. 7, fig. 4 ♂ D.

Original Combination: *Neophasia*

Menapia F. *Nigracosta*

Type Locality: "high Sierras of Tulare County, California, altitude 9,000 to 10,000 ft. (Near Olancho Peak)"; holotype from "Monache Meadows, Tulare Co., Cal."

Types: "Holotype" in LACM.

c. ***Neophasia menapia melanica*** Scott, 1981

Papilio (n.s.) 1: 2.

Original Combination: *Neophasia menapia melanica*

Type Locality: "6 mi. W. Willits, Mendocino Co., Calif."

Types: Holotype in EMEC.

d. ***Neophasia menapia tau*** (Scudder, 1861)

Proc. Boston Soc. Nat. Hist. 8: 183-184.

Original Combination: *Pieris Tau*

Type Locality: "Gulf of Georgia"; interpreted to be "near Port Townsend, Wash. Terr." by H. Hagen (1883), Proc. Boston Soc. Nat. Hist. 22: 164. [Jefferson County, Washington]

Types: Syntypes (#16601) in MCZ.

A. Warren (2005), Butterflies Ore.: 68-69, discussed the application of this name to Pacific Northwestern populations of *N. menapia*.

= ‡"suffusa" (Stretch, 1882)

Papilio 2(7): 109-110, pl. 2, figs. 3 ♀ D, 4 ♀ V.

Original Combination: [*Pieris Menapia*] [female form] *suffusa*

Type Locality: "Country round Spokane Falls, Washington Territory"

Types: "Holotype" in MCZ.

e. ***Neophasia menapia magnamenapia*** Austin, 1998

Syst. W. N. Am. Butterflies (44): 533, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Neophasia menapia magnamenapia*

Type Locality: "Nevada: Lincoln County; Wilson Creek Range, Wilson Peak Road (access from road to Atlanta), 2134 m, T5N R68E S8-9 on USGS Trail Canyon, Nev. 7.5' quadrangle"

Types: Holotype in MGCL.

388. ***Neophasia terlooii*** Behr, 1869

Trans. Am. Entomol. Soc. 2(3): 304.

Original Combination: *N[eophasia]. Terlooii*

Type Locality: "pine forest region of the Sierra Madre in a cold, inhospitable region" [E of Mazatlán, Sinaloa, Mexico]

Types: Holotype destroyed in the 1906 San Francisco earthquake and fire.

Even though this name is a patronym for Baron Popelair de Terloot, there is no evidence for this in the original description. Behr (1889), Proc. Calif. Acad. Sci. (2)2(7): 92, emended the name to *terlootii*, but that was an unjustified emendation; the name must stand as originally spelled (Code Article 32.2).

= *epyaxa* Strecker, 1900

Descr. *Neophasia epyaxa*: 1.

Original Combination: *Neophasia Epyaxa*

Type Locality: "Cochise County, Southern Arizona"

Types: Holotype in FMNH.

- This publication was duplicated by Strecker (1900),
Lepid. Rhop. Het. (suppl. 3): 38.
= *princetonia* (W. Barnes, 1900)
In: Skinner, Entomol. News 11(7): 533.
Original Combination: *Archonias princetonia*
Type Locality: Not stated; Poling (1900), Can. Entomol.
32(12): 358, mentioned "Cochise County, Arizona";
syntypes from "Huachuca Mts."
Types: Syntypes in USNM.
Poling (1900), Can. Entomol. 32(12): 358, redescribed
this taxon (as *Neophasia Terlootii*, var. *Princetonia*).

Genus **Catasticta** Butler, 1870

Cist. Entomol. 1(3): 34, no. 12; 43, no. 12. Type-species: *Euterpe nimbice* Boisduval, 1836, Spec. gén. Lépid. 1: 409-410, no. 6, by original designation.

- = *Archonoia* Reissinger, 1972
Entomol. Z. 82(10): 111. Type-species: *Catasticta strigosa* Butler, 1896, Ann. Mag. Nat. Hist. (6)17(97): 54, by original designation.
- = *Leodontoia* Eitschberger & Racheli, 1998
Neue Entomol. Nachr. 41: 11-2. Type-species: *Euterpe pieris* Hopffer, 1874, Stettiner Entomol. Ztg. 35(10-12): 332, by original designation.
 - ‡"*Pierinoia*" Reissinger, 1972
Entomol. Z. 82(11): 114. Type-species: *Euterpe pieris* Hopffer, 1874, Stettiner Entomol. Ztg. 35(10-12): 332, by original designation. This name was published without a description and is unavailable (Code Article 13.1.1).
 - ‡"*Leodontoia*" Reissinger, 1972
Entomol. Z. 82(11): 117. Type-species: *Catasticta cerberus* Godman & Salvin, 1889, Biol. centr.-amer., Lepid. Rhop. 2(78): 120; 3(80): pl. 64, figs. 19, 20, by original designation. This name was published without a description and is unavailable (Code Article 13.1.1).
 - ‡"*Hesperochoia*" Reissinger, 1972
Entomol. Z. 82(11): 120. Type-species: *Catasticta clara* Röber, 1909, in: Seitz, Grossschmett. Erde 5(16): 74; (18): pl. 22g, fig. [6] (= *Catasticta poujadei* Dognin, 1887, Naturaliste (2)1(16): 188; subspecies), by original designation. This name was published without a description and is unavailable (Code Article 13.1.1).

389. **Catasticta nimbice** (Boisduval, 1836)

- a. **Catasticta nimbice nimbice** (Boisduval, 1836)
Spec. gén. Lépid. 1: 409-410, no. 6 (♂ only).
Original Combination: *Euterpe Nimbice*
Type Locality: "Mexique"; stated to be "probably the vicinity of Orizaba, Veracruz" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 68.
Types: Syntypes (#662269, 662270) in BMNH.

Subtribe **Pierina** Swainson, 1820

Genus **Pieriballia** Klots, 1933

Entomol. Am. (n.s.) 12(4): 221. Type-species: *Pieris mandela* C. Felder & R. Felder, 1861, Wien. Entomol. Montaschr. 5(3): 80, no. 30 (= *Pieris viardi* Boisduval, 1836, Spec. gén. Lépid. 1: 439-440, no. 3; subspecies), by original designation.

- = ‡*Neogeia* Verity, 1947
Farfalle diurn. Ital. 3. Type-species: *Pieris mandela* C. Felder & R. Felder, 1861, Wien. Entomol. Montaschr. 5(3): 80, no. 30 (= *Pieris viardi* Boisduval, 1836, Spec. gén. Lépid. 1: 439-440, no. 3; subspecies), by original designation. A junior objective synonym of *Pieriballia* Klots, 1933.

- 390. **Pieriballia viardi** (Boisduval, 1836)
 - a. **Pieriballia viardi viardi** (Boisduval, 1836)
Spec. gén. Lépid. 1: 439-440, no. 3.
Original Combination: *Pieris Viardi*
Type Locality: "Mexique"
Types: Holotype (#720034) in BMNH; figured by Abadjiev (2006), Zootaxa 1143: pl. 59, figs. 467 ♀ D, 468 ♀ V.
Recorded from Texas by Bordelon and Knudson (2006), News Lepid. Soc. 48(1): 3.
 - = *habra* (E. Doubleday, 1846)
Ann. Mag. Nat. Hist. [1]17(109): 22-23.
Original Combination: *P[eris]. Habra*
Type Locality: "Honduras" "at some distance from Balize [*sic!*]"
Types: Lectotype (#720033) in BMNH, designated by Abadjiev (2006), Zootaxa 1143: 49, pl. 59, figs. 469 ♂ D, 470 ♂ V.
 - = *laogore* (Godman & Salvin, 1889)
Biol. centr.-amer., Lepid. Rhop. 2(58): 134, no. 7.
Original Combination: *Pieris laogore*
Type Locality: "Mexico, Dos Arroyos in Guerrero...Oaxaca"
Types: Lectotype (#720032) in BMNH, designated by Abadjiev (2006), Zootaxa 1143: 59, pl. 59, figs. 471 ♀ D, 472 ♀ V.
 - = ‡"intermedia" (Vázquez, 1954)
An. Instit. Biol., Univ. Nac. Auton. Méx. (Zool.) 24(2): 444.
Original Combination: *Itaballia (Pieriballia) viardi viardi* f[orma]. fem[inina]. *intermedia*
Type Locality: "Tezonapa y Presidio, Ver."
[Veracruz, Mexico]
Types: "Holotype" in MGCL.

Genus *Itaballia* Kaye, 1904

Trans. Entomol. Soc. Lond. (4)1904(2): 204. Type-species: *Pieris pandosia* Hewitson, 1853, Ill. exot. Butterflies 1(7): [8], pl. Pieris II, fig. 14, by original designation.

- *391. **Itaballia demophile** (Linnaeus, 1763)
In: Johansson, Cent. Ins. Rar.: 23, no. 66; cited Clerck [1764], Icon. Ins. 2: pl. 28, fig. 4 ♀ D&V, even though it was published later; often cited as from Amoen. acad. 6: 406, no. 65, a subsequent reprint.
Original Combination: *Papilio D[anaus]. Demophile*
Type Locality: "in Indiis"
Types: Type(s) apparently lost, as noted by Honey and Scoble (2001), Zoo. J. Linn. Soc. 132(3): 318.
- = *amathonte* (Cramer, 1777)

Uitl. Kapellen 2(10): 29, pl. 116, figs. A ♂ D, B ♂ V; (16): 147 (index).

Original

Combination: *Pap[ilio]. Dan[aus]. Cand[idus]. Amathont*
e

Type Locality: "Westindiën, op Essequibo en Demarary" "Indes-Occidentales, à Essequibo et Demerary" [Guyana]

Types: Type(s) possibly lost.

= *molphea* (Cramer, 1777)

Uitl. Kapellen 2(10): 29, pl. 116, fig. C ♀ D; (16): 149 (index).

Original Combination: *Pap[ilio]. Dan[aus]. Cand[idus]. Molphea*

Type Locality: "Essequibo" [Guyana]

Types: Type(s) possibly lost.

a. ***Itaballia demophile centralis*** Joicey & Talbot, 1928
Bull. Hill Mus. 2 (1): 21.

Original Combination: *Itaballia calydonia centralis*

Type Locality: "Quiriqua, Guatemala, 4,000–5,000 feet"

Types: Holotype (#662496) in BMNH.

Recorded from Texas by Dauphin *et al.* (2005), News Lepid. Soc. 47(2): 43, 46, 19 figs.

= ‡"magna" Fruhstorfer, 1907

Stettiner Entomol. Ztg. 68(2): 276.

Original Combination: [*Perrhybris demophile calydonia*] forma *magna*

Type Locality: "Honduras... Columbien"; "syntypes" from "San Pedro Sula, Honduras."

Types: "Syntypes" in BMNH.

Genus **Leptophobia** Butler, 1870

Cist. Entomol. 1(3): 35, no. 18; 45, no. 18. Type-species: *Pieris eleone* E. Doubleday, [1847], *in*: Gen. diurn. Lepid. (1)(5): 50, no. 129, pl. 6, fig. 6, by original designation.

392. *Leptophobia aripa (Boisduval, 1836)

Spec. gén. Lépid. 1: 528, no. 131.

Original Combination: *Pieris Aripa*

Type Locality: "Caracas" [Venezuela]

Types: Syntype possibly in MNHP or lost.

= *limbata* (Kirby, 1887)

Ann. Mag. Nat. Hist. (5)19: 361.

Original Combination: *Daptonura* [sic!] *limbata*

Type Locality: "Ecuador"

Types: Syntype (#720220) in BMNH; figured by Abadjiev (2006), Zootaxa 1143: pl. 46, figs. 367 ♀ D, 368 ♀ V.

= ‡"deserta" Fruhstorfer, 1908

Int. Entomol. Z. 1(40): 305.

Original Combination: [*Leptophobia aripa elodia*] forma *deserta*

Type Locality: "Ecuador"; syntype in BMNH labeled "Ecuador, Baños." [Tungurahua]

Types: "Syntype" (#720231) in BMNH.

a. ***Leptophobia aripa elodia*** (Boisduval, 1836)

Spec. gén. Lépid. 1: 529-530, no. 134.

Original Combination: *Pieris Elodia*

Type Locality: "Mexique, Cuba?"

Types: Syntype (#720216) in BMNH.

Recorded from Texas by Opler and A. Warren (2002),
Sci. Names List Butterflies N. A.: 19.



Genus *Pieris* Schrank, 1801

Fauna boica 2(1): 152, no. 198. Type-species: *Papilio brassicae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467-468, no. 58, by designation of Latreille (1810), Consid. gén. Anim. Crust. Arach. Ins.: 351, 440. Robbins and Henson (1986), J. Lepid. Soc. 40(2): 79-92, discussed the various generic arrangements and concluded that *Pieris* [with the following synonymy] forms a monotypic genus related to *Perrhybris* Hübner, [1825], *Itaballia* Kaye, 1904, and *Ganyra* Billberg, 1820.

- = ‡*Pieris* Latreille, 1804
Nouv. Dict. Hist. Nat. 24(Tab.): 180, 200. Type-species: *Papilio brassicae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467-468, no. 58, by monotypy. Preoccupied by and a junior objective synonym of *Pieris* Schrank, 1801.
- = ‡*Mancipium* Hübner, [1806]
Tentamen: [1]. Type-species: *Papilio brassicae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467-468, no. 58, by monotypy. The Tentamen was suppressed by I.C.Z.N. *Opinion* 97; I.C.Z.N. *Opinion* 278 placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 84. A junior objective synonym of *Pieris* Schrank, 1801.
- = ‡*Danaus* Oken, 1815
Lehrbuch Naturgesch. 3(Zool.)(1): 723. Type-species: *Papilio brassicae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467-468, no. 58, by designation of Crotch (1872), Cist. Entomol. 1(4): 60. I.C.Z.N. *Opinion* 417 suppressed Oken's work, making this name unavailable. Preoccupied by *Danaus* Kluk, 1780, Zwierz. Hist. Nat. Pocz. Gospod. 4: 83, and a junior objective synonym of *Pieris* Schrank, 1801.
- = ‡*Ganoris* Dalman, 1816
K. svenska VetenskAkad. Handl. 37(1): 61-62, no. 8; 86-90, nos. 1-10; tablet 1, no. 8; tablet 2, no. 8. Type-species: *Papilio brassicae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467-468, no. 58, by original designation. A junior objective synonym of *Pieris* Schrank, 1801.
- = ‡*Andropodum* Hübner, 1822
Syst.-alph Verz.: 2-5, 7-9. Type-species: *Papilio brassicae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467-468, no. 58, by designation of Hemming (1933), Entomol. 66(844): 199. A junior objective synonym of *Pieris* Schrank, 1801. This name was spelled "Antropodum" on page 3 of the original description, representing an incorrect original spelling.
- = ‡*Tachyptera* Berge, 1842
Schmetterlingsbuch: 19, 92-105. Type-species: *Papilio brassicae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467-468, no. 58, by designation of Hemming (1934), Entomol. 67(849): 38. A junior objective synonym of *Pieris* Schrank, 1801.
- = *Artogeia* Verity, 1947
Farfalle diurn. d'Italia 3: 192-193. Type-species: *Papilio napi* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 468, no. 60, by original designation.

napi group Robbins and Henson, 1986
J. Lepid. Soc. 40(2): 86.

393. *Pieris angelika* Eitschberger, [1984]

Herbipoliana 1(1): 340-342, 1(2): pl. 523, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V, 13-48, pl. 525, figs. 1-50, pl. 527, figs. 1-16, unassociated figs. 1017-1022, 1396-1406, 1598, 1599, 1602 ♂ genitalia, figs. 1581, 1582, 1584-1586 ♀ genitalia.

Original Combination: *Pieris angelika angelika*

Type Locality: "Canada, Yukon, Keno, 4600 ft."

Types: Holotype in MGCL.

This name was first proposed by Eitschberger (1981), *Atalanta* (Münnerstadt) 11(5): 367-370, but without a description; a *nomen nudum*.

394. *Pieris marginalis* Scudder, 1861

As first revisers, W. Barnes and McDunnough (1917), *Check List Lepid. Bor. Am.*: 3: no. 35, accorded precedence to *marginalis* over *pallida*, and Geiger and Shapiro (1992), *Z. zool. Syst. Evolut.-forsch.* 30(2): 118, accorded precedence to *marginalis* over *venosa*.

a. *Pieris marginalis pseudobryoniae* W. Barnes & McDunnough, 1916

Contr. Nat. Hist. Lepid. N. Am. 3(2): 57-58; cited Verity, [1908], *Rhop. Palaearctica*: 146, pl. 32, figs. 36, 37, and W. G. Wright (1905), *Butterflies W. Coast*: pl. 6, figs. 42bb, 43b.

Original Combination: [*Pieris napi*] form *pseudobryoniae*

W. Barnes & McDunnough adopted *Pieris napi* var. *frigida pseudobryoniae* Verity [1908] to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

The details of the authorship of this name were addressed by Guppy & Kondla (2010), *Tax. Rep. Int. Lepid. Surv.* 7(5): 5-6.

= ‡"pseudobryoniae" Verity, [1908]
Rhop. Palaearctica: 146 [31 Jan 1908]; pl. 32, fig. 36 ♀ D (lectotype), 37 ♀ D [30 Apr 1909]; ind. syst.: xxviii [31 Oct 1911].

Original Combination: [*Pieris napi*] var. *frigida* [forme] *pseudobryoniae*

Type Locality: "Nulato, Alaska" implied from the legend to pl. 32, fig. 36.

Types: Lectotype in MNHP (de Joannis collection), designated by Guppy & Kondla (2010, *Tax. Rep. Int. Lepid. Surv.* 7(5): 6.

As a quadrinomial, this name is unavailable (Code Article 45.5).

= *browni* Eitschberger, [1984]
Herbipoliana 1(1): 332; 1(2): pl. 519, figs. 27 ♂ D, 28 ♂ V (holotype); 29-36 ♂&♀, D&V.

Original Combination: *Pieris marginalis browni*

Type Locality: "Alaska, U. S. A., 'Seaward' Peninsula (korrekte Schreibweise is Seward Peninsula), Kongarok Rd., Mile 48, Big Creek, 750 ft."

Types: Holotype in MGCL.

b. *Pieris marginalis shapiro* Eitschberger, [1984]

Herbipoliana 1(1): 330; 1(2): pl. 519, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V, 13-26, unassociated figs. 1600, 1601 ♂ genitalia, 1583 ♀ genitalia.

Original Combination: *Pieris marginalis shapiro*

Type Locality: "U.S.A., Alaska, Yukon Delta Hooper Bay, Kikuktok Mt., 3 m"

Types: Holotype in MGCL.

- c. ***Pieris marginalis hulda*** W. H. Edwards, 1869
Trans. Am. Entomol. Soc. 2(4): 370.

Original Combination: *Pieris Hulda*

Type Locality: "Kodiak" [Alaska]

Types: Neotype (possible holotype) in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 103, fig. 25 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 67, fig. 24 ♂ D.

- d. ***Pieris marginalis meckya*** Eitschberger, [1984]
Herbipoliana 1(1): 322; 1(2): pl. 515, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V, 29-36, pl. 517, figs. 1-36, pl. 519, figs. 1-6, unassociated fig. 1587 ♀ genitalia.

Original Combination: *Pieris marginalis meckya*

Type Locality: "U.S.A., Alaska, Little Susitna River, 1100 ft., Talkeetna Mts., 8 miles N. of Palmer"

Types: Holotype in MGCL.

Geiger and Shapiro (1992), Z. zool. Syst. Evolut.-forsch. 30(2): 117, treated this as a species-level taxon, but further research is needed to corroborate this arrangement.

- = ‡"passosi" B. Warren, 1968
Entomol. Rec. & J. Var. 80(3): 62-64, pl. 4, figs. 3 ♂ V, 4 ♂ V, 5 ♀ V, 6 ♀ V.

Original Combination: *P[ieris]. passosi* Hybrid

Type Locality: "Palmer, south Alaska"

Types: "Syntypes" in AMNH. Guppy & Kondla (2010), Tax. Rep. Int. Lepid. Surv. 7(5): 12, fig. 9 ♂ D&V, designated a 'lectotype' but, in accordance with the Code, such an action was not necessary.

Described as a hybrid between *hulda* and *oleracea*; this name is unavailable (Code Article 1.3.3).
Guppy & Kondla (2010), Tax. Rep. Int. Lepid. Surv. 7(5): 11-12, made a detailed argument for considering this a valid name, but the consistent application of the word 'hybrid' to this name throughout Warren's text removes doubt as to the application of the pertinent Code Article as cited.

- e. ***Pieris marginalis guppyi*** Eitschberger, [1984]
Herbipoliana 1(1): 324; 1(2): pl. 513, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5-20, 25-36 ♂&♀, D&V, pl. 515, figs. 1-22, pl. 531, figs. 14-17.

Original Combination: *Pieris marginalis guppyi*

Type Locality: "Alaska, Skagway"

Types: Holotype in CMNH.

- = ‡"postguppyi" Eitschberger, [1984]
Herbipoliana 1(1): 324, pl. 513, fig. 21 ♂ D, 22 ♂ V, 23 ♀ D, 24 ♀ V.

Original Combination: *Pieris marginalis guppyi* gen. aest. *postguppyi*

Type Locality: "Alaska, Skagway"

Types: No type(s) designated.

As a quadrinomial, this name is unavailable (Code Article 45.5).

- f. **Pieris marginalis tremblayi** Eitschberger, [1984]
Herbipoliana 1(1): 327; 1(2): pl. 511, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V, 9-32 ♂&♀, D&V.
Original Combination: *Pieris marginalis tremblayi*
Type Locality: "Canada, British Columbia, Pink Mountain, 5000 ft., Alaska Highway, Mile 147"
Types: Holotype in MGCL.
- g. **Pieris marginalis reicheli** Eitschberger, [1984]
Herbipoliana 1(1): 301; 1(2): pl. 507, figs. 25 ♂ D, 26 ♂ V (holotype); 27-34 ♂&♀, D&V; pl. 509, figs. 1-38; pl. 511, figs. 1-4, unassociated figs. 1346, 1369-1375, 1381, 1604-1606 ♂ genitalia, 1376, 1387, 1574-1579 ♀ genitalia.
Original Combination: *Pieris marginalis reicheli*
Type Locality: "Canada, British Columbia, Revelstoke"
Types: Holotype in MGCL.
‡"postreicheli" Eitschberger, [1984]
Herbipoliana 1(1): 301.
Original Combination: *Pieris marginalis reicheli* gen. aest. *postreicheli*
Type Locality: Not stated.
Types: No type(s) designated.
As a quadrinomial, this name is unavailable (Code Article 45.5); it is also a *nomen nudum*.
- h. **Pieris marginalis marginalis** Scudder, 1861
Proc. Boston Soc. Nat. Hist. 8: 183.
Original Combination: *Pieris marginalis*
Type Locality: "Gulf of Georgia...Crescent City, California"; lectotype from "Washington Territory." The "Gulf of Georgia" was interpreted to be "near Port Townsend, Wash. Terr." by H. Hagen (1883), Proc. Boston Soc. Nat. Hist. 22: 164. [Jefferson County, Washington]
Types: Lectotype (#16598) in MCZ, designated by Eitschberger [1984], Herbipoliana 1(1): 284; (2): pl. 495, figs. 11 ♂ D, 12 ♂ V.
= *pallida* Scudder, 1861
Proc. Boston Soc. Nat. Hist. 8: 183.
Original Combination: *Pieris pallida*
Type Locality: "Gulf of Georgia"; interpreted to be "near Port Townsend, Wash. Terr." by H. Hagen (1883), Proc. Boston Soc. Nat. Hist. 22: 164. [Jefferson County, Washington]
Types: Syntypes (#16599) in MCZ.
= ‡"flava" W. H. Edwards, 1881
Papilio 1(6): 94, no. 3 (description), 98 (name).
Original Combination: [*Pieris Oleracea*] aberr. *Flava*
Type Locality: "Washington Terr."
Types: Type(s), if they can be identified, probably in CMNH.
This name might be interpreted as a *nomen nudum*.
- i. **Pieris marginalis sequoia** J. Emmel, T. Emmel & Mattoon, 1998
Syst. W. N. Am. Butterflies (11): 128-131, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.
Original Combination: *Pieris napi sequoia*

Type Locality: "California: Humboldt County; Prairie Creek Redwood State Park, 50 meters elevation"

Types: Holotype in LACM.

- j. **Pieris marginalis venosa** Scudder, 1861
Proc. Boston Soc. Nat. Hist. 8: 182-183.

Original Combination: *Pieris venosa*

Type Locality: "San Mateo and Mendocino city, California"; lectotype from "San Mateo." [San Mateo County]

Types: Lectotype (#16597) in MCZ, designated by Eitschberger [1984], *Herbipoliana* 1(1): 253; (2): pl. 481, figs. 11 ♂ D, 12 ♂ V.

= ♀ "flava" W. H. Edwards, 1881

Papilio 1(6): 89, no. 2 (description), 98 (name).

Original Combination: [*Pieris Venosa*] aberr.

♀ *Flava*

Type Locality: Not stated.

Types: No type(s) designated.

This name might be interpreted as a *nomen nudum*.

- k. **Pieris marginalis castoria** Reakirt, 1866

Proc. Acad. Nat. Sci. Philad. 18(3): 238, no. 2.

Original Combination: *Pieris castoria*

Type Locality: "California"; suggested to be "Castoria [= French Camp], San Joaquin County" by Shapiro [1978], *J. Res. Lepid.* 16(4): 197-200.

Types: Type(s) apparently lost; figured by Strecker (1874), *Lepid. Rhop. Het.* (8): pl. 8, figs. 4 ♂ D&V, 5 ♀ D.

= ♀ *nasturtii* Boisduval, 1869

Ann. Soc. Entomol. Belg. 12: 38-39, no. 7.

Original Combination: *Pieris Nasturtii*

Type Locality: "dans les champs decouverts au pied de la Juba"; defined as "Hwy. 70 at Soda Creek, E. Branch N. Fork Feather River Canyon, 2500' elev., Plumas County, California" by J. Emmel *et al.* (1998), *Syst. W. N. Am. Butterflies* (2): 24.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), *Syst. W. N. Am. Butterflies* (2): figs. 165 ♂ D, 166 ♂ V; figured by Verity [1908], *Rhop. palae.* (17-20): pl. 33, fig. 5 ♂ V. Preoccupied by *Pieris nasturtii* W. H. Edwards, 1864, *Proc. Entomol. Soc. Philad.* 2(4): 501.

= *resedae* Boisduval, 1869

Ann. Soc. Entomol. Belg. 12: 39, no. 8.

Original Combination: *Pieris Resedae*

Type Locality: "sur les bords du Sacramento" probably in error, as discussed by J. Emmel *et al.* (1998), *Syst. W. N. Am. Butterflies* (2): 24-25.

Types: Holotype in USNM, figured by Verity [1908], *Rhop. palae.* (127-20): pl. 33, fig. 3 ♂ D, labeled "Californie"; subsequently figured by J. Emmel *et al.* (1998), *Syst. W. N. Am. Butterflies* (2): figs. 168 ♀ D, 169 ♀ V.

= *iberidis* Boisduval, 1869

Ann. Soc. Entomol. Belg. 12: 39, no. 9.

Original Combination: *Pieris Iberidis*

Type Locality: “dans les champs”; defined as “Hwy. 70 at Soda Creek, E. Branch N. Fork Feather River Canyon, 2500' elev., Plumas County, California” by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 25.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 25, figs. 171 ♀ D, 172 ♀ V; figured by Verity [1908], Rhop. Palae. (17-20): pl. 32, fig. 43 ♀ D.

= *microstriata* J. A. Comstock, 1924

Bull. South. Calif. Acad. Sci. 23(4): 125; 23(5): pl. 8, figs. 12 ♂ D (holotype), 13 ♂ V, 14 ♀ D.

Original Combination: *Pieris napi microstriata*

Type Locality: “Eldredge, Sonoma County, California”

Types: Holotype in LACM.

= ‡“cottlei” Gunder, 1925

Entomol. News 36(7): 197-198, no. 9, pl. 5, fig. 9 ♂ D (“holotype”).

Original Combination: *Pieris*

napi var. *castoria* ab. ♂ *cottlei*

Type Locality: “Anderson Springs, Lake County, California”

Types: “Holotype” in AMNH.

I. *Pieris marginalis ziegleri* Eitschberger, 1991

Atalanta (Münnerstadt) 22(2-4): 353-354.

Original Combination: *Pieris marginalis ziegleri*

Type Locality: “U.S.A., Montana, Gallatin Co., Hwy 191 betw. West Yellowstone and Big Sky, 1800-2100m”

Types: Holotype in MGCL.

m. *Pieris marginalis pallidissima* W. Barnes &

McDunnough, 1916

Contr. Nat. Hist. Lepid. N. Am. 3(2): 59, pl. 6, figs. 4 ♂ D (lectotype), 5 ♀ D, 10 ♂ V.

Original Combination: [*Pieris napi*] *pallidissima*

Type Locality: “Provo, Utah” [Utah County]

Types: Lectotype in USNM, designated by Guppy & Kondla (2010), Tax. Rep. Int. Lepid. Surv. 7(5): 13.

= ‡“antepallidissima” Eitschberger, [1984]
Herbipoliana 1(1): 306.

Original Combination: *Pieris marginalis pallidissima* gen. vern. *antepallidissima*

Type Locality: Not stated.

Types: No type(s) designated.

As a quadrinomial, this name is unavailable (Code Article 45.5); it is also a *nomen nudum*.

n. *Pieris marginalis macdunnoughii* C. Remington, 1954

Lepid. News 8(3/4): 75.

Original Combination: *Pieris napi macdunnoughii*

Proposed to replace *Pieris napi pseudonapi* W. Barnes and McDunnough (1916), preoccupied, with the same data (Code Article 60.3); spelled “mcdunnoughi” by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 72, representing an unjustified emendation.

= ‡*pseudonapi* W. Barnes & McDunnough, 1916
Contr. Nat. Hist. Lepid. N. Am. 3(2): 57, pl. 6, figs. 1 ♂ D, 2 ♀ D, 3 ♀ D.

Original Combination: [*Pieris napi*] *pseudonapi*

Type Locality: "Silverton, Colo." [San Juan County]

Types: Holotype in USNM.

Preoccupied by *Pieris melete pseudonapi* Verity, [1911], Rhop. Palaearctica: legend to pl. 59, figs. 13, 14, 15, 16, 17.

‡"postmcdunnoughii" Eitschberger, [1984] *Herbipoliana* 1(1): 309.

Original Combination: *Pieris marginalis mcdunnoughi* gen. aest. *postmcdunnoughii*

Type Locality: Not stated.

Types: No type(s) designated.

As a quadrinomial, this name is unavailable (Code Article 45.5); it is also a *nomen nudum*.

o. *Pieris marginalis mogollon* Burdick, 1942

Can. Entomol. 74(8): 154-155.

Original Combination: *Pieris napi mogollon* race nov.

Type Locality: "Mogollon Range, Catron Co., New Mexico"

Types: Holotype (No. #5222) in CNC.

= ‡"warreni" dos Passos, 1965
J. N. Y. Entomol. Soc. 73(3): 136.

Original Combination: *Pieris narina mogollon* gen. aest. *warreni*

Type Locality: "White Mountains of Arizona"

Types: "Holotype" in AMNH.

‡"postmogollon" Eitschberger, [1984] *Herbipoliana* 1(1): 314.

Original Combination: *Pieris marginalis mogollon* gen. aest. *postmogollon*

Type Locality: Not stated.

Types: No type(s) designated.

As a quadrinomial, this name is unavailable (Code Article 45.5); it is also a *nomen nudum*.

395. *Pieris oleracea* (T. Harris, 1829)

a. *Pieris oleracea oleracea* (T. Harris, 1829)

New England Farmer 7(51): 402.

Original Combination: *Pontia Oleracea*

Type Locality: "New Hampshire, and Massachusetts"

Types: Syntypes in MCZ.

= *cruciferarum* Boisduval, 1836
Spec. gén. Lépid. 1: 519, no. 119.

Original Combination: *Pieris Cruciferarum*

Type Locality: "les provinces septentrionales des Etats-Unis"; stated to be 'New York and New England' by L. Miller and F. Brown (1981), *Mem. Lepid. Soc.* (2): 71.

Types: Holotype in BMNH; figured by Verity [1908], *Rhop. palae.* (17-20): pl. 32, fig. 41 ♂ D, labeled "Am. boréale."

= *casta* W. Kirby, 1837
In: Richardson, Fauna Bor.-Am. [4]: 288, no. 1, pl. 3, fig. 1 ♂ D.

Original Combination: *Pontia Casta*

Type Locality: "taken in Lat. 65°"; stated to be "Great Bear Lake, Northwest Territories" by L. Miller and F. Brown (1981), *Mem. Lepid. Soc.* (2): 71.

Types: Type(s) possibly in BMNH.

- = ‡"hyemalis" W. H. Edwards, 1881
Papilio 1(6): 90, no. 3, 98, pl. 2, fig. 8 ♂ D&V.
Original Combination: [*Pieris*] *Oleracea hyemalis*
Type Locality: "New York"; suggested to be "Hunter, Greene Co., New York" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 71.
Types: "Type(s)" probably in CMNH.
The text clearly indicates that this taxon was described as an individual variant.
- = ‡"aestiva" W. H. Edwards, 1881
Papilio 1(6): 93, no. 3, 98, pl. 3, figs. 15 ♂ D&V, 16 ♀ D.
Original Combination: [*Pieris Oleracea*] summer brood *aestiva*
Type Locality: "New York"; suggested to be "Hunter, Greene Co., New York" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 71.
Types: "Type(s)" probably in CMNH.
- = ‡"virginiensis" W. H. Edwards, 1881
Papilio 1(6): 95-98.
Original Combination: *Pieris Napi Oleracea Hyemalis* aberr. *virginiensis*
Type Locality: "New York"; suggested to be "Hunter, Greene Co., New York" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 71.
Types: "Type(s)" probably in CMNH.
As a polynomial, this name is unavailable (Code Article 45.5).
‡"postoleracea" Eitschberger, [1984]
Herbipoliana 1(1): 263.
Original Combination: *Pieris oleracea oleracea* gen. aest. et gen. aut. *postoleracea*
Type Locality: Not stated.
Types: No type(s) designated
As a quadrinomial, this name is unavailable (Code Article 45.5); it is also a *nomen nudum*.
- b. ***Pieris oleracea frigida*** Scudder, 1861
Proc. Boston Nat. Hist. Soc. 8: 181-182.
Original Combination: *Pieris frigida*
Type Locality: "Caribou Island, Straits of Belle Isle"; lectotype from "Labrador." [Newfoundland and Labrador]
Types: Lectotype (#16596) in MCZ, designated by Eitschberger [1984], Herbipoliana 1(1): 264-265, pl. 485, fig. 3 ♀ D, 4 ♀ V.
- = *borealis* (Grote, 1873)
Bull. Buff. Nat. Hist. Soc. 1(4): 185.
Original Combination: *Ganoris oleracea* var. *borealis*
Type Locality: "Island of Anticosti, which lies in the Gulf of St. Lawrence, between latitudes 49° and 50°" implied from the introduction. [Quebec]
Types: Location of type(s) not known, possibly in USNM.
- = *acadica* W. H. Edwards, 1881
Papilio 1(6): 86-87, no. 1, 98, no. 1 of no. 3, 99, pl. 3, figs. 10 ♂ D&V, 11 ♀ D&V.
Original Combination: [*Pieris Bryoniae*] *Acadica*

Type Locality: "Southern Newfoundland"; defined as "base of Avalon Peninsula" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 104. [Newfoundland and Labrador]

Types: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 105, fig. 26 ♂ D&V.

= *ekisi* Eitschberger, [1984]

Herbipoliana 1(1): 272, 1(2): pl. 493, figs. 1 ♂ D, 2 ♂ V (holotype); 3-10 ♂&♀, D&V.

Original Combination: *Pieris oleracea ekisi*

Type Locality: "Ferryland, dem östlichen Punkt der Insel Neufundlands" [Newfoundland and Labrador]

Types: Holotype (#11883) in CMNH.

= ‡"pseudoleracea" Verity, [1908]

Rhop. Palaearctica: 146 [31 Jan 1908]; pl. 32, fig. 38 ♂ V [30 Nov 1908]; ind. syst.: xxviii [31 Oct 1911].

Original Combination: [*Pieris napi*]

var. *frigida* forme *pseudoleracea*

Type Locality: "Labrador" implied from the legend to plate 32. [Newfoundland and Labrador]

Types: "Holotype" in USNM.

As a quadrinomial, this name is unavailable (Code Article 45.5).

‡"vivida" Verity, [1911]

Rhop. Palaearctica: 334; ind. syst.: xxviii.

Original Combination: [*Pieris napi*]

var. *frigida* [forme] *vivida*

Type Locality: Not stated; "Labrador" implied from the text.

Types: Location of "type(s)" not known.

This name was proposed without a description or indication; a *nomen nudum*.

‡"anteacadica" Eitschberger, [1984]

Herbipoliana 1(1): 336.

Original Combination: *Pieris acadica*

acadica gen. vern. *anteacadica*

Type Locality: Not stated.

Types: No type(s) designated.

As a quadrinomial, this name is unavailable (Code Article 45.5); it is also a *nomen nudum*.

396. *Pieris virginiensis* W. H. Edwards, 1870

a. *Pieris virginiensis virginiensis* W. H. Edwards, 1870

Trans. Am. Entomol. Soc. 3(1): 10, 13-14, no. 5; figured by W. H. Edwards (1871), Butterflies N. Am. [1](8): pl. *Pieris* 2, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V, and (1881), Papilio 1(6): pl. 3, figs. 17 ♀ D, 18 ♂ D&V.

Original Combination: *Pieris Virginiensis*

Type Locality: "Kanawha district...London, Ontario"; defined as "Coalburgh, W. Va." by W. H. Edwards (1881), Papilio 1(6): 95-96; neotype from "the Kanawha River valley in the vicinity of Coalburgh, West Virginia." [Kanawha County, West Virginia]

Types: Neotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 101, fig. 24 ♂

D&V; figured by W. Holland (1898), Butterfly Book: pl. 34, fig. 14 ♂ D.

- b. **Pieris virginiensis hyatti** Eitschberger, [1984]
Herbipoliana 1(1): 358; 1(2): pl. 529, figs. 15 ♂ D, 16 ♂ V (holotype); 17 ♀ D, 18 ♀ V, 19-36, pl. 531, figs. 1-11; unassociated figs. 542, 1023-1030 ♂ genitalia, 1589-1591 ♀ genitalia.

Original Combination: *Pieris virginiensis hyatti*

Type Locality: "Canada, Ontario, Halton Co. Forest, Campbellville"

Types: Holotype in MGCL.

rapae group Robbins and Henson, 1986
J. Lepid. Soc. 40(2): 86.

397. **Pieris rapae** (Linnaeus, 1758)

- a. **Pieris rapae rapae** (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 468, no. 59; cited Linnaeus (1746)
Fauna Svecica: 243, no. 798, and many other works.

Original Combination: *P[apilio]. D[anaus candidus] Rapae*

Type Locality: Not stated; defined as "Sweden" by Verity (1947), Farfalle diurn. d'Italia 3: 232, based on the reference to Fauna Svecica.

Types: Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 377.

Most of the Palaearctic synonymy is not included.

- = *metra* (Stephens, 1827)

Illustr. Brit. Entomol., Haustellata 1: 19-20 (1827); 146-147 (1828).

Original Combination: *Pontia Metra*

Type Locality: "at Hertford...at Ripley" [England]

Types: Probably no type(s) designated.

- = *minor* (Costa, [1836])

Fauna Regno Napoli: [32], [311], pl. (Lepid. Diurn) 3, figs. 3, 4.

Original Combination: *Pontia Rapae* var. *Minor*

Type Locality: "Napoli" [Italy]

Types: Location of type(s) not known.

- = *immaculata* de Selys-Longchamps, 1857

Annls. Soc. Entomol. Belg. 1: 5, no. 5.

Original Combination: [*Pieris Rapae*]

Var. *Immaculata*

Type Locality: "Belgique" implied from the title of the paper.

Types: Syntypes possibly in Fologne collection.

- = *yreka* Reakirt, 1866

Proc. Acad. Nat. Sci. Philad. 18(3): 238, no. 1.

Original Combination: *Pieris yreka*

Type Locality: "California"; L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 72, suggested that the syntype was a French specimen supplied by Lorquin with a false label.

Types: Syntype(s) in FMNH; figured by Strecker (1874), Lepid. Rhop. Het. (8): pl. 8, figs. 6 ♂ D, 7 ♂ D&V.

If the label data on the syntype are correct, then this species may have been introduced to North America on more than one occasion.

- = *novangliae* (Scudder, 1872)

Can. Entomol. 4(4): 79; figured by Scudder (1889),
Butterflies E. U. S. & Can. 3(8): pl. 7, fig. 11 ♂ D&V.

Original Combination: [*Ganoris rapae*]

variety *novangliae*

Type Locality: "Shelbourne [sic!], N. H....Waterville,
Me." [Shelburne, Coos County, New Hampshire, and
Kennebec County, Maine]

Types: A supposed "syntype" (#16600) from
"Shelburne, N. H." in MCZ.

= ‡*immaculata* Cockerell, 1889
Entomol. 22(311): 99; cited Newman [1871], Brit.
Butterflies: 161.

Original Combination: *Pieris rapae immaculata*

Type Locality: Not stated.

Types: Location of type(s) not known.
Preoccupied by *Pieris rapae immaculata* de
Selys-Longchamps, 1857, Annls. Soc. Entomol.
Belg. 1: 5, no. 5.

= ‡"immaculata" Skinner & E. Aaron, 1889
Can. Entomol. 21(7): 128-129.

Original Combination: *Pieris rapae*,
var. *immaculata*

Type Locality: "vicinity of Philadelphia"
[Philadelphia County, Pennsylvania]

Types: "Holotype" (#902) in CMNH.

The text clearly indicates that this taxon was
described as an individual variant.

= ‡"aestivus" Verity, 1913
J. Linn. Soc. Lond., Zool. 32(215): 177-178.

Original Combination: [*Pieris rapae* summer
brood] *aestivus*

Type Locality: Not stated.

Types: No types designated.

Probably a *nomen nudum*.

Genus *Pontia* [Fabricius], 1807

In: Illiger, Mag. f. Insektenk. 6: 283, no. 23. Type-species: *Papilio daplidice* Linnaeus, 1758, Syst. Nat.
(ed. 10) 1: 468, no. 62, by designation of J. Curtis (1824), Brit. Entomol. 1(12): pl. 48, [1].

I.C.Z.N. *Opinion* 278 placed this name on the *Official List of Generic Names in Zoology* as name no.
704.

= ‡*Mancipium* Hübner, [1807]

Samml. exot. Schmett. 1: pl. [141]. Type-species: *Mancipium*
hellica Hübner, [1807], Samml. exot. Schmett. 1: pl. [141],
figs. 1, 2, 3, 4, by monotypy (= *Papilio helice* Linnaeus, 1767,
Syst. Nat. (ed. 12) 1(2): 760, no. 78, incorrect subsequent
spelling). I.C.Z.N. *Opinion* 137 suppressed this name;
I.C.Z.N. *Direction* 4 placed this name on the *Official Index of*
Rejected and Invalid Generic Names in Zoology as name no.
214.

= ‡*Pontia* [Illiger], 1807

Allg. Lit.-Zeit. 2(303): 1180. Type-species: *Papilio*
helice Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 760, no. 78,
by monotypy. I.C.Z.N. *Opinion* 232 suppressed this name
and placed it on the *Official Index of Rejected and Invalid*
Generic names in Zoology as name no. 46.

= *Synchlœ* Hübner, 1818

Zutr. Samml. exot. Schmett. 1: 26, no. 76. Type-species: *Papilio*
callidice Hübner, [1800], Samml. europ. Schmett. 1: pl. 81, figs.

- 408, 409, pl. 108, figs. 551, 552, by designation of Butler (1870), Cist. Entomol. 1(3): 51.
- = ‡*Mancipium* Stephens, 1827
 Ill. Brit. Entomol., Haustellata 1: 22. Type-species: *Papilio daplidice* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 468, no. 62, by designation of Koçak (1982), Priamus 1(4): 155. Preoccupied by *Mancipium* Hübner, [1807], and a junior objective synonym of *Pontia* [Fabricius], 1807.
- = ‡*Parapieris* de Nicéville, 1897
 J. asiat. Soc. Bengal, Pt. II 66(3): 563. Type-species: *Papilio callidice* Hübner, [1800], Samml. europ. Schmett.: pl. 81, figs. 408, 409, pl. 108, figs. 551, 552, by original designation. A junior objective synonym of *Synchlœ* Hübner, [1818].
- = ‡*Leucochlœ* Röber, 1907
 In: Seitz, Grossschmett. Erde 1(12): 49. Type-species: *Papilio daplidice* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 468, no. 62, by designation of Klotz (1933), Entomol. Am. (n.s.) 12(4): 212. A junior objective synonym of *Pontia* [Fabricius], 1807.
- = *Pontieuchloia* Verity, 1929
 Annls. Soc. Entomol. Fr. 98(3): 347. Type-species: *Papilio chloridice* Hübner, [1813], Samml. europ. Schmett. 1: pl. 141, figs. 712-715, by monotypy.
- 398. *Pontia beckerii*** (W. H. Edwards, 1871)
 Butterflies N. Am. [1](8): [30]-[31], pl. Neophasia Pieris 1, figs. 4 ♂ D, 5 ♂ V, 6 ♀ D, 7 ♀ V; also figured by W. H. Edwards (1883), 2(11): pl. Pieris I, figs. 8 ♂ D, 9 ♂ V.
Original Combination: *Pieris beckerii*
Type Locality: "Virginia City, Nevada" [Storey County]
Types: Lectotype in AMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 115, fig. 29 ♂ D&V.
 This taxon has been considered a subspecies of *Pontia chloridice* (Hübner, [1813]), Samml. europ. Schmett.: pl. 141, figs. 712-715, by Higgins and N. Riley (1970), Field Guide Butterflies Brit. Europ.: 47, Higgins (1975), Class. Europ. Butterflies: 75, and Scott (1986), Butterflies N. Am.: 220, no. 79. However, Coutsis and Tolman (1996), Linn. Belg. 15(7): 271-272, identified larval characters that support the species-level separation of *P. chloridice* and *P. beckerii*.
 = ‡"pseudochloridice" (McDunnough, 1928)
 Can. Entomol. 60(11): 266-267.
Original Combination: [*Pieris beckerii*] [early spring generation] *pseudochloridice*
Type Locality: "Oliver, B. C."
Types: "Holotype" (#2861) in CNC.
 = ‡"gunderi" (Ingham, 1933)
 Pan-Pac. Entomol. 9(2): 75.
Original Combination: *Ascia beckerii gunderi* new tr. f.
Type Locality: "Bouquet Canyon, Los Angeles County, Calif."
Types: "Holotype" in CAS.
- 399. *Pontia protodice*** (Boisduval & Le Conte, [1830])
 Hist. Lépid. Amér. sept. 1(5): 45-46, (6): pl. 17, figs. 1 ♀ D, 2 ♂ D, 3 ♀ V.
Original Combination: *P[ieris]. Protodice*

- Type Locality:** “aux environs de New-York...dans le Connecticut”; suggested to be “New York” by Calhoun (2004), J. Lepid. Soc. 58(3): 155.
Types: A “type” supposedly in USNM, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such Boisduval “types.”
 = *nasturtii* (W. H. Edwards, 1864)
 Proc. Entomol. Soc. Philad. 2(4): 501, no. 1.
Original Combination: *Pieris Nasturtii* Boisduval, *in lit.*
Type Locality: “San Francisco” [San Francisco County, California]
Types: Type(s) lost.
- = *vernalis* (W. H. Edwards, 1864)
 Proc. Entomol. Soc. Philad. 2(4): 501-502, no. 2; figured by W. H. Edwards (1871), Butterflies N. Am. [1](8): pl. Pieris 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Pieris Vernalis*
Type Locality: “Red Bank, New Jersey...the Rocky Mountains”
Types: Type(s) lost.
400. **Pontia occidentalis** (Reakirt, 1866)
 Shapiro (1976), J. Lepid. Soc. 30(4): 289-300, demonstrated species-level distinction between *P. occidentalis* and *P. protodice*.
- a. **Pontia occidentalis occidentalis** (Reakirt, 1866)
 Proc. Entomol. Soc. Philad. 6(1): 133-134.
Original Combination: *Pieris Occidentalis*
Type Locality: “Rocky Mountains, Colorado Territory; California”; defined as “vic. Empire Creek, Clear Creek Co., Colorado” by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 70-71.
Types: Syntypes in FMNH.
 = *calyce* (W. H. Edwards, 1870)
 Trans. Am. Entomol. Soc. 3(2): 189, no. 1.
Original Combination: *Pieris Calyce*
Type Locality: “Nevada”; defined as “vicinity of Virginia City, Nevada” by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 108. [Storey County]
Types: Holotype in CMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 67, fig. 26 ♂ D, and F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): fig. 27 ♂ D&V.
- b. **Pontia occidentalis nelsoni** (W. H. Edwards, 1883)
 Butterflies N. Am. 2(11): [71]-[72], pl. Pieris 1, figs. 6 ♂ D, 7 ♂ V.
Original Combination: *Pieris Nelsoni*
Type Locality: “St. Michael's Alaska”
Types: Holotype in CMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 67, fig. 29 ♂ D, and F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): fig. 28 ♂ D&V.
 Chew and Watt (2006), Biol. J. Linn. Soc. 88(3): 423, 425, suggested that *nelsoni* may be a species-level taxon.
401. **Pontia sisymbrii** (Boisduval, 1852)
 a. **Pontia sisymbrii sisymbrii** (Boisduval, 1852)
 Annls. Soc. Entomol. Fr. (2)10(2): 284, no. 8.
Original Combination: *Pieris sisymbrii*

Type Locality: "Californie" implied from the title of paper; listed as "dans les plaines du Sacramento" by Boisdual (1869), *Annls. Soc. Entomol. Belg.* 12: 40, no. 10; defined as "1 mile NE of Storrie on Hwy 70, North Fork Feather River Canyon, 2,000' elevation, Plumas County, California" by J. Emmel *et al.* (1998), *Syst. W. N. Am. Butterflies* (2): 8.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), *Syst. W. N. Am. Butterflies* (2): 8, figs. 3 ♀ D, 4 ♀ V.

= ‡"flava" (W. H. Edwards, 1883) *Butterflies N. Am.* 2(11): [68], pl. *Pieris* 1, fig. 5 ♀ D.

Original Combination: [*Pieris sisymbrii*] var. *Flava*

Type Locality: "California" implied from the text.

Types: "Syntype" in CMNH, labelled from "California."

The text clearly indicates that this taxon was described as an individual variant.

- b. ***Pontia sisymbrii nigravenosa*** Austin & J. Emmel, 1998 *Syst. W. N. Am. Butterflies* (42): 505, figs. 19 ♂ D, 20 ♂ V (holotype); 21 ♀ D, 22 ♀ V.

Original Combination: *Pontia sisymbrii nigravenosa*

Type Locality: "Nevada: Clark County; Spring Mountains, 2 road miles north of Red Cloud Mine, 1830 m, T24S R58E S5 on USGS Goodsprings, Nev. 15' quadrangle"

Types: Holotype in MGCL.

- c. ***Pontia sisymbrii transversa*** R. Holland, 1995 *J. Lepid. Soc.* 49(2): 125-127, fig. 5 ♂ D, 5a ♂ V (holotype).

Original Combination: *Pontia sisymbrii transversa* R. Holland adopted *Ascia sisymbrii* gen.

vern *transversa* W. Barnes & Benjamin, 1926 to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= ‡"transversa" (W. Barnes & Benjamin, 1926) *Bull. South. Calif. Acad. Sci.* 25(3): 88, no. 33.

Original Combination: *Ascia sisymbrii* gen. vern *transversa*

Type Locality: "Paradise, Cochise County, Ariz.; Redington, Ariz."; holotype from "Paradise." [Arizona]

Types: "Holotype" in USNM.

- d. ***Pontia sisymbrii elivata*** (W. Barnes & Benjamin, 1926) *Bull. South. Calif. Acad. Sci.* 25(3): 88, no. 33a.

Original Combination: *Ascia sisymbrii* race *elivata*

Type Locality: "Glenwood Springs, Colo." [Garfield County, Colorado]

Types: Holotype USNM.

- e. ***Pontia sisymbrii nordini*** (K. Johnson, 1977) *J. Lepid. Soc.* 31(13): 167-169, figs. 1A ♂ D, 1B ♂ V (holotype); 1C ♀ D, 2D ♀ V, 2(2) ♂ genitalia.

Original Combination: *Pieris sisymbrii nordini*

Type Locality: "Monroe Canyon, Sioux Co., Nebraska"

Types: Holotype in AMNH.

- f. ***Pontia sisymbrii flavitincta*** (J. A. Comstock, 1924)

Bull. South. Calif. Acad. Sci. 23(1): 19-20, pl. 7, fig. 9 ♀
D (holotype).

Original Combination: *Pieris* [*sisymbrii*] *flavincta*

Type Locality: "Cranbrook, British Columbia"

Types: Holotype in LACM.

Supposedly proposed as a replacement name for *flava* W. H. Edwards, 1883, but the description, type locality, and type designation make this an available name.

g. *Pontia sisymbrii beringiensis* C. Guppy & Kondla, 2001

Butterflies B.C.: 145-146, figs. ♂ D&V (holotype), ♀ D&V.

Original Combination: *Pontia sisymbrii beringiensis*

Type Locality: "BC, Atlin, 9 km N on Atlin Rd at Ruffner Mine Rd."

Types: Holotype in BCPM.

Genus *Ascia* Scopoli, 1777

Intro. Hist. Nat.: 434, no. 175. Type-species: *Papilio monuste* Linnaeus, 1764, Mus. Lud. Ulr.: 237, no. 56, by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 61.

402. *Ascia monuste* (Linnaeus, 1764)

a. *Ascia monuste monuste* (Linnaeus, 1764)

Mus. Lud. Ulr. [1]: 237, no. 56.

Original

Combination: *P*[*apilio*] *D*[*anaus*]. *C*[*andidus*]. *Monuste*

Type Locality: "in Exteris terris"; stated to be "Barbaria" by Linnaeus (1767), Syst. Nat. (ed. 12) 1(2): 760, no. 80; listed as "America" by Fabricius (1775), Syst. Entomol.: 470, no. 117, citing Kleemann (1761), Beytr. Nat. Ins. 1: 31, pl. 3, fig. 3 ♂ D ("Westindianische"); further defined as "Surinam" by W. Comstock (1943), Am. Mus. Novit. (1229): 2.

Types: Type(s) apparently lost.

W. Comstock (1943), *ibid.*, discussed the identity of this taxon.

= ‡*heliades* (Billberg, 1820)

Enum. Ins. Mus. Billb.: 76; cited "eg. *Monuste* Fbr.", in reference to *Papilio monuste* Linnaeus, 1764.

Original Combination: [*Cepora*] *Heliades*

Proposed to replace *Papilio monuste* Linnaeus, 1764, Mus. Lud. Ulr. [1]: 237, no. 56, erroneously thought preoccupied. A junior objective synonym of *Papilio monuste*.

= *feronia* (Stephens, 1828)

Ill. Brit. Entomol., Haustellata: 149-150; cited Stephens (1829) Cat. Appendix, II.

Original Combination: *Po*[*ntia*]. *Feronia*

Type Locality: "Prise en Angleterre" inferred from Ernst (1779), Pap. Europ.: 209.

Types: Type(s) may be in BMNH.

= *albusta* (Sepp, [1851])

Surinaam. Vlinders [3](36): pl. 141.

Original Combination: *Papilio Albusta*

Type Locality: "Surinam" implied from the title of the work.

Types: Type(s) are lost.

- = *crameri* W. Holland, 1931
Ann. Carnegie Mus. 20(2): 256-257; cited *Papilio monusta* (*sensu* Cramer (1777), Uitl. Kapellen 2(12): pl. 141, fig. F).

Original Combination: *Ascia monuste* var. *crameri*

Type Locality: "Surinam" as given by Cramer for his figure.

Types: Holotype possibly in RMNH.

Calhoun (1997), Holarct. Lepid. 4(1): 25-26, thoroughly discusses this taxon and determines that the "type" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 67, fig. 17, was only a "typical" example, not a true type.

b. *Ascia monuste phileta* (Fabricius, 1775)

Syst. Entomol.: 471, no. 119.

Original

Combination: *P[apilio]*. *D[anaus]*. *C[andidus]*. *Phileta*

Type Locality: "America"; suggested to be "Florida" by W. Comstock (1943), Am. Mus. Novit. (1229): 3.

Types: Type(s) probably lost.

- = *cleomes* (Boisduval & Le Conte, [1830])
Hist. Lépid. Amér. sept. (5): 43-44; (6): pl. 16, figs. 1 ♂ D, 2 ♀ D, 3 ♀ V, 4 larva, 5 pupa.

Original Combination: *P[ieris]*. *Cleomes*

Type Locality: "Géorgie et la Virginie...dans la Floride"; suggested to be "Savannah, Chatham County, Georgia" by Calhoun (2004), J. Lepid. Soc. 58(3): 160.

Types: Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are presumed lost. A "type" in USNM is not consistent with the description of this taxon. Calhoun (2004), J. Lepid. Soc. 58(3): 156, 158-160, detailed this synonymy.

‡"nigra" Scott, 1981

Papilio (n.s.) 1: 3.

Original Combination: *Ascia monuste* female form *nigra*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

c. *Ascia monuste eubotea* (Godart, 1819)

In: Enc. méth. 9(Ins.)(1): (111), 144, no. 90.

Original Combination: *Pieris Eubotea*

Type Locality: Not stated; suggested to be "Antilles" by W. Comstock (1943), Am. Mus. Novit. (1229): 3.

Types: Location of type(s) not known.

The occurrence of this taxon in southern Florida was detailed by Calhoun (1997), Holarct. Lepid. 4(2): 44.

- = *evonima* (Boisduval, 1836)
Spec. gén. Lépid. 1: 493, no. 84.

Original Combination: *Pieris Evonima*

Type Locality: "Cuba"

Types: Syntype (#720241) in BMNH.

- = *vallei* (Boisduval, 1836)
Spec. gén. Lépid. 1: 494-495, no. 86.

Original Combination: *Pieris Vallei*

Type Locality: "Cuba"

Types: Location of type(s) not known.

= *joppe* (Boisduval, 1836)

Spec. gén. Lépid. 1: 495, no. 87.

Original Combination: *Pieris Joppe*

Type Locality: "Cuba"

Types: Syntype (#720243) in BMNH.

Genus **Ganyra** Billberg, 1820

Enum. Ins. Mus. Billberg: 76. Type-species: *Papilio amaryllis* Fabricius, 1793, Entomol. Syst. 3(1): 189-190, no. 586 (= *Pieris josephina* Godart, 1819, Ency. méth. 9(Ins.)(1): (115), 158, no. 136; homonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 178, no. 466.

*403. **Ganyra josephina** (Godart, 1819)

Ency. méth. 9(Ins.)(1): (115), 158, no. 136.

Original Combination: *Pieris Josephina*

Type Locality: Not stated; suggested to be "Hispaniola" by W. Comstock (1943), Am. Mus. Novit. (1229): 5; syntypes from "St. Domingo and Mexico," as documented by Grimshaw (1897), Trans. R. Soc. Edinburgh 39, part I(1): 6.

Types: Syntypes in MNHP and RSME.

a. **Ganyra josephina josepha** (Salvin & Godman, 1868)

Ann. Mag. Nat. Hist. (4)2(8): 150, no. 22.

Original Combination: *Pieris Josepha*

Type Locality: "Guatemala (valley of the Polochic) and Mexico (Oaxaca), Nicaragua"; lectotype from "Polochic, Guatemala."

Types: Lectotype (#720254) in BMNH, designated by Abadjiev (2006), Zootaxa 1143: 57, pl. 66, figs. 523 ♀ D, 524 ♀ V.

= *protasia* (Fruhstorfer, 1907)

Soc. Entomol. 22(18): 139.

Original Combination: [*Pieris*] *amaryllis protasia*

Type Locality: "Honduras...Nicaragua"; lectotype from "San Pedro Sula, Honduras."

Types: Lectotype (#720246) in BMNH, designated by Abadjiev (2006), Zootaxa 1143: 100, pl. 66, figs. 525 ♂ D, 526 ♂ V.

= ‡*gervasia* (Fruhstorfer, 1907)

Soc. Entomol. 22(18): 139.

Original Combination: [*Pieris amaryllis josepha*] ♀ forma *gervasia*

Type Locality: "Süd-Mexiko"

Types: "Syntype" (#720245) in BMNH.

404. **Ganyra howarthi** (Dixey, 1915)

Trans. Entomol. Soc. Lond. (4)1915(1)(1): 12-15, no. 6, pl. 2, figs. 7 ♂ D, 8 ♂ V, 9 ♀ D, 10 ♀ V.

Original Combination: *Pieris howarthi*

Type Locality: "sea-level, at Tembabichi Bay, Lower California, Lat. 26°5 N" [Baja California Sur, Mexico]

Types: Syntypes in UMO.

Bailowitz (1988), J. Res. Lepid. 26(1-4): 73-81, detailed the species-level status of this taxon.

= *kuschei* (Schaus, 1920)

Proc. U. S. Nat. Mus. 57(2307): 109-110.

Original Combination: *Pieris kuschei*

Type Locality: "Mazatlan, Mexico"; suggested to be "San Miguel, nr. Los Mochis, Sinaloa, Mexico" by Bailowitz (1988), J. Res. Lepid. 26: 73-81.

Types: Syntypes (#22398) in USNM; one figured by Abadjiev (2005), Zootaxa 1022, pl. 7, figs. 4 ♂ D, 5 ♂ V, 6 labels.

Beutelspacher (1986), An. Inst. Biol., Univ. Nac. Autón. Méx., ser. Zool. 57(2): 313, 314-315, figs. 21 ♂ D, 22 ♀ D, 27 ♂ V, 28 ♀ V, 29 ♂ genitalia, detailed this taxon.

Family **LYCAENIDAE** [Leach], [1815]

In: Brewster, Edin. Ency. 9: 129 (as "Lycaenida"). Type-genus: *Lycaena* [Fabricius], 1807, *in:* Illiger, Mag. f. Insektenk. 6: 285, no. 32.

Subfamily **Miletinae** Reuter, 1896

Acta Soc. Sci. fenn. 22(1): 551, 556 (as "Miletidi"). Type-genus: *Miletus* Hübner. [1819], Verz. bekannt. Schmett. (5): 71. The family-group name Miletinae (applied at various levels) has long been accepted as the proper name for this taxon, even though Gerydinae Doherty, 1886, J. asiat. Soc. Bengal 55, Pt. II(2): 110, 131, is senior (Code Article 35.5).

Tribe **Miletini** Reuter, 1896 (1886)

Subtribe **Spalgina** Toxopeus, 1929

Tijdschr. Entomol. 72(3/4): 218, II (as "Spalgiinae"). Type-genus: *Spalgis* Moore, 1879, Proc. Zool. Soc. Lond. 1879(1): 137.

Genus **Feniseca** Grote, 1869

Trans. Am. Entomol. Soc. 2(3): 308. Type-species: *Hesperia tarquinius* Fabricius, 1793, Entomol. Syst. 3(1): 319, no. 207, by original designation.

405. **Feniseca tarquinius** (Fabricius, 1793)

a. **Feniseca tarquinius tarquinius** (Fabricius, 1793)

Entomol. Syst. 3(1): 319, no. 207; cited Jones' Icones 6: pl. 45, fig. 4; figured by Donovan (1800), Epit. Ins. India: pl. [44], fig. 1 (a copy from Jones' Icones).

Original Combination: *H[esperia]. R[urales]. Tarquinius*

Type Locality: "Indiis"

Types: Type(s) probably lost.

= *crataegi* (Boisduval & Le Conte, [1835])
Hist. Lépid. Amér. sept. (13): pl. 37, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 larva, 5 pupa; (14): 128-129;
cited *Hesperia tarquinius* Fabricius, 1793, Entomol. Syst. 3(1): 319, no. 207, Donovan (1800), Epit. Ins. India: pl. [44], fig. 1, and *Erycina tarquinius* Godart, [1824], *in:* Ency. méth. 9(Ins.)(2): 580, no. 77.

Original Combination: *P[olyommatus] Crataegi*

Type Locality: "Géorgie"

Types: Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost.

= *porsenna* (Scudder, 1863)
Proc. Essex Inst. 3: 163-164, no. 12.

Original Combination: *Polyommatus Porsenna*

Type Locality: "Aroostook Co., Me....Norway, Me."
[Norway is in Oxford County, Maine]

Types: Type(s) may be in MCZ.

= ‡"suffusa" Dean, 1918
Lepidoptera 2(8): 60.

Original Combination: *Feniseca tarquinius* var. *suffusa*

Type Locality: "Meramec Highlands" [Above the Meremac River, St. Louis-Jefferson counties, Missouri]

Types: Location of "holotype" not known.

- b. ***Feniseca tarquinius novascotiae*** McDunnough, 1935
Can. Entomol. 67(7): 212.

Original Combination: [*Feniseca tarquinius*] *novascotiae*

Type Locality: "S. Milford, N. S." [Nova Scotia]

Types: Holotype (#3995) in CNC.

Layberry *et al.* (1998), Butterflies Can.: 119, did not recognize subspecies within *F. tarquinius*.

Subfamily **Lycaeninae** [Leach], [1815]

Tribe **Lycaenini** [Leach], [1815]

Genus **Lycaena** [Fabricius], 1807

In: Illiger Mag. f. Insektenk. 6: 285, no. 32. Type-species: *Papilio phlaeas* Linnaeus, 1761, Fauna Svecica (ed. 2): 285, no. 1078, by designation of J. Curtis (1824), Brit. Entomol. 1(3): pl. 12, [1]. American species in this genus were reviewed by Pratt and D. Wright (2003), Pan-Pac. Entomol. 78(4): 219-229.

Subgenus **Lycaena** [Fabricius], 1807

- = ‡*Lycia* Sodoffsky, 1837
Bull. Soc. Imp. Nat. Moscou 10(6): 81-82, no. 9. Type-species: *Papilio phlaeas* Linnaeus, 1761, Fauna Svecica (ed. 2): 285, no. 1078, as a replacement name. An unjustified emendation of *Lycaena*.
- = ‡*Migonitis* Sodovsky, 1837
Bull. Soc. Imp. Nat. Moscou 10(6): 82, 06, no. 9. Type-species: *Papilio phlaeas* Linnaeus, 1761, Fauna Svecica (ed. 2): 285, no. 1078, as a replacement name. Preoccupied by *Migonitis* Rafinesque, 1815, Analyse Nat.: 147.
- = ‡*Rumicia* Tutt, 1906
Entomol. Rec. & J. Var. 18(5): 131. Type-species: *Papilio phlaeas* Linnaeus, 1761, Fauna Svecica (ed. 2): 285, no. 1078, by original designation. A junior objective synonym of *Lycaena*.

- *406. ***Lycaena phlaeas*** (Linnaeus, 1761)
Fauna Svecica (ed. 2): 285, no. 1078; cited Linnaeus (1746), Fauna Svecica: 247, 248, no. 807, Merian (1730), Europ. Ins.: pl. 164, Petiver (1699), Mus. Petiver. Cent. Rar. Nat. Cont. (4/5): 34, no. 317, and Ray (1710), Hist. Ins.: 125, no. 20.
Original Combination: *P[apilio]*. *P[lebejus ruricola]*. *Phlaeas*
Type Locality: "in pratis Westmanniae" [Vestmanland, Sweden]
Types: Type(s) apparently lost, as noted by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 365.
= *eleus* (Fabricius, 1798)
Entomol. Syst. Suppl.: 430.
Original Combination: *H[esperia]*. *R[urales]*. *Eleus*
Type Locality: "Germania"
Types: Syntype in ZMUC.



- a. **Lycaena phlaeas hypophlaeas** (Boisduval, 1852)
 Annls. Soc. Entomol. Fr. (2)10(2): 291, no. 23.
Original Combination: *Polyommatus Hypophlaeas*
Type Locality: "Nord de la California"; suggested to be "the Sierra Nevada Mountains, California...could well have been the gold region in Tuolumne County" by Shields [1968], J. Res. Lepid. 6(1): 22; lectotype from "vicinity of Boston Massachusetts."
Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 12, figs. 33 ♂ D, 34 ♂ V.
 The identity of the lectotype dictates the current synonymy. Opler (1999), Field Guide W. Butterflies: 187, suggested that this taxon represents a human-assisted introduction to the New World, without supporting evidence.
- = *americana* T. Harris, 1862
 Ins. injur. Veget. (3rd ed.): 273-274, fig. 104 ♀ D&V.
Original Combination: *Lycaena Americana*
Type Locality: "Massachusetts" implied from the title of the first edition of the book.
Types: Syntypes in MCZ.
 This name was listed by d'Urban (1860), Can. Nat. Geol. 5(2): 91, no. 21, and (1860), Can. Nat. Geol. 5(4): 246, no. 1 (both times citing T. Harris), without a description or indication; *nomina nuda*.
- = ‡"fasciata" (Strecker, 1878)
 Butterflies Moths N. Am., Comp. Syn. Cat.: 101, no. 158a.
Original Combination: [*Chrysophanus Phlaeas* var. *Americana*] ab. a. ♀ *Fasciata*
Type Locality: "Florida" apparently in error.
Types: "Holotype" in FMNH; "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 64, fig. 45 ♀ D.
- = ‡"fulliolus" (Hulst, 1886)
 Entomol. Am. 2(9): 182.
Original Combination: *Chrysophanus americanus* ab. *fulliolus*
Type Locality: Not stated; "holotype" from "Long Island" recorded by Ottolengui (1895), Entomol. News 6(7): 217. [New York]
Types: "Holotype" in USNM.
- = ‡"obliterata" (Scudder, 1889)
 Butterflies E. U. S. & Can. 2(7): 1001-1002; cited a specimen figured by Maynard (1886), Butterflies N. Engl.: pl. 5, figs. 52, 52a.
Original Combination: *H[eodes]. h[ypophlaeas]*.
 [ab.] *obliterata*
Type Locality: "New England" implied from the title of Maynard's book.
Types: "Holotype" probably lost, possibly in MCZ.
- = ‡"adrienne" (Maynard, 1891)
 Manual N. Am. Butterflies: 153, no. 395b.
Original Combination: *Chrysophanus phlaeas adrienne*

Type Locality: "Eastern Massachusetts"

Types: Location of "holotype" not known, possibly in MCZ.

The text clearly indicates that this taxon was described as an individual variant.

= ‡"caeca" (Reiff, 1913)

Entomol. News 24(7): 306, pl. 10, figs. 3 ♂ D, 4 ♂ V ("holotype").

Original Combination: *Heodes phlaeas* f. nov. *caeca*

Type Locality: "West Roxbury, Mass." [Suffolk County, Massachusetts]

Types: "Holotype" probably in MCZ.

= ‡"octomaculata" (Dean, 1918)

Lepidoptera 2(8): 60.

Original Combination: *Chrysophanus hypophlaeas* var. *octomaculata*

Type Locality: "the southwestern portion of the city" [St. Louis, St. Louis County, Missouri]

Types: Location of "holotype" not known.

= ‡"banksi" (F. Watson & W. Comstock, 1920)

Bull. Am. Mus. Nat. Hist. 42(10): 454-455.

Original Combination: *Heodes hypophlaeas* *hypophlaeas* ab. *banksi*

Type Locality: "Lexington, Massachusetts" [Middlesex County]

Types: "Holotype" (#15956) in MCZ.

= ‡"fulvus" (Rummel, 1929)

Bull. Brooklyn Entomol. Soc. 23(5): 268.

Original Combination: *Heodes hypophlaeas* ab. *fulvus*

Type Locality: "Green Village, N. J....Old Bridge, N. J." [Green Village, Morris County; Old Bridge, Middlesex County, New Jersey]

Types: "Holotype" in AMNH.

= ‡"neui" (Rummel, 1929)

Bull. Brooklyn Entomol. Soc. 23(5): 268.

Original Combination: *Heodes hypophlaeas* ab. *neui*

Type Locality: "Hillside, N. J." [Union County, New Jersey]

Types: "Holotype" in AMNH.

‡"bacchus" Scudder, 1889

Butterflies E. U. S. & Can. 2(7): 998.

Original Combination: [*Heodes hypophlaeas*] = *Lycaena bacchus* Harr. manuscript

A manuscript name credited to T. Harris, listed in the synonymy of *americana* without description or indication; a *nomen nudum*.

b. *Lycaena phlaeas feildeni* (M'Lachlan, 1878)

J. Linn. Soc. Lond., Zool. 14(74): 111.

Original Combination: *Chrysophanus phloeas* [sic!] *Feildeni*

Type Locality: "lat. 81° 41' N"; holotype from "Grinnell Land, W. side of Smith Sound 81°45' N," which probably refers to Smith Sound on SE Ellesmere Island. [Nunavut]

Types: Holotype in BMNH.

This name is often misspelled "*fieldeni*."



- c. **Lycaena phlaeas arethusa** (Wolley-Dod, 1907)
Can. Entomol. 39(5): 169-170.
Original Combination: *Chrysophanus arethusa*
Type Locality: "the foothills...Lineham's lower log camp, south fork of Sheep Creek...about thirty-five miles south-west of Calgary...Alberta...near the spruce woods about ten or fifteen miles nearer Calgary"; Kohler (2007), Tax. Rep. Int. Lepid. Surv. 7(1): 9, defined this as "the head of Fish Creek and the south fork of Sheep Creek, Alberta."
Types: Syntypes in USNM and CNC.
- d. **Lycaena phlaeas weberi** Kohler, 2007
Tax. Rep. Int. Lepid. Surv. 7(1): 10-12, figs. 37 ♂ D, 38 ♂ (holotype), 39 ♀ D, 40 ♀ V, 47.
Original Combination: *Lycaena phlaeas weberi*
Type Locality: "Montana: Liberty County: north slope of Mount Royal, East Butte, Sweet Grass Hills, from the summit (6914') down slope (north) to the saddle (6300') between Mount Royal and Mount Brown"
Types: Holotype in BYU.
- e. **Lycaena phlaeas arctodon** Ferris, 1974
Bull. Allyn Mus. (18): 4-5, figs. 17 ♂ D&V (holotype), 18 ♀ D&V.
Original Combination: *Lycaena phlaeas arctodon*
Type Locality: "E side Beartooth Pass, Custer NF, Carbon Co., Mont., 10,300'" [Montana]
Types: Holotype in MGCL.
- f. **Lycaena phlaeas shields** Kemal & Koçak, 2007
Centre Entomol. Stud. Ankara. Misc. Pap. (135): 7.
Original Combination: *Lycaena phlaeas shields*
Proposed as a replacement name for *Lycaena phlaeas alpestris* J. Emmel & Pratt, 1998, preoccupied, with the same data (Code Article 60.3).
= ‡*alpestris* J. Emmel & Pratt, 1998
Syst. W. N. Am. Butterflies (52): 662, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Lycaena phlaeas alpestris*
Type Locality: "California: Mono County; north slope of Mt. Dana...11,200-11,800"
Types: Holotype in LACM.
Preoccupied by *Lycaena alpestris* Freyer, 1851, Neuer Beitr. Schmett. Abbild. Natur. 6(98): 162, pl. 583, figs 3, 4.
- 407. **Lycaena cupreus** (W. H. Edwards, 1870)
 - a. **Lycaena cupreus lapidicola** J. Emmel & Pratt, 1998
Syst. W. N. Am. Butterflies (52): 663-664, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.
Original Combination: *Lycaena cuprea lapidicola*
Type Locality: "California: Mono County; Tioga Pass"
Types: Holotype in LACM.
= ‡"maculinita" (Gunder, 1926)
Entomol. News 37(1): 8, no. 11, pl. 1, fig. 11 ♀ D ("holotype").
Original Combination: *Heodes cupreus* ab. ♀ *maculinita*
Type Locality: "Mammoth, Mono County, California"

Types: "Holotype" in AMNH; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 52, fig. 16 ♀ D.

- b. **Lycaena cupreus cupreus** (W. H. Edwards, 1870)
Trans. Am. Entomol. Soc. 3(1): 10, 20-21, no. 15; figured by W. H. Edwards (1875), Butterflies N. Am. 2(2): pl. Chrysophanus 1, figs. 4 ♂ D, 5 ♂ V, 6 ♀ D, 7 ♀ V.

Original Combination: *Chrysophanus Cupreus*

Type Locality: "Oregon"; suggested to be "mountains in the south central part of Oregon" by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 175; defined as "Crane Creek, 3 miles south of Lakeview, Lake County Oregon" by J. Emmel and Pratt (1998), Syst. W. N. Am. Butterflies (52): 663.

Types: Lectotype in CMNH, designated by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 176, fig. 6 ♂ D&V; paralectotype figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 64, fig. 40 ♀ D.
Species-genus gender conformation is *cuprea*.

= *artemisia* Scott, 1981
Papilio (n.s.) 1: 6-7.

Original Combination: *Lycaena cupreus artemisia*

Type Locality: "The Potholes, Teton Co., Wyo." [Wyoming]

Types: Holotype in LACM.

This synonymy was implied by J. Emmel and Pratt (1998), Syst. W. N. Am. Butterflies (52): 663, and discussed by A. Warren (2005), Butterflies Ore.: 98.

- c. **Lycaena cupreus henryae** (Cadbury, 1937)
Proc. Acad. Nat. Sci. Philad. 89: 409-410, pl. 16, fig. 9 ♀ D.

Original Combination: *Chrysophanus snowi henryae* new race

Type Locality: "Caribou Pass, alt. 5200 ft." [British Columbia]

Types: Syntype (#7779) in CMNH.

Layberry *et al.* (1998), Butterflies Can.: 121, considered this name synonymous with *snowi*, but C. Guppy and J. Shepard (2001), Butterflies B. C.: 190, recognized it as a subspecies-level taxon.

= ♀ "mcdunnoughi" Gunder, 1927
Can. Entomol. 59(12): 284, no. 12, pl. A, fig. 12 ♀ D ("holotype").

Original

Combination: *Lycaena (Heodes) snowi* tr. f. *mcdunnoughi*

Type Locality: "Laggan, Alta., Can." [Alberta]

Types: "Holotype" in CNC.

This was spelled "macdunnoughi" by dos Passos (1964), Mem. Lepid. Soc. (1): 61; an unjustified emendation.

- d. **Lycaena cupreus snowi** (W. H. Edwards, [1881])
Trans. Kansas Acad. Sci. 7: 69-70.

Original Combination: *C[hrysophanus]. Snowi*

Type Locality: "above timber line on Gray's Peak, Colorado" [Summit and Clear Creek counties]

Types: Lectotype in CMNH, designated by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 178, fig. 7 ♂ D&V.

Subgenus **Tharsalea** Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 125, no. 29. Type-species: *Polyommatus arota* Boisduval, 1852, Annls. Soc. Entomol. Fr. (2)10(2): 293-294, no. 27, by original designation.

408. **Lycaena arota** (Boisduval, 1852)
- a. **Lycaena arota arota** (Boisduval, 1852)
Annls. Soc. Entomol. Fr. (2)10(2): 293-294, no. 27;
figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl.
236, fig. 1933 ♂ D&V, 1934 ♀ D&V.
Original Combination: *Polyommatus arota*
Type Locality: "Montagnes de la Juba"; suggested to be
"Sierra Nevada at lower elevations, in the old mining
region" by Tilden (1955), Bull. South. Calif. Acad. Sci.
54(2): 68; defined as "Highway 70 at Soda Creek, E.
Branch of N. Fork Feather River Canyon, 2500' elev.,
Plumas County, California" by J. Emmel *et al.* (1998),
Syst. W. N. Am. Butterflies (2): 13.
Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 13, figs. 45 ♂
D, 46 ♂ V.
- b. **Lycaena arota virginiensis** (W. H. Edwards, 1870)
Trans. Am. Entomol. Soc. 3(1): 10, 21, no. 17.
Original Combination: *Chrysophanus Virginiensis*
Type Locality: "Virginia City, Nevada" [Storey County]
Types: Neotype (#7015) in AMNH, designated by F.
Brown (1969), Trans. Am. Entomol. Soc. 95(1): 164, fig.
1 ♂ D&V.
- c. **Lycaena arota nubila** (J. A. Comstock, 1926)
Bull. South. Calif. Acad. Sci. 25(1): 34; figured by J. A.
Comstock (1927), Butterflies Calif.: pl. 51, fig. 2 ♂ D.
Original Combination: *Tharsalea arota* r[ace]. *nubila*
Type Locality: "Griffith Park, Los Angeles, California"
[Los Angeles County]
Types: Holotype in LACM.
- d. **Lycaena arota schellbachi** Tilden, 1955
Bull. South. Calif. Acad. Sci. 54(2): 72-74, pl. 24, fig. 4 ♂
V (holotype).
Original Combination: *Lycaena (Tharsalea) arota*
schellbachi
Type Locality: "North Rim, Grand Canyon National
Park...Bright Angel Trail, Grand Canyon" [Coconino
County, Arizona]
Types: Holotype in USNM.

Subgenus **Hermelycaena** L. Miller & F. Brown, 1979

Bull. Allyn Mus. (51): 22. Type-species: *Chrysophanus hermes* W. H. Edwards, 1870, Trans. Am. Entomol. Soc. 3(1): 21, no. 16, by original designation.

409. **Lycaena hermes** (W. H. Edwards, 1870)
Trans. Am. Entomol. Soc. 3(1): 10, 21, no. 16.
Original Combination: *Chrysophanus Hermes*
Type Locality: "California"; defined as "vicinity of San Diego,
San Diego Co., California" by F. Brown (1969), Trans. Am.
Entomol. Soc. 95(1): 165; neotype from "S. Diego."

Types: Neotype in CMNH, designated by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 166, fig. 2 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 64, fig. 50 ♂ D.

= *delsud* (W. G. Wright, 1905) (emended)
Butterflies W. Coast: 62, no. 347; 215, no. 347, pl. 28, figs. 347, 347b ♂ D&V (holotype).

Original Combination: [*Chrysophanus*] *Del Sud*; *Chrysophanus Del-Sud* n. s.

Type Locality: "San Diego County, California" "San Diego, Cal."

Types: Holotype (#4317) in CAS.



Subgenus **Chalceria** Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 125, no. 30. Type-species: *Chrysophanus rubidus* Behr, 1866, Proc. Entomol. Soc. Philad. 6(2): 208, by original designation. Pratt *et al.* (1993), J. Res. Lepid. 30(3/4): 175-195, discussed this synonymy, but did not establish priority of *Chalceria* over *Gaeides*. C. Guppy and J. Shepard (2001), Butterflies B. C.: 188, were apparently the first revisers.

= *Gaeides* Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 126, no. 31. Type-species: *Chrysophanus dione* Scudder, 1868, Proc. Boston Soc. Nat. Hist. 11: 401, by original designation.

410. **Lycaena dione** (Scudder, 1868)

Proc. Boston Soc. Nat. Hist. 11: 401.

Original Combination: *Chrysophanus Dione*

Type Locality: "Iowa"; defined as "Denison and New Jefferson, Iowa" by Scudder [1870], Trans. Chicago Acad. Sci. 1(2): 330. [Denison, Crawford County; Jefferson, Greene County]

Types: Syntypes probably in MCZ.

Layberry *et al.* (1998), Butterflies Can.: 121-122, and Opler (1999), Field Guide W. Butterflies: 189-190, treated *dione* as a species-level taxon.

= ‡"gibboni" Gunder, 1927

Can. Entomol. 59(12): 284, no. 13, pl. A, fig. 13 ♂ V ("holotype").

Original Combination: *Lycaena (Dione) dione* tr. f. *gibboni*

Type Locality: "Miniota, Man., Can." [Manitoba]

Types: "Holotype" in CNC.

411. **Lycaena editha** (Mead, 1878)

Oliver & Shapiro (2007), Molec. Ecol. 16(20): 4308–4320, establish that *Lycaena editha* and *L. xanthoides* are distinct species.

a. **Lycaena editha editha** (Mead, 1878)

Can. Entomol. 10(10): 198-199.

Original Combination: *Chrysophanus Editha*

Type Locality: "the borders of Lake Tahoe, near Carnelian Bay" [Placer County, California]

Types: Syntypes in FMNH; figured by W. Holland (1898), Butterfly Book: pl. 28, figs. 26 ♂ D, 27 ♀ D.

= ‡"vanduzeei" Gunder, 1927

Entomol. News 38(5): 133, no. 1, pl. 2, fig. 1 ♀ D ("holotype").

Original Combination: *Lycaena editha vanduzeei* ♀ nov. tr. form

- Type Locality:** "Deer Park, Placer County, California"
Types: "Holotype" in CAS.
- b. ***Lycaena editha pseudonexa*** J. Emmel & Pratt, 1998
 Syst. W. N. Am. Butterflies (52): 675-677, figs. 45 ♂ D, 46 ♂ V (holotype); 47 ♀ D, 48 ♀ V.
Original Combination: *Lycaena editha pseudonexa*
Type Locality: "California: Shasta County; Railroad Park, Dunsmuir"
Types: Holotype in LACM.
- c. ***Lycaena editha obscuramaculata*** Austin, 1989
 J. Res. Lepid. 27(3/4): 266.
Original Combination: *Lycaena editha obscuramaculata*
 Proposed to replace *Lycaena editha nevadensis* Austin, 1984, preoccupied, with the same data (Code Article 60.3).
 = ‡*nevadensis* Austin, 1984
 J. Res. Lepid. 23(1): 83, 85, figs. 1 top left ♂ D (holotype), top right ♀ D, 2 top left ♂ V (holotype), top right ♀ V.
Original Combination: *Lycaena editha nevadensis*
Type Locality: "Nevada: Elko County; Jarbidge Mountains, Jarbidge Canyon between Pine Creek and Gorge Gulch, 6600', T46N, R9E, S33...about 4 km south of the town of Jarbidge on the floor of a narrow, steep-sided canyon"
Types: Holotype in MGCL.
 Preoccupied by *Lycaena nevadensis* Oberthür, 1896, Étud. Entomol. 20: pl. 4, fig. 54.
- d. ***Lycaena editha vurali*** Koçak, 1984
 Priamus 3(3): 95.
Original Combination: *Lycaena editha vurali*
 Proposed to replace *Lycaena editha montana* W. D. Field, 1936, preoccupied, with the same data (Code Article 60.3).
 = ‡*montana* W. D. Field, 1936
 Entomol. News 47(5): 122.
Original Combination: *Lycaena editha* new race *montana*
Type Locality: "Broadwater County, Montana"
Types: Holotype in USNM.
 Preoccupied by *Lycaena semiargus montana* Meyer-Dur, 1851, Verz. Schmett. Schwiez. 1, Tagfalter: 60.
 = ‡"*meadi*" W. D. Field, 1936
 J. Entomol. & Zool. 28(2): 25.
Original Combination: *Lycaena editha* race *montana* female f. *meadi*
Type Locality: "Teton Mts., Wyo." [Teton County, Wyoming]
Types: "Holotype" in USNM.
412. ***Lycaena xanthoides*** (Boisduval, 1852)
- a. ***Lycaena xanthoides nigromaculata*** J. Emmel & Pratt, 1998
 Syst. W. N. Am. Butterflies (52): 674, figs. 41 ♂ D, 42 V ♂ V (holotype); 43 ♀ D, 44 ♀ V.



Original Combination: *Lycaena xanthoides nigromaculata*

Type Locality: "California: Colusa County; junction of Highway 45 and Highway 20, west of Meridian"

Types: Holotype in LACM.

- b. **Lycaena xanthoides xanthoides** (Boisduval, 1852)
Annls. Soc. Entomol. Fr. (2)10(2): 292-293, no. 26;
figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl.
236, fig. 1931 ♂ D&V, 1932 ♀ D&V.

Original Combination: *Polyommatus xanthoides*

Type Locality: "Montagnes de la Californie"; defined as
"Sacramento, Sacramento County, California" by J.
Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 12.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 12, figs. 42 ♂
D, 43 ♂ V.

= *luctuosa* (F. Watson & W. Comstock, 1920)

Bull. Am. Mus. Nat. Hist. 42(10): 453-454.

Original Combination: *Heodes xanthoides luctuosa*

Type Locality: "Tehachapi, California" [Kern
County]

Types: Holotype in AMNH.

= ‡"gunderi" Rudkin, 1933

Entomol. News 44(4): 97.

Original Combination: *Lycaena xanthoides* tr.
f. *gunderi*

Type Locality: "Bouquet Canyon, Los Angeles
Co., California"

Types: "Holotype" in CAS.

- c. **Lycaena xanthoides obsolescens** J. Emmel & Pratt,
1998

Syst. W. N. Am. Butterflies (52): 672-673, figs. 37 ♂ D,
38 ♂ V (holotype); 39 ♀ D, 40 ♀ V.

Original Combination: *Lycaena xanthoides obsolescens*

Type Locality: "California: Inyo County; Hunter
Mountain east of Nelson Range; small stream and
meadow 0.4 air miles southeast of peak 7107 on 1951
USGS Marble Canyon topographic quadrangle, 6800'
elevation, Death Valley National Monument"

Types: Holotype in LACM.

413. **Lycaena gorgon** (Boisduval, 1852)

- a. **Lycaena gorgon gorgon** (Boisduval, 1852)
Annls. Soc. Entomol. Fr. (2)10(2): 292, no. 25; figured by
Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 236, fig.
1929 ♂ D&V, 1930 ♀ D&V.

Original Combination: *Polyommatus gorgon*

Type Locality: "montagnes de la Californie"; defined as
"Hwy. 70 at Bear Ranch Creek, vicinity of Cresta, North
Fork Feather River Canton, elevation 1500', Butte
County, California" by J. Emmel *et al.* (1998), Syst. W. N.
Am. (2): 12.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 12, figs. 39 ♂
D, 40 ♂ V.

- b. **Lycaena gorgon micropunctata** J. Emmel & Pratt,
1998



- Syst. W. N. Am. Butterflies (52): 668-669, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V.
Original Combination: *Lycaena gorgon micropunctata*
Type Locality: "California: Mono County; Lower Rock Creek, 6200' elevation, 2.8 road miles SE of U. S. Highway 395"
Types: Holotype in LACM.
- c. **Lycaena gorgon jacquelineae** J. Emmel & Pratt, 1998
 Syst. W. N. Am. Butterflies (52): 666-667, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V.
Original Combination: *Lycaena gorgon jacquelineae*
Type Locality: "California: Modoc County; Pine Creek Canyon, 5500' elevation, County Road 2, 3 road miles east of New Pine Creek (town), Warner Mountains"
Types: Holotype in LACM.
- d. **Lycaena gorgon dorothea** J. Emmel & Pratt, 1998
 Syst. W. N. Am. Butterflies (52): 668, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V.
Original Combination: *Lycaena gorgon dorothea*
Type Locality: "Oregon. Josephine County; Illinois River Road, 3 miles west of Selma, Siskiyou National Forest, 1,350' elevation"
Types: Holotype in MGCL.
414. **Lycaena rubidus** (Behr, 1866)
 a. **Lycaena rubidus monachensis** K. Johnson & Balogh, 1977
 Bull. Allyn Mus. (43): 38-40, fig. 29 ♂ D&V (holotype) ♀ D&V, fig. 30A-F ♂ genitalia.
Original Combination: *Lycaena (Tharsalea) rubidus monachensis*
Type Locality: "Monache Meadows, Tulare County, California"
Types: Holotype in MGCL.
- b. **Lycaena rubidus incana** Austin, 1998
 Syst. W. N. Am. Butterflies (45): 539-540, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Lycaena rubida incana*
Type Locality: "Nevada: Esmeralda County; White Mountains, Trail Canyon, 2621 m, T1S R33E S10 on USGS Davis Mountain, Nev.-Calif. 15' quadrangle"
Types: Holotype in MGCL.
- c. **Lycaena rubidus rubidus** (Behr, 1866)
 Proc. Entomol. Soc. Philad. 6(2): 208.
Original Combination: *Chrysophanus rubidus*
Type Locality: "interior of Oregon"; neotype from "Oreg."; defined as "Horse Prairie, 5 miles east of Lakeview, Lake County, Oregon" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 102.
Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CMNH, designated by K. Johnson and Balogh (1977), Bull. Allyn Mus. (43): 20, figs. 16 ♂ D&V; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): figs. 49 ♂ D, 50 ♂ V.
 Species-genus gender conformation is *rubida*.
- d. **Lycaena rubidus duofascies** K. Johnson & Balogh, 1977
 Bull. Allyn Mus. (43): 21-25, fig. 19 ♂ D&V (holotype) ♀ D&V, fig. 20A-F ♂ genitalia.

Original Combination: *Lycaena (Tharsalea) rubidus duofascies*

Type Locality: "Bogus Basin, nr. Boise, Boise County, Idaho, 6000"

Types: Holotype in MGCL.

A. Warren (2005), Butterflies Ore.: 103, considered this taxon a synonym of *L. r. rubidus*.

- e. ***Lycaena rubidus perkinsorum*** K. Johnson & Balogh, 1977

Bull. Allyn Mus. (43): 25-28, fig. 21 ♂ D&V (holotype) ♀ D&V, fig. 22A-F ♂ genitalia.

Original Combination: *Lycaena (Tharsalea) rubidus perkinsorum*

Type Locality: "1 mi. E. the [sic!] Dalles, Wasco County, Oregon, 150" [The Dalles]

Types: Holotype in MGCL.

- f. ***Lycaena rubidus sirius*** (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 266, 270, no. 6; figured by W. H. Edwards (1875), Butterflies N. Am. 2(2): pl. Chrysophanus 1, figs. 8 ♂ D, 9 ♂ V, 10 ♀ D.

Original Combination: *Chrysophanus Sirius*

Type Locality: "Colorado"; suggested to be "Twin Lakes" and "Mt. Lincoln, South Park and Middle Park" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 161-162; defined as "vicinity of Twin Lakes, Lake Co., Colorado" by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 166-167.

Types: Lectotype in CMNH, designated by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 168-169, fig. ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 29, fig. 3 ♂ D.

- g. ***Lycaena rubidus longi*** K. Johnson & Balogh, 1977

Bull. Allyn Mus. (43): 28-32, fig. 23 ♂ D&V (holotype) ♀ D&V, fig. 24A-C ♂ genitalia.

Original Combination: *Lycaena (Tharsalea) rubidus longi*

Type Locality: "Cañon Region north of Harrison, Sioux County, Nebraska"

Types: Holotype in MGCL.

- h. ***Lycaena rubidus ferrisi*** K. Johnson & Balogh, 1977

Bull. Allyn Mus. (43): 40-42, fig. 31 ♂ D&V (holotype) ♀ D&V, fig. 32A-F ♂ genitalia.

Original Combination: *Lycaena (Tharsalea) ferrisi*

Type Locality: "Apache Ditch Camp (13 miles east of McNary), Apache County, Arizona"

Types: Holotype in MGCL.

Pratt *et al.* (1993), J. Res. Lepid. 30(3/4): 190, treated this taxon as a subspecies of *L. rubidus*; its status needs further elaboration.

415. ***Lycaena heteronea*** Boisduval, 1852

- a. ***Lycaena heteronea heteronea*** Boisduval, 1852

Annls. Soc. Entomol. Fr. (2)10(2): 298, no. 35; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 237, figs. 1946 ♂ D&V, 1947 ♀ D&V.

Original Combination: *Lycaena heteronea*

Type Locality: "montagnes du nord"; defined as "bluff between Cavallo Point and Yellow Bluff, ca. 2 air miles SSE of Sausalito, Marin County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 15.



- Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 15, figs. 72 ♂ D, 73 ♂ V.
- b. *Lycaena heteronea northi*** J. Emmel & Pratt, 1998
Syst. W. N. Am. Butterflies (52): 671, figs. 33 ♂ D, 34 ♂ V (holotype); 35 ♀ D, 36 ♀ V.
Original Combination: *Lycaena heteronea northi*
Type Locality: "California: Humboldt County; North Trinity Mountain; 1/2 mile up trail to Water Dog Lakes, 5,800' elevation"
Types: Holotype in LACM.
- c. *Lycaena heteronea submaculata*** J. Emmel & Pratt, 1998
Syst. W. N. Am. Butterflies (52): 670-671, figs. 29 ♂ D, 30 ♂ V (holotype); 31 ♀ D, 32 ♀ V.
Original Combination: *Lycaena heteronea submaculata*
Type Locality: "California: Plumas County; Warner Valley, at south boundary of Lassen National Park"
Types: Holotype in LACM.
- d. *Lycaena heteronea clara*** Hy. Edwards, 1877
Pac. Coast Lepid. (26): [1].
Original Combination: *Lycaena clara*
Type Locality: "Tehachapi Pass, S. P. R. R., Kern Co...Colorado and the mountains of California"; all syntypes are from "Tehachapi Pass, California."
Types: Syntypes in MGCL and AMNH; one figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 30, fig. 26 ♀ D.
- e. *Lycaena heteronea austin*** Kemal & Koçak, 2007
Centre Entomol. Stud. Ankara. Misc. Pap. (135): 2.
Original Combination: *Lycaena (Chalceria) heteronea austin*
Proposed as a replacement name for *Lycaena heteronea rutila* Austin, 1998, preoccupied, with the same data (Code Article 60.3).
= ‡*rutila* Austin, 1998
Syst. W. N. Am. Butterflies (45): 541, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.
Original Combination: *Lycaena heteronea rutila*
Type Locality: "Nevada: Lincoln County; Wilson Creek Range, Wilson Peak Road, 2470 m, T5N R68E S21, 28 on USGS Trail Canyon, Nev. 7.5' quadrangle"
Types: Holotype in MGCL.
Preoccupied by *Papilio rutilus* Werneberg, 1864, Beitr. Schmett. 1: 391..
- f. *Lycaena heteronea rava*** Austin, 1998
Syst. W. N. Am. Butterflies (45): 540, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.
Original Combination: *Lycaena heteronea rava*
Type Locality: "Nevada: Elko County; Ruby Mountains, Lamoille Canyon, end of Lamoille Canyon Road, 2700 m, T32N R58E S36 on USGS Lamoille, Nev. 15' quadrangle"
Types: Holotype in MGCL.
- g. *Lycaena heteronea klotsi*** W. D. Field, 1936



Entomol. News 47(5): 123.

Original Combination: *Lycaena heteronea* new race *klotsi*

Type Locality: "Broadwater County, Montana"

Types: Holotype in USNM.

- h. **Lycaena heteronea gravenotata** Klots, 1930
Bull. Brooklyn Entomol. Soc. 25(3): 163-165, figs. 1 ♂ V (holotype); 2 ♀ V, 3 ♂ V, 4 ♀ V.
Original Combination: *L[ycæna]. heteronea gravenotata*
Type Locality: "Plainview, Jefferson County, Colo. Alt. 6783 ft." [Colorado]
Types: Holotype in AMNH.
= ‡"coloradensis" (Gunder, 1925)
Entomol. News 36(7): 194, no. 1, pl. 5, fig. 1 ♂ V ("holotype").
Original Combination: *Heodes heteronia* [sic!] ab. ♂ *coloradensis*
Type Locality: "Plain View [sic!], Colorado" [Plainview, Jefferson County]
Types: "Holotype" in MGCL.

Subgenus **Epidemia** Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 127, no. 33. Type-species: *Polyommatus epixanthe* Boisduval & Le Conte, [1835], Hist. Lépid. Amér. sept. (13): pl. 38, figs. 4, 5; (14): 127, by original designation.

- = *Hylolycaena* L. Miller & F. Brown, 1979
Bull. Allyn Mus. (51): 15-17. Type-species: *Papilio hyllus* Cramer, 1775, Uitl. Kapellen 1(4): 67-68, pl. 43, figs. B, C; (8): 153 (index), by original designation. Pratt and D. Wright (2003), Pan-Pac. Entomol. 78(4): 226, placed this taxon here.
= *Hellolycaena* Koçak, 1983
Priamus 3(1): 3-5. Type-species: *Polyommatus thoe* Guérin-Méneville, [1832], Icon. Règne Anim. Cuvier: pl. Ins. 81, figs. 4, 4a, 4b (= *Papilio hyllus* Cramer, 1775, Uitl. Kapellen 1(4): 67-68, pl. 43, figs. B, C; (8): 153 (index)), by original designation. Koçak (1983), thought that *hyllus* was a species-level taxon from the Old World, distinct from *thoe*; in this he disagreed with F. Brown and W. D. Field (1970), J. N. Y. Entomol. Soc. 78(4): 175-184.

416. **Lycaena hyllus** (Cramer, 1775)
Uitl. Kapellen 1(4): 67-68, pl. 43, figs. B ♂ D, C ♂ V; (8): 153 (index).
Original Combination: *Pap[ilio]. Pleb[ejus]. Ruralis Hyllus*
Type Locality: "Smirna" "Smirne" [Smyrna, Turkey]; neotype from "Brooklyn, New York" [Kings County, New York]
Types: Neotype in USNM, designated by Calhoun (2010), J. Lepid. Soc. 64(2): 87, fig. 18 ♀ D&V.
Calhoun (2010), J. Lepid. Soc. 64(2): 79-90, 20 figs., gave a detailed historical treatment of both *Papilio hyllus* and *Polyommatus thoe*. He cemented the use of the name *hyllus* for this taxon thereby stabilizing its current usage.
= *thoe* (Guérin-Méneville, [1832])
Icon. Règne Anim. Cuvier 2(18): pl. Ins. 81, figs. 4 ♀ D, 4a ♀ V, 4b [1832]; 3: 490 [1844].
Original Combination: *Polyommatus Thoe*
Type Locality: "l'Amerique du Nord"

Types: Location of type(s) not known, possibly in MNHP.

F. Brown and W. D. Field (1970), J. N. Y. Entomol. Soc. 78(4): 175-184, successfully supplanted *Polyommatus thoe* with *Papilio hyllus* as the senior synonym. The rules current at the time were violated by replacing a long recognized name with an overlooked senior synonym, that action was cemented by the designation of a neotype for *hyllus* above.

= ‡"wormsbacheri" Gunder, 1927
Bull. South. Calif. Acad. Sci. 26(2): 53.

Original Combination: *Lycaena thoe* nov. tr.
f. *wormsbacheri*

Type Locality: Not known, but possibly Cleveland, Ohio, where Wormsbach lived. [Cuyahoga County]

Types: "Holotype" in USNM.

= ‡"wyatti" Gunder, 1927
Can. Entomol. 59(12): 285, no. 16, pl. A, fig. 16 ♂ D, 16b ♂ V ("holotype"), 16d ♀ D.

Original Combination: *Lycaena (Heodes) thoe* tr.
f. *wyatti*

Type Locality: "Colorado?"

Types: "Holotype" in FMNH.

417. **Lycaena epixanthe** (Boisduval & Le Conte, [1835])

a. **Lycaena epixanthe epixanthe** (Boisduval & Le Conte, [1835])

Hist. Lépid. Amér. sept. (13): pl. 38, figs. 4 ♀ D, 5 ♂ V; (15): 127.

Original Combination: *P[olyommatus] Epixanthe*

Type Locality: "aux environs de New-Harmony-Indiana"; suggested to be "somewhere in New Jersey or the environs of Philadelphia" by Rawson (1948), J. N. Y. Entomol. Soc. 56(1): 58.

Types: Lectotype in USNM, designated by Rawson (1948), *ibid*.

b. **Lycaena epixanthe phaedrus** (G. Hall, 1924)

J. N. Y. Entomol. Soc. 32(2): 111.

Original Combination: *Heodes epixanthe phaedrus*

Type Locality: "Dublin Shore, Lunenburg Co., N. S." [Nova Scotia]

Types: Holotype in AMNH.

Genus-species gender conformation is *phaedra*.

= *amicetus* (W. Holland, 1931)

Butterfly Book (rev. ed.): 250, no. 15, pl. 28, fig. 28 ♂ D (lectotype), pl. 64, figs. 41 ♂ D, 42 ♀ V.

Original Combination: *Chrysophanus amicus*

Type Locality: "Newfoundland"; defined as "the Avalon Peninsula, S. E. Newfoundland, in the general vicinity of St. John" by F. Brown (1968), J. N. Y. Entomol. Soc. 76(1): 25. [Newfoundland and Labrador]

Types: Lectotype in CMNH, designated by Clench (1968), *in*: F. Brown, J. N. Y. Entomol. Soc. 76(1): 25.

This name was listed (as *Polyommatus amicus*) without a description or indication by E. Doubleday (1847), List Spec. Lepid. Brit. Mus. 2: 55, Scudder (1876), Bull. Buffalo Soc. Nat. Sci. 3: 128, and Scudder (1889), Butterflies E. U. S. & Can. 2(7): 985

(as a manuscript name credited to Boisduval); these are *nomina nuda*.

- c. **Lycaena epixanthe michiganensis** Rawson, 1948
J. N. Y. Entomol. Soc. 56(1): 59-60.

Original Combination: *Lycaena epixanthe michiganensis*

Type Locality: "Proud Lake, Oakland County, Michigan"

Types: Holotype in USNM.

418. **Lycaena dorcas** W. Kirby, 1837

There is no consensus on relationships between taxa placed under *L. dorcas* and *L. helloides* (e.g. Ferris (1977), Bull. Allyn Mus. (45): 1-42, Scott (1979), J. Res. Lepid. 17(1): 40-50, (2006), Papilio (n.s.) 12: 44-45, and (2008), Papilio (n.s.): 43-55. Further study is required before a stable nomenclature can be attained.

- a. **Lycaena dorcas claytoni** A. E. Brower, 1940
Bull. Brooklyn Entomol. Soc. 35(4): 138.

Original Combination: *Lycaena dorcas claytoni*

Type Locality: "Springfield, Maine" [Penobscot County]

Types: Holotype in USNM.

- b. **Lycaena dorcas michuron** Scott, 2006

Papilio (n.s.) 12: 42, pl. 4, 3rd row right center ♀ D&V (holotype).

Original Combination: *Lycaena dorcas michuron*

Type Locality: "Fenton Road, N of Hwy. 59. Livingston Co. Mich." [Michigan]

Types: Holotype in BMNH.

- c. **Lycaena dorcas dorcas** W. Kirby, 1837

In: J. Richardson, Fauna Bor.-Am. [4]: 299, no. 1, pl. 4, fig. 1 ♀ D.

Original Combination: *Lycaena Dorcas*

Type Locality: "Lat. 54⁰ⁿ"; suggested to be "Cumberland-house" by W. Comstock and Huntington (1959), J. N. Y. Entomol. Soc. 67(3/4): 210; neotype from "The Pas, Manitoba."

Types: Neotype in CNC, designated by Ferris (1977), Bull. Allyn Mus. (45): 23, fig. 59 ♀ D&V.

‡"anthelle" (E. Doubleday, 1847)

List Spec. Lepid. Brit. Mus. 2: 55.

Original Combination: *Polyommatus Anthelle*

Type Locality: "Martin's Falls, Albany River, Hudson's Bay" [Martin Falls, Ontario]

Types: "Syntypes" in BMNH.

W. Barnes and Benjamin (1926), Bull. South. Calif. Acad. Sci. 25(3): 95, noted that one of the "types" was in the USNM. Klots (1936), Bull. Brooklyn Entomol. Soc. 31(4):165, stated that this is a manuscript name for *dorcas* and a *nomen nudum*.

- d. **Lycaena dorcas arcticus** (Ferris, 1977)

Bull. Allyn Mus. (45): 33-35, figs. 86 ♂ D&V (holotype), 87 ♀ D&V.

Original Combination: *Epidemia dorcas arcticus*

Type Locality: "Mayo Lake Road, Yukon Territory, Canada"

Types: Holotype in MGCL.

Genus-species gender conformation is *arctica*.

- e. **Lycaena dorcas florus** (W. H. Edwards, [1884])

Can. Entomol. 15(11): 210-211.

Original Combination: *Chrysophanus Florus*

Type Locality: "Red Deer River, B. Am."; lectotype from "Garnett's Ranch, near Lundbreck, mouth of Crowsnest [sic!] Pass, Alberta" [Crow's Nest Pass]

Types: Lectotype (#G 2960) in CNC, designated by Bird and Ferris (1979), Can. Entomol. 111(5): 637-639, figs. 3 ♂ D, 4 ♂ V; figured by Kondla and C. Guppy (2002), Tax. Rep. Int. Lepid. Surv.: figs. 1 upper, ♂ D, 2 upper ♂ V. A previous lectotype designation by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 173-174, fig. 5 ♂ D&V, was in error.

f. **Lycaena dorcas megaloceras** (Ferris, 1977)

Bull. Allyn Mus. (45): 31-33, figs. 84 ♂ D&V (holotype), 85 ♀ D&V.

Original Combination: *Epidemia dorcas megaloceras*

Type Locality: "5-Spring Creek, 9100' (2775m), Big Horn Co., Wyoming"

Types: Holotype in MGCL.

= ‡"hulbirti" W. D. Field, 1936

J. Entomol. & Zool. 28(2): 25-26.

Original Combination: *Lycaena dorcas* race *florus* female f. *hulbirti*

Type Locality: "Broadwater Co., Montana"

Types: "Holotype" USNM.

= ‡"sternitzkyi" W. D. Field, 1936

J. Entomol. & Zool. 28(2): 26.

Original Combination: *Lycaena dorcas* race *florus* female f. *sternitzkyi*

Type Locality: "Broadwater Co., Montana"

Types: "Holotype" USNM.

g. **Lycaena dorcas castro** (Reakirt, 1866)

Proc. Entomol. Soc. Philad. 6(1): 148-149.

Original Combination: *Polyommatus Castro*

Type Locality: "Rocky Mountains, Colorado Territory"

Types: Lectotype in FMNH, designated by Ferris (1977), Bull. Allyn Mus. (45): 25, fig. 68 ♂ D&V.

= *sangremer* J. Scott, 2008

Papilio (n.s.) 18: 47, pl. 2, fourth row right % D, fifth row right % V (holotype).

Original Combination: *Lycaena florus* [*castro*] *sangremer*

Type Locality: "NE Taos Ski Basin, 10400', Sangre de Cristo Mts., Taos Co. New Mex."

Types: Holotype in BMNH.

= ‡"williamsi" Gunder, 1927

Can. Entomol. 59(12): 285, no. 14, pl. A, fig. 14 ♂ D, 14b ♂ D ("holotype"), 14d ♀ D.

Original

Combination: *Lycaena* (*Dione*) *helooides* tr f. *williamsi*

Type Locality: "Hall's [sic!] Valley, Park Co., Colo." [Hall Valley, Colorado]

Types: "Holotype" (#7178) in CMNH.

419. **Lycaena dospassosi** McDunnough, 1940

Can. Entomol. 72(7): 130-131.

Original Combination: *Lycaena dorcas* v. *dosPassosi*

Type Locality: "Bathurst, N. B." [New Brunswick]

- Types:** Holotype (# 5092) in CNC.
Layberry *et al.* (1998), Butterflies Can.: 126, elevated this taxon to the species-level.
420. **Lycaena helloides** (Boisduval, 1852)
Annls. Soc. Entomol. Fr. (2)10: 291, no. 24; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 236, figs. 1927 ♂ D&V, 1928 ♀ D&V.
Original Combination: *Polyommatus helloides*
Type Locality: “aux environs de San Francisco”; defined as “San Francisco, San Francisco County, California” by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 12.
Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 12, 36 ♂, 37 ♂ V; figured by Ferris (1977), Bull. Allyn Mus. (45): fig. 50 ♂ D&V.
= ‡”sternitzkyi” Gunder, 1927
Can. Entomol. 59(12): 285, no. 15, pl. A, fig. 15 ♂ D (“holotype”).
Original Combination: *Lycaena* (*Heodes*) *thoe* tr. f. *sternitzkyi*
Type Locality: “Petaluma, Calif.” [Sonoma County, California]
Types: “Holotype” in AMNH.
421. **Lycaena nivalis** (Boisduval, 1869)
a. **Lycaena nivalis nivalis** (Boisduval, 1869)
Annls. Soc. Entomol. Belg. 12: 44-45, no. 19; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 238, figs. 1955 ♂ D&V, 1956 ♀ D&V.
Original Combination: *Polyommatus nivalis*
Type Locality: “de la région des neiges”; suggested to be “in the Sierras (Sierra Nevada, Placer or El Dorado County)” by dos Passos (1938), Can. Entomol. 70(3): 45; defined as “Gold Lake, Sierra County, California” by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 26.
Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 26, figs. 183 ♂ D, 184 ♂ V.
= *ianthe* (W. H. Edwards, 1871)
Trans. Am. Entomol. Soc. 3(3/4): 205, 211-212, no. 12.
Original Combination: *Chrysophanus ianthe*
Type Locality: “Nevada”; suggested to be “near Virginia City” by dos Passos (1938), Can. Entomol. 70(3): 45; further defined as “Lake Tahoe, Nevada” by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 169.
Types: Lectotype in CMNH, designated by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 171, fig. 4 ♀ D&V.
- b. **Lycaena nivalis bichroma** J. Emmel & Pratt, 1998
Syst. W. N. Am. Butterflies (52): 664-665, figs. 9 ♂ D, 10 ♂ V, 11 ♀ D, 12 ♀ V.
Original Combination: *Lycaena nivalis bichroma*
Type Locality: “California: Siskiyou County; summit of Mt. Eddy”
Types: Holotype in LACM.
- c. **Lycaena nivalis warnermontana** J. Emmel & Pratt, 1998
Syst. W. N. Am. Butterflies (52): 665-666, figs. 13 ♂ D, 14 ♂ D (holotype); 15 ♀ D, 16 ♀ V.

- Original Combination:** *Lycaena nivalis warnermontana*
Type Locality: "California: Modoc County; Dismal Swamp, Warner Mountains"
Types: Holotype in LACM.
- d. ***Lycaena nivalis praetexta*** Austin, 1998
 Syst. W. N. Am. Butterflies (45): 541-542, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.
Original Combination: *Lycaena nivalis praetexta*
Type Locality: "Nevada: Elko County; Owyhee River Valley, Wildhorse Creek, Wildhorse Crossing Campground, 1950 m, T44N R54E (unsectioned) on USGS Wild Horse, Nev. 15' quadrangle"
Types: Holotype in MGCL.
- e. ***Lycaena nivalis browni*** dos Passos, 1938
 Can Entomol. 70(3): 45, pl. 2, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Lycaena nivalis browni*
Type Locality: "Snowslide Canyon, eight miles from Montpelier, Idaho" [Bear Lake County]
Types: Holotype in AMNH.
422. ***Lycaena mariposa*** (Reakirt, 1866)
- a. ***Lycaena mariposa mariposa*** (Reakirt, 1866)
 Proc. Entomol. Soc. Philad. 6(1): 149-150, note.
Original Combination: *Polyommatus Mariposa*
Type Locality: "California"
Types: Syntypes in FMNH, ANSP, and (#16012) in MCZ; figured by Strecker (1874), Lepid. Rhop. Het. (10): pl. 10, figs. 25 ♂ D&V, 26 ♀ D.
 = *zeroe* (Boisduval, 1869)
 Annls. Soc. Entomol. Belg. 12: 45, no. 20; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 238, figs. 1957 ♂ D&V, 1958 ♀ D&V.
Original Combination: *Polyommatus zeroe*
Type Locality: "les hautes montagnes des frontières de l'Utah"; suggested to be "eastern flanks of the Californian or Nevadan mountains somewhere west of the general region of Reno and Carson City, Nevada" by F. Brown (1967), J. Lepid. Soc. 21(4): 273; defined as "Gold Lake, Sierra County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 26.
Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 26, figs. 186 ♂ D, 187 ♂ V.
- b. ***Lycaena mariposa charlottensis*** (W. Holland, 1930)
 Ann. Carnegie Mus. 20(1): 6-7; figured by W. Holland (1931), Butterfly Book (rev. ed.): fig. 47 ♂ D (holotype), 48 ♂ V, 49 ♀ D.
Original Combination: *Chrysophanus charlottensis*
Type Locality: "Queen Charlotte Island" [British Columbia]
Types: Holotype in CMNH.
- c. ***Lycaena mariposa penroseae*** W. D. Field, 1938
 Pan-Pac. Entomol. 14(3): 142-143.
Original Combination: *Lycaena mariposa penroseae*
Type Locality: "Lake Eleanor, Yellowstone National Park, elevation 8500 ft." [Wyoming]
Types: Holotype in MGCL.

Subfamily **Theclinae** Swainson, 1831

Zool. Illustr. (2)2(18): pl. 85, unnumbered text (as "Theclanae"). Type-genus: *Thecla* [Fabricius], 1807, in: Illiger, Mag. f. Insektenk. 6: 286. The family-group name Theclinae (applied at various levels) has long been accepted as the proper name for this taxon, even though Zephyrinae Billberg, 1820, Enum. Ins. Mus. Billb.: 80, no. 2, is senior.

Tribe **Theclini** Swainson, 1831 (1820)

Genus **Hypaurotis** Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 112-113, no. 16. Type-species: *Thecla crysalus* W. H. Edwards, 1873, Trans. Am. Entomol. Soc. 4(4): 344-345, by original designation.

423. **Hypaurotis crysalus** (W. H. Edwards, 1873)

a. **Hypaurotis crysalus crysalus** (W. H. Edwards, 1873)

Trans. Am. Entomol. Soc. 4(4): 344-345.

Original Combination: *Thecla Crysalus*

Type Locality: "Lake Pass"; corrected to "Palmer Lake, El Paso Co., Colorado" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 22-23.

Types: Lectotype (#15726) in MCZ, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 23, fig. 1 ♀ D&V.

b. **Hypaurotis crysalus intermedia** Austin, 1998

Syst. W. N. Am. Butterflies (45): 542-543, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V.

Original Combination: *Hypaurotis crysalus intermedia*

Type Locality: "Nevada: Lincoln County; Highland Range, Highland Spring, 2073 m, T1N R66E S26 on USGS Highland Peak, Nev. 7.5' quadrangle"

Types: Holotype in MGCL.

c. **Hypaurotis crysalus citima** (Hy. Edwards, 1881)

Papilio 1(4): 53.

Original Combination: *Thecla citima* n. var [of *crysalus*]

Type Locality: "Mt. Nebo, Utah...S. W. Colorado"; holotype from Mt. Nebo. [Juab-Utah counties, Utah]

Types: Syntype in AMNH.

Genus **Habrodais** Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 113, no. 17. Type-species: *Thecla grunus* Boisduval, 1852, Annls. Soc. Entomol. Fr. (2)10(2): 289, no. 19, by original designation.

424. **Habrodais grunus** (Boisduval, 1852)

a. **Habrodais grunus lorquini** W. D. Field, 1938

Bull. South. Calif. Acad. Sci. 37(1): 27-28.

Original Combination: *Habrodais grunus lorquini*

Type Locality: "Mt. Diablo, Contra Costa Co., California"

Types: Holotype in MGCL.

= ‡"chloris" W. D. Field, 1938

Bull. South. Calif. Acad. Sci. 37(1): 28.

Original Combination: *Habrodais grunus lorquini* f. *chloris*

Type Locality: "Mt. Diablo, Contra Costa Co., California"

Types: "Holotype" in MGCL.

- b. **Habrodais grunus grunus** (Boisduval, 1852)
 Annls. Soc. Entomol. Fr. (2)10(2): 289, no. 19; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 235, fig. 1923 ♂ D&V. This figure does not represent the type, as determined by W. D. Field (1938), Bull. South. Calif. Acad. Sci. 37(1): 24-25.
Original Combination: *Thecla grunus*
Type Locality: "Californie" implied from the title of the paper; suggested to be "Sierra-Nevada Mountains" by W. D. Field (1938), Bull. South. Calif. Acad. Sci. 37(1): 24-25; neotype from "Hwy. 70 at Chambers Creek, North Fork Feather River Canyon, Plumas County, California."
Types: Neotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 10, figs. 21♂ D, 22 ♂ V.
- c. **Habrodais grunus herri** W. D. Field, 1938
 Bull. South. Calif. Acad. Sci. 37(1): 29.
Original Combination: *Habrodais grunus herri*
Type Locality: "McKenzie (Sister's) Pass, Oregon" [Lane-Deschutes counties]
Types: Syntypes in USNM.

Tribe **Eumaeini** E. Doubleday, 1847

List Spec. Lepid. Ins. Brit. Mus. 2: 20 (as "Eumaeidae"). Type-genus: *Eumaeus* Hübner, [1819], Verz. bekannt. Schmett. (5): 67. The synonymy of genera and species in this tribe has been derived from Smith *et al.* (1994), Butterflies W. Ind. & Fla.: 107-125, Robbins (2004), *in*: Lamas, Atl. Neotrop. Lepid. Chcklst. Part 4A: 118-137, and other recent works.

Subtribe **Eumaeina** E. Doubleday, 1847

Genus **Eumaeus** Hübner, [1819]

Verz. bekannt. Schmett. (5): 67. Type-species: *Rusticus minyas* Hübner, [1809], Samml. exot. Schmett. 1: pl. [97], figs. 1, 2, 3, 4, by monotypy.

- = *Eumenia* Godart, [1824]
In: Ency. méth. 9(Ins.)(2): 826. Type-species: *Eumenia toxea* Godart, [1824], *in*: Ency. méth. 9(Ins.)(2): 826, no. 1, by monotypy.
- = *Eumaea* Geyer, [1834]
In: Hübner, Samml. exot. Schmett. 3: pl. [18]. Type-species: *Eumaea debora* Geyer, [1834], *in*: Hübner, Samml. exot. Schmett. 3: pl. [18], figs. 1, 2, 3, 4 (= *Eumenia childrenae* G. Gray, 1832, Griffiths' Anim. Kingd. 15(2): 677, pl. 112, figs. 3, 3a, 3b; synonym), by monotypy.
- = ‡*Epula* Gistel, 1848
 Naturgesch. Thierreichs höhe Sch.: ix. Type-species: *Eumenia toxea* Godart, [1824], *in*: Ency. méth. 9(Ins.)(2): 826, no. 1, as a replacement name. Proposed to replace *Eumenia* Godart, [1824], erroneously thought preoccupied. A junior objective synonym of *Eumenia*.

425. **Eumaeus toxea** (Godart, [1824])
 Ency. méth. 9(Ins.)(2): 826, no. 1.
Original Combination: *Eumenia Toxea*
Type Locality: "l'intérieur de l'Amérique méridionale"; suggested to be "Guatemalan" by Lathy (1926), Ann. Mag. Nat. Hist. (9)17(97): 39.

Types: Syntype in MNHP; figured by Faynel and Bálint (2004), Bull. Soc. Entomol. Fr. 109(3): fig. 1 ♀ D&V. Goodson (1947), Entomol. 80(1015): 274, no. 2, diagnosed this taxon as distinct from *E. minyas* (Hübner, 1809), Samml. exot. Schmett. 1: pl. [97], figs. 1, 2, 3, 4. Robbins (1984), in: R. Kendall and McGuire, Bull. Allyn Mus. (86): 15, detailed several old, perhaps dubious, records of this taxon from southern Texas.

426. **Eumaeus atala** (Poey, 1832)
Cent. Lépid. Cuba (1): [7-9], [no. 3], pl. [3], figs. [1] ♂ D, [2] ♂ V, [3] ♀ D.
Original Combination: *Eumenia Atala*
Type Locality: "Havane" [Cuba]
Types: Syntype (#7771) in ANSP.
= *florida* Röber, 1926
Entomol. Mitt. 15(5/6): 373; cited [Draudt] (1916), in: Seitz, Grossschmett. Erde 5(246): pl. 146b, figs. [1] ♂ V, [2] ♂ D.
Original Combination: [*Eumaeus atala*] [form] *florida*
Type Locality: "Florida"; suggested to be "Miami, Dade Co." by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 98. [Miami-Dade County]
Types: Location of type(s) not known.
This taxon has been thought by some (e.g., Calhoun (1997), Holarct. Lepid. 4(2): 45), to be only slightly distinct from *E. a. atala*, and was placed in synonymy by Smith *et al.* (1994), Butterflies W. Ind. & Fla.: 107, and Robbins (2004), in: Lamas, Atl. Neotrop. Lepid. Chcklst. Part 4A: 118.
= *grayi* W. Comstock & Huntington, 1943
Ann. N. Y. Acad. Sci. 45(2): 60.
Original Combination: *Eumaeus atala grayi*
Type Locality: "Florida...Miami" [Miami-Dade County]
Types: Holotype in AMNH.

Genus *Atlides* Hübner, [1819]

Verz. bekannt. Schmett. (5): 80. Type-species: *Papilio halesus* Cramer, 1777, Uitl. Kapellen 2(9): 3-4, pl. 98, figs. B, C; (16): 149 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 124, no. 147.

- = *Riojana* d'Abrerra & Bálint, 2001
Conc. Atlas Butterflies World: 195 Type-species: *Thecla thargelia* Burmeister, 1878, Descr. phys. Rép. Argentine 5(Lépid.)(1): 230, Atl. pl. 8, fig. 9.
427. **Atlides halesus** (Cramer, 1777)
a. **Atlides halesus halesus** (Cramer, 1777)
Uitl. Kapellen 2(9): 3-4, pl. 98, figs. B ♂ D, C ♂ V; (16): 149 (index).
Original
Combination: *Pap[ilio]. Pleb[ejus]. Rural[is]. Halesus*
Type Locality: "Virginien" "Virginie"
Types: Type(s) probably lost.
= *dolichos* Hübner, 1823
Zutr. Samml. exot. Schmett. 2: pl. [39], figs. 219 ♀ D, 220 ♀ V [1821]; 9, no. 110 (1823, name given).
Original Combination: *Atlides Dolichos*
Type Locality: "Georgien in Florida"

Types: Type(s) probably lost.

This name was proposed (as "*dolichus*") by Hübner [1819], Verz. bekannt. Schmett. (5): 80, no. 815; a *nomen nudum*.

= *juanita* (Scudder, 1868)

Proc. Boston Soc. Nat. Hist. 11: 435-436.

Original Combination: *Thecla Juanita*

Type Locality: "Pilatka, Florida" [now Palatka, Putnam County]

Types: Type(s) may be in MCZ.

b. *Atlides halesus corcorani* Clench, 1942

Entomol. News 53(8): 219.

Original Combination: *Atlides halesus corcorani* form *estesii*, new normal form

Clench adopted *Atlides halesus* tr. f. *corcorani* Gunder, 1934, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= ‡"*corcorani*" Gunder, 1934

Can. Entomol. 66(6): 131.

Original Combination: *Atlides halesus* tr. f. *corcorani*

Type Locality: "Riverside, Riverside County, Calif." [California]

Types: "Holotype" in AMNH.

= ‡"*estesii*" Clench, 1942

Entomol. News 53(8): 219-220.

Original Combination: *Atlides halesus corcorani* form *estesii*, new normal form

Type Locality: "Riverside, California" [Riverside County]

Types: "Holotype" (#25703) in MCZ.

Genus *Rekoa* Kaye, 1904

Trans. Entomol. Soc. Lond. (4)1904(2): 198. Type-species: *Papilio meton* Cramer, 1779, Uitl. Kapellen 3(17): 15, pl. 201, figs. D, E; (24): 175 (index), by original designation. The genus- and species-level synonymies for this genus follow Robbins (1991), Smithsonian Contrib. Zool. (498): 1-64.

= *Heterosmaitia* Clench, [1964]

J. Res. Lepid. 2(4): 248, 254. Type-species: *Thecla bourkei* Kaye, [1925], Trans. Entomol. Soc. Lond. (4)1924(3/4): 416-417, by original designation.

428. *Rekoa palegon* (Cramer, 1780)

Uitl. Kapellen 3(24): 159, pl. 282, figs. C ♂ D, D ♂ V; (24): 176 (index).

Original

Combination: *Pap[ilio]. Pleb[ejus]. rural[is]. Palegon*

Type Locality: "Sierra Leona op de Goudkust van Afrika"

"Sierra Leona, sur la Côte d'or de l'Afrique" in error; suggested to be "Surinam" by Robbins (1991), Smithsonian Contrib. Zool. (498): 38.

Types: Type(s) probably lost.

= *myrtillus* (Stoll, 1781)

Uitl. Kapellen 4(32): 178, pl. 380, figs. B ♂ D, C ♂ V; (34): 250 (index).

Original

Combination: *Pap[ilio]. Pleb[ejus]. Rural[is]. Myrtillus*

Type Locality: "Surinamen" "Suriname"

- Types:** Type(s) probably lost.
- = *juicha* (Reakirt, [1867])
Proc. Acad. Nat. Sci. Philad. 18(5): 338-339, no. 44.
Original Combination: *Thecla juicha*
Type Locality: "Mexico, near Vera Cruz" [Veracruz]
Types: Location of type(s) not known, probably lost.
- = *cyrriana* (Hewitson, 1874)
Entomol. Mon. Mag. 11(124): 105; figured by Hewitson (1877), Ill. diurn. Lepid. Lycaenidae 2(7): pl. 78, figs. 627 ♂ V, 628 ♂ D.
Original Combination: *Thecla Cyrriana*
Type Locality: "Peru"; suggested to be "either Mazatlán, Sinaloa, or Acapulco, Guerrero" by Clench (1967), J. Lepid. Soc. 21(3): 183.
Types: Lectotype in BMNH, designated by Robbins (1991), Smithsonian Contrib. Zool. 498: 39.
- = *ulia* (Dyar, 1913)
Proc. U. S. Nat. Mus. 45(2006): 637.
Original Combination: *Thecla ulia*
Type Locality: "Cantas, 2,000 feet" [Peru]
Types: Holotype (#15623) in USNM.
429. **Rekoa marius** (Lucas, 1857)
In: Sagra, Hist. Cuba 7: 559-600.
Original Combination: *Thecla Marius*
Type Locality: "habite l'île de Cuba" in error.
Types: Lectotype in BMNH, designated by Robbins (1991), Smithsonian Contrib. Zool. 498: 46, figs. 96 ♀ D, 97 ♀ V.
- = *aon* (Lucas, 1857)
In: Sagra, Hist. Cuba 7: 610, pl. 16, figs. 6 ♂ D, 6a ♂ V, 6b ♀ D.
Original Combination: *Thecla Aon*
Type Locality: "environs de la Havane...ausii la Yucatan"
Types: Syntype in BMNH.
- = *spurina* (Hewitson, 1867)
Ill. diurn. Lepid. Lycaenidae 1(3): 102, no. 127; 2(3): pl. 39, figs. 122 ♀ D, 123 ♀ V.
Original Combination: *Thecla Spurina*
Type Locality: "Amazon" in error; lectotype suggested to be from "Central America" by Robbins (1991), Smithsonian Contrib. Zool. 498: 46.
Types: Lectotype in BMNH, designated by Robbins (1991), *ibid.*
- = *ericusa* (Hewitson, 1867)
Ill. diurn. Lepid. Lycaenidae (1): 113-114, no. 162; (2): pl. 42, fig. 162 ♀ V.
Original Combination: *Thecla Ericusa*
Type Locality: "Brazil" in error; lectotype suggested to be from "Central America" by Robbins (1991), Smithsonian Contrib. Zool. 498: 46.
Types: Lectotype in BMNH, designated by Robbins (1991), *ibid.*
- = *brescia* (Hewitson, 1868)
Descr. new Spec. Lycaenidae: 13-14, no. 31; figured by Hewitson (1869), Ill. diurn. Lepid. Lycaenidae 2(4): pl. 50, figs. 260 ♂ V, 261 ♂ D.
Original Combination: *Thecla Brescia*
Type Locality: "Mexico"

Types: Lectotype in BMNH, designated by Robbins (1991), Smithsonian Contrib. Zool. 498: 46.

= *voconia* (Hewitson, 1869)

Ill. diurn. Lepid. Lycaenidae 1(4): 120, no. 182; 2(4): pl. 49, figs. 244 ♂ D, 245 ♂ V.

Original Combination: *Thecla Voconia*

Type Locality: Not stated; lectotype suggested to be from "Brazil" by Robbins (1991), Smithsonian Contrib. Zool. 498: 46.

Types: Lectotype in BMNH, designated by Robbins (1991), *ibid.*

Genus *Arawacus* Kaye, 1904

Trans. Entomol. Soc. Lond. (4)1904(2): 197. Type-species: *Papilio linus* Fabricius, [1777], Gen. Ins.: 269 (= *Papilio aetolus* Sulzer, 1776, Abgekürzte Gesch. Ins. 1: 147; 2: pl. 19, figs. 10, 11; synonym), by original designation. Robbins (2000), Proc. Entomol. Soc. Wash. 102(1): 162-169, revised this genus.

= *Polyniphes* Kaye, 1904

Trans. Entomol. Soc. Lond. (4)1904(2): 191. Type-species: *Polyommatus dumenilii* Godart, [1824], Ency. méth. 9(Ins.)(2):(611), 677, no. 187, by original designation. As first reviser, priority was given to *Arawacus* over *Polyniphes* by Robbins (1991), Smithsonian Contrib. Zool. (498): 3.

= *Dolymorpha* W. Holland, 1931

Butterfly Book (rev. ed.): 228. Type-species: *Thecla jada* Hewitson, 1867, Ill. diurn. Lepid. Lycaenidae 1(3): 87-88, no. 73; 2(3): pl. 34, figs. 67, 68, by monotypy.

= *Tigrinota* K. Johnson, 1992

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22)(vol. I): i., 104; mention; (vol. II): 185-186, figs. 191E, 191F, 191G, 191H, 191I, 191J, 191K, 191L, 217-224. Type-species: *Thecla ellida* Hewitson, 1867, Ill. diurn. Lepid. Lycaenidae 1(3): 88, no. 76; 2(3): pl. 34, figs. 62, 63, 64, by original designation.

430. *Arawacus jada* (Hewitson, 1867)

Ill. diurn. Lepid. Lycaenidae 1(3): 87-88, no. 73; 2(3): pl. 34, figs. 67 ♂ D, 68 ♂ V.

Original Combination: *Thecla Jada*

Type Locality: "Mexico"

Types: Type(s) probably in BMNH.

Genus *Satyrium* Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 106, no. 8. Type-species: *Lycaena fuliginosa* W. H. Edwards, 1861, Proc. Acad. Nat. Sci. Philad. 13(6): 160, 164, no. 10, by original designation. The generic synonymy below generally follows Clench (1979), J. Lepid. Soc. 32(4): 277-281, with the caveat that there is disagreement over the rank of several taxa. The group is in need of revision.

Subgenus *Satyrium* Scudder, 1876

= ‡*Chrysophanus* Hübner, 1818

Zutr. Samml. exot. Schmett. 1: 24. Type-species: *Chrysophanus mopsus* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: 24, pl. [24], figs. 135, 136; 24, no. 48 (= *Hesperia titus* Fabricius, Entomol. Syst. 3(1): 297, no. 130; synonym), by designation of N. Riley (1922), J. Bombay Nat. Hist. Soc. 28(2): 467. I.C.Z.N. *Opinion 541* suppressed

- this name and placed it on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 1235.
- = ‡*Argus* Gerhard, 1850
Vers. monogr. Europ. Schmett. (1): 4. Type-species: *Lycaena ledereri* Boisduval, 1848, Bull. Soc. Entomol. Fr. (2)6: xxix, by monotypy. Preoccupied by *Argus* Bohadsch, 1761, De quibusdam Anim. marinis Liber.: 56. I.C.Z.N. *Opinion 541* placed this name *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 733.
 - = *Callipsyche* Scudder, 1876
Bull. Buffalo Soc. Nat. Sci. 3: 106, no. 9. Type-species: *Thecla behrii* W. H. Edwards, 1870, Trans. Am. Entomol. Soc. 3(1): 10, 18-19, no. 11, by original designation. It is unclear where or when precedence was given to *Satyrium* over *Callipsyche*, this was possibly done by Clench (1961), in: P. Ehrlich and A. Ehrlich, How Know Butterflies: 192.
 - = *Neolycaena* de Nicéville, 1890
Butterflies India Burmah Ceylon 3: 15, key, no. 107, 64, no. 107, pl. 26. Type-species: *Lycaena sinensis* Alphéraky, 1881, Horae Soc. Entomol. Ross. 16(3/4): 383, no. 39, pl. 14, fig. 7, by original designation. I.C.Z.N. *Opinion 899* placed this name on the *Official List of Generic Names in Zoology* as name no. 1885.
 - = ‡*Edwardsia* Tutt, 1907
Nat. Hist. Brit. Butterflies 2(4/5): 142. Type-species: *Papilio w-album* Knoch, 1782, Beitr. Insektengesch. 2: 85-88, pl. 6, figs. 1, 2, by original designation. Preoccupied by *Edwardsia* Costa, 1838, Fauna Regno Napoli, Crust.: *Edwardsia* 1.
 - = ‡*Felderia* Tutt, 1907
Nat. Hist. Brit. Butterflies 2(4/5): 142. Type-species: *Papilio w-album* var. *eximia* Fixsen, 1887, in: Romanoff, Mém. Lépid. 3: 271-273, no. 17, pl. 13, fig. 2, by original designation. Preoccupied by *Felderia* Walsingham, 1887, Trans. Entomol. Soc. Lond. 35(2): 165.
 - = ‡*Kollaria* Tutt, 1907
Nat. Hist. Brit. Butterflies 2(4/5): 142. Type-species: *Thecla sassanides* Kollar, [1849], Denkschr. K. Akad. Wiss. Wien., Math.-naturw. Cl. 1: 51, by original designation. Preoccupied by *Kollaria* Pictet, 1841, Hist. Nat. Ins. Neuropt. Perlides: 114.
 - = ‡*Erschoffia* Tutt, 1907
Nat. Hist. Brit. Butterflies 2(4/5): 142. Type-species: *Thecla lunulata* Ershov, 1874, Mém. Soc. Amis Sci. Nat. Moscou 11(2): 7, pl. 1, fig. 5, by original designation. Preoccupied by *Erschoffia* Swinhoe, 1900, Cat. east. Lepid. Het. Oxford Univ. Mus. 2: 221.
 - = ‡*Bakeria* Tutt, 1907
Nat. Hist. Brit. Butterflies 2(4/5): 142. Type-species: *Lycaena ledereri* Boisduval, 1848, Bull. Soc. Entomol. Fr. (2)6: xxix, by original designation. Preoccupied by *Bakeria* Kieffer, 1905, Ann. Mus. civ. Stor. Nat. Genova 42: 34.
 - = ‡*Klugia* Tutt, 1907
Nat. Hist. Brit. Butterflies 2(4/5): 142. Type-species: *Papilio spini* [Denis & Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 186, no. 5, by original designation. Preoccupied by *Klugia* Robineau-Desvoidy, 1863, Hist. Nat. Dipt. Paris 1: 785-787.
 - = *Nordmannia* Tutt, 1907

- Nat. Hist. Brit. Butterflies 2(4/5): 143. Type-species: *Lycaena myrtale* Klug, 1834, in: Ehrenberg, Sym. Phys. Ins. 4: signature I, pl. 40, figs. 15, 16, by original designation.
- = *Chattendenia* Tutt, 1908
 Nat. Hist. Brit. Butterflies 2(25): 483. Type-species: *Papilio w-album* Knoch, 1782, Beitr. Insektengesch. 2: 85-88, pl. 6, figs. 1, 2, as a replacement name; proposed to replace *Edwardsia* Tutt, 1907, preoccupied (Code Articles 60.3, 67.8). As first reviser, Hemming (1964), Annot. Lepid. (3): 83, accorded precedence to *Strymonidia* Tutt, 1908 over *Chattendenia*.
- = *Thecliolia* Strand, 1910
 Entomol. Rdsch. 27(22): 162. Type-species: *Thecla w-album* var. *eximia* Fixsen, 1887, in: Romanoff, Mém. Lépid. 3: 271, pl. 13, fig. 2, as a replacement name; proposed to replace *Felderia* Tutt, 1907, preoccupied (Code Articles 60.3, 67.8).
- = *Superflua* Strand, 1910
 Entomol. Rdsch. 27(22): 162. Type-species: *Thecla sassanides* Kollar, [1849], Denkschr. K. Akad. Wiss. Wien., Math.-naturw. Cl. 1: 51, as a replacement name; proposed to replace *Kollaria* Tutt, 1907, preoccupied (Code Article 60.3, 67.8).
- = *Pseudothecla* Strand, 1910
 Entomol. Rdsch. 27(22): 162. Type-species: *Thecla lunulata* Ershov, 1874, Mém. Soc. Amis Sci. Nat. Moscou 11(2): 7, pl. 1, fig. 5, as a replacement name; proposed to replace *Erschoffia* Tutt, 1907 (Code Articles 60.3, 67.8).
- = *Tuttiola* Strand, 1910
 Entomol. Rdsch. 27(22): 162. Type-species: *Papilio spini* [Denis & Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 186, no. 5, as a replacement name; proposed to replace *Klugia* Tutt, 1907, preoccupied (Code Article 60.3, 67.8).
- = *Necovatia* Verity, 1951
 Var. Geogr. Saison. Pap. Diurn. Fr. 2[6]: 183. Type-species: *Papilio acaciae* Fabricius, 178, Mantissa Ins. 2: 69, no. 655, by original designation.
- = *Harkenclenus* dos Passos, 1970
 J. Lepid. Soc. 24(1): 28, 36. Type-species: *Chrysophanus mopsus* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: 24, pl. [24], figs. 135, 136; 24, no. 48 (= *Hesperia titus* Fabricius, Entomol. Syst. 3(1): 297, no. 130; synonym), as a replacement name. Proposed to replace *Chrysophanus* Hübner, [1818], a suppressed name (Code Articles 60.3, 67.8). The position of this name in synonymy follows Opler (1992), Field Guide E. Butterflies: 103.
- = *Rhymnaria* Zhdanko, 1983
 Entomol. Obozr. 62(1): 135. Type-species: *Lycaena rhymnus* Eversmann, 1832, Nouv. Mém. Soc. Imp. Nat. Moscou 8[(n.s.) 2]: 350, pl. 19, figs. 1, 2, by original designation.
- = *Armenia* Dubatolov & Korshunov, 1984
 Nov. Maloizvest. Vidy Faun. Sib. (17): 53. Type-species: *Lycaena ledereri* Boisduval, 1848, Bull. Soc. Entomol. Fr. (2)6: xxix, as a replacement name; proposed to replace *Argus* Gerhard, 1850, Vers. monogr. Europ. Schmett. (1): 4, preoccupied (Code Articles 60.3, 67.8).
- = *Neosatyrium* M. Fisher, 2009
 Butterflies Colo. 4: 41. Type-species: *Rusticus calanus* Hübner, [1809], Samml. exot. Schmett. 1: pl. [100], figs. 1, 2, 3, 4. By original designation.



431. **Satyrium fuliginosa** (W. H. Edwards, 1861)
A. Warren (2005), Butterflies Ore.: 142-146, discussed the relationship and distinctions between *S. fuliginosa* and *S. semiluna*.
- a. **Satyrium fuliginosa fuliginosa** (W. H. Edwards, 1861)
Proc. Acad. Nat. Sci. Philad. 13(6): 160, 164, no. 10.
Original Combination: *Lycaena fuliginosa*
Type Locality: "California"; neotype from "Summit," currently known as Norden, El Dorado County, California.
Types: Neotype in CMNH, designated by Opler (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(1): 28, fig. 3 ♂ D&V. A subsequent "neotype" in the USNM, was designated by Mattoon and Austin (1998), Syst. W. N. Am. Butterflies (53): 682 (this is the lectotype of *suasa*), who claimed that the first neotype represents populations that Lorquin, the probable collector of the original types, would not have likely sampled. Further research may demonstrate this a faulty assumption. Species-genus gender conformation is *fuliginosum*.
= *suasa* (Boisduval, 1869)
Annls. Soc. Entomol. Belg. 12: 51, no. 34; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, fig. 2080 ♂ D&V.
Original Combination: *Lycaena Suasa*
Type Locality: "le sommet des montagnes de l'est"; defined as "Gold Lake, Sierra County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 30.
Types: Lectotype in USNM, J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 30, figs. 225 ♂ D, 226 ♂ V.
- b. **Satyrium fuliginosa tildeni** Mattoon & Austin, 1998
Syst. W. N. Am. Butterflies (53): 682-683, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.
Original Combination: *Satyrium fuliginosum tildeni*
Type Locality: "California: Siskiyou County; Siskiyou Mountains, forest route 40S01, 1675-2065 m, T47N R9W S19"
Types: Holotype in MGCL.
- c. **Satyrium fuliginosa albolineatum** Mattoon & Austin, 1998
Syst. W. N. Am. Butterflies (53): 684, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.
Original Combination: *Satyrium fuliginosum albolineatum*
Type Locality: "California: Lake County; North Coast Range above 1350 m on ridgeline of Boardman Ridge, on Forest Route 1N02, 3.6-5.0 road miles south of Hull Mountain (T19N R10W S11, 14, 23)"
Types: Holotype in MGCL.
432. **Satyrium semiluna** Klots, 1930
- a. **Satyrium semiluna semiluna** Klots, 1930
Bull. Brooklyn Entomol. Soc. 25(3): 161-162, no. 400, figs. 5 ♂ D, 6 ♂ V (holotype).
Original Combination: *Satyrium fuliginosum semiluna*
Type Locality: "Half Moon Ranch, Moose P. O., Jackson Hole, Wyo." [Teton County, Wyoming]

Types: Holotype in AMNH.

b. *Satyrium semiluna maculadistinctum* Mattoon & Austin, 1998

Syst. W. N. Am. Butterflies (53): 685-686, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V.

Original Combination: *Satyrium fuliginosum maculadistinctum*

Type Locality: "Nevada: Lyon County; Sweetwater Mountains, west slope of East Sister, 2633 m, T8N R24E S28"

Types: Holotype in MGCL.

= ♀ "immaculata" Gunder, 1927

Can. Entomol. 59(12): 283, no. 6, pl. A, fig. 6 ♀ V ("holotype").

Original Combination: *Satyrium fuliginosum* tr. f. *immaculata*

Type Locality: "McGee's Creek on highway, nr. Mammoth, Mono Co., Calif."

Types: "Holotype" in AMNH.

433. *Satyrium behrii* (W. H. Edwards, 1870)

a. *Satyrium behrii behrii* (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(1): 10, 18-19, no. 11.

Original Combination: *Thecla Behrii*

Type Locality: "Lake Mono, California" [Mono County]

Types: Neotype in CMNH, designated by Opler (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(1): 30, fig. 4 ♂ D&V.

= *kali* (Strecker, [1878])

Lepid. Rhop. Het. (14): 129.

Original Combination: *Thecla Kali*

Type Locality: "Arizona"

Types: Holotype in FMNH.

This name likely represents a subspecies-level taxon, but has not been applied by recent workers.

= ♀ "nigroinita" (Gunder, 1924)

Entomol. News 35(5): 154, pl. 2, fig. A ♂ D ("holotype").

Original Combination: *Callipsyche behrii* ab. ♂ *nigroinita*

Type Locality: "Mammoth Camp, Mono County, California"

Types: "Holotype" in AMNH; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 50, fig. 23 ♂ D.

b. *Satyrium behrii columbia* (McDunnough, 1944)

Can. Entomol. 76(9): 190.

Original Combination: *Callipsyche behrii columbia* var. nov.

Type Locality: "Fairview, B. C." [British Columbia]

Types: Holotype (#5474) in CNC.

Scott (1986), Butterflies N. Am.: 365, and A. Warren (2005), Butterflies Ore.: 146, treated this taxon as a synonym of *S. b. behrii*.

c. *Satyrium behrii crossi* (W. D. Field, 1938)

J. Kansas Entomol. Soc. 11(4): 130-131.

Original Combination: *Callipsyche behrii crossi*

Type Locality: "Nederland, Colorado" [Boulder County]

Types: Holotype in USNM.



434. **Satyrrium acadica** (W. H. Edwards, 1862)
- a. **Satyrrium acadica acadica** (W. H. Edwards, 1862)
 Proc. Acad. Nat. Sci. Philad. 14(1/2): 54, 55, no. 2;
 figured by W. H. Edwards (1869), Butterflies N. Am.
 [1](3): pl. Thecla 1, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D.
Original Combination: *Thecla acadica*
Type Locality: "near London" [Ontario]
Types: Holotype in CNC, figured by F. Brown (1970),
 Trans. Am. Entomol. Soc. 96(1): fig. 11 ♂ D&V.
 Species-genus gender conformation is *acadicum*.
- = *souhegan* (Whitney, 1868)
 Proc. Boston Soc. Nat. Hist. 12: 162-163.
Original Combination: *Thecla Souhegan*
Type Locality: "Milford, N. H."; "Souhegan River"
 implied from the formation of the name.
 [Hillsborough County, New Hampshire]
Types: Type(s) may be in MCZ or DCM.
- = *coolinensis* (F. Watson & W. Comstock, 1920)
 Bull. Am. Mus. Nat. Hist. 42(10): 451.
Original Combination: *Strymon acadica coolinensis*
Type Locality: "Coolin, Idaho" [Bonner County]
Types: Holotype in AMNH.
 As detailed by Kondla and Scott (2006), Papilio (n.s.)
 12: 45, the locality given for the holotype was almost
 certainly in error as it is *Satyrrium acadica acadica*.
- = *watrini* (Dufrane, 1939)
 Bull. Anns. Soc. Entomol. Belg. 79(7/8): 289-290.
Original Combination: *Thecla acadica watrini*
Type Locality: "Saskatchewan [sic!], Canada"
 [Saskatchewan]
Types: Holotype may be in MRAC.
 Layberry *et al.* (1998), Butterflies Can.: 130,
 considered this a synonym of *acadica*.
- = ‡"muskoka" (F. Watson & W. Comstock, 1920)
 Bull. Am. Mus. Nat. Hist. 42(10): 450.
Original Combination: *Strymon acadica*
acadica ab. *muskoka*
Type Locality: "Gravenhurst, Muskoka District,
 Ontario, Canada"
Types: "Holotype" in AMNH.
 T. Freeman (1938), Can. Entomol. 70(12): 248,
 discussed this taxon and called it a "valid
 population."
- = ‡"swetti" (F. Watson & W. Comstock, 1920)
 Bull. Am. Mus. Nat. Hist. 42(10): 450-451.
Original Combination: *Strymon acadica*
souhegan ab. *swetti*
Type Locality: "Stony Clove, Greene County,
 New York, altitude 1500 to 2000 feet"
Types: "Holotype" in AMNH.
- b. **Satyrrium acadica montanensis** (F. Watson & W.
 Comstock, 1920)
 Bull. Am. Mus. Nat. Hist. 42(10): 451.
Original Combination: *Strymon acadica montanensis*
Type Locality: "Montana"
Types: Holotype in AMNH.
435. **Satyrrium californica** (W. H. Edwards, 1862)
- a. **Satyrrium californica californica** (W. H. Edwards, 1862)

Proc. Acad. Nat. Sci. Philad. 14(5): 221, 223, no. 3.

Original Combination: *Thecla Californica*

Type Locality: "California"; neotype from "Capell Crk./along 37/Napa Co. Calif." This was interpreted as "Capell Creek, 9 mi. NNE of Napa, Napa Co., California" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 101.

Types: Neotype in CMNH, designated by Opler (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(1): 41-43, fig. 9 ♂ D&V.

Species-genus gender conformation is *californicum*.

= *borus* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 43, no. 15; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 238, fig. 1953 ♂ D&V.

Original Combination: *Thecla Borus*

Type Locality: "au pied des montagnes, surtout en tirant vers l'est"; defined as "Hwy. 70 at Chambers Creek, ca. 6 road miles SW of Belden, North Fork Feather River Canyon, 1850' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 25.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 25, figs. 177 ♂ D, 178 ♂ V.

- b. **Satyrrium californica cygnus** (W. H. Edwards, 1871)
Trans. Am. Entomol. Soc. 3(3/4): 205, 207-208, no. 4.

Original Combination: *Thecla Cygnus*

Type Locality: "Nevada"; neotype from "3 miles southwest of Virginia City, 6700 ft., Storey County, Nevada"

Types: Neotype in CMNH, designated by Opler (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(1): 45-46 fig. 10 ♀ D&V.

- c. **Satyrrium californica obscurafacies** Austin, 1998
Syst. W. N. Am. Butterflies (45): 543-544, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V.

Original Combination: *Satyrrium californicum obscurafacies*

Type Locality: "Nevada: White Pine County; Snake Range, Baker Creek Campground, 2150 m, T13N R69E (unsectioned) on USGS Wheeler Peak, Nev. 15' quadrangle"

Types: Holotype in MGCL.

= *brashor* Kondla & Scott, 2006

Papilio (n.s.) 12: 45, pl. 4, 2nd row right ♂ D&V.

Original Combination: *Satyrrium californica brashor*

Type Locality: "Mica Creek, near Osoyoos, British Columbia"

Types: Holotype in BCPM.

- d. **Satyrrium californica wapiti** M. Fisher, 2006
Papilio (n.s.) 12: 46, pl. 6, 5th row left ♂ D, 6th row left ♂ V (holotype), 5th row left center ♀ D, 6th row left center ♀ V.

Original Combination: *Satyrrium californica wapiti*

Type Locality: "Hwy. 133 near Oliver, 6860 ft., Gunnison Co., Colorado"

Types: Holotype in CSUC.

- = *helenae* M. Fisher, 2009
 Butterflies Colo. 4: 44-46, top left ♂ D, top right ♂ V (holotype), 2nd left ♀ D, 2nd right ♀ V.
Original Combination: *Satyrium (Neosatyrium) californica helenae*
Type Locality: "Colorado: Jefferson Co., Lookout Mountain, 7000 Ft."
Types: Holotype in CSUC.

436. ***Satyrium sylvinus*** (Boisduval, 1852)
 a. ***Satyrium sylvinus sylvinus*** (Boisduval, 1852)
 Annls. Soc. Entomol. Fr. (2)10(2): 287-288, no. 16; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 235, fig. 1920 ♀ D&V.
Original Combination: *Thecla sylvinus*
Type Locality: "Californie"; suggested to be "Region of San Francisco, Cal." by W. Comstock (1913), Bull. Brooklyn Entomol. Soc. 9(2): 32; defined as "vicinity of Queen Lily Campground, near Belden, North Fork Feather River Canyon, elev. 2400', Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 9.
Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 9, figs. 12 ♂ D, 13 ♂ V.
 Species-genus gender conformation is *sylvinum*.
 b. ***Satyrium sylvinus nootka*** M. Fisher, 1998
In: Scott, Papilio (n.s.) 11: 4-5, fig. 9 ♂ D, 10 ♀ D; figured by M. Fisher (2006), Papilio (n.s.) 12: pl. 6, 5th row right center ♂ D, 6th row right center ♂ V (holotype), 5th row right ♀ D, 6th row right ♀ V.
Original Combination: *Satyrium sylvinus nootka*
Type Locality: "Wellington, Vancouver Island, British Columbia, Canada"
Types: Holotype in LACM.
 c. ***Satyrium sylvinus putnami*** (Hy. Edwards, 1877)
 Proc. Calif. Acad. Sci. [1]7(10): 143-144.
Original Combination: *Thecla Putnami*
Type Locality: "Mt. Nebo, Utah" [Juab-Utah counties]
Types: Holotype in AMNH.
 Scudder (1876), Bull. Buff. Soc. Nat. Sci. 3: 109, no. 217, listed [*Thecla*] *putnami* from "Spring Lake, Utah" without description or indication; a *nomen nudum*.
 d. ***Satyrium sylvinus megapallidum*** Austin, 1998
 Syst. W. N. Am. Butterflies (45): 544, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V.
Original Combination: *Satyrium sylvinum megapallidum*
Type Locality: "Nevada: Elko County; Elko, 12th Street at Humboldt River, 1536 m, T34N R55E S14 on USGS Elko East, Nev. 7.5' quadrangle"
Types: Holotype in MGCL.
 e. ***Satyrium sylvinus itys*** (W. H. Edwards, 1882)
 Papilio 2(2): 23.
Original Combination: *Thecla Itys*
Type Locality: "Prescott" [Yavapai County, Arizona]
Types: Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 40, fig. 8 &



- D&V; figured by W. Holland (1898), *Butterfly Book*: 243, pl. 29, fig. 17 ♀ D.
- f. **Satyrrium sylvinus desertorum** (F. Grinnell, 1917)
Can. Entomol. 49(10): 349-350.
Original Combination: *Strymon sylvinus desertorum*
Type Locality: "Oak Creek, Kern County, California"
Types: Holotype in AMNH.
- g. **Satyrrium sylvinus dryope** (W. H. Edwards, 1870)
Trans. Am. Entomol. Soc. 3(1): 10, 19-20, no. 13.
Original Combination: *Thecla Dryope*
Type Locality: "Plain County, Colorado"; corrected to "Placer Co., California" by W. H. Edwards (1870), Trans. Am. Entomol. Soc. 3(2): 194, no. 8; defined as "Santa Clara Co., California" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 49.
Types: Probable holotype in AMNH, as noted by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 49-50, fig. 11 ♂&♀ D&V.
437. **Satyrrium titus** (Fabricius, 1793)
- a. **Satyrrium titus titus** (Fabricius, 1793)
Entomol. Syst. 3(1): 297, no. 130; cited Jones' *Icones* vol. 6, pl. 44, fig. 2.
Original Combination: *H[esperia]. R[urales]. Titus*
Type Locality: "Anglia"; stated to be "probably Newfoundland" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 99; suggested to be "Millhaven Plantation, Screven County, Georgia" by Gatrell (2004), Tax. Rep. Int. Lepid. Surv. 4(6): 7.
Types: Lectotype (#Rh1060) in BMNH, designated by Gatrell (2004), Tax. Rep. Int. Lepid. Surv. 4(6): 2, fig. 3 ♀ V, as "holotype."
I.C.Z.N. *Opinion 503* placed this name on the *Official List of Specific Names in Zoology* as name no. 1605.
= *mopsus* (Hübner, 1818)
Zutr. Samml. exot. Schmett. 1: pl. [24], figs. 135 ♂ D, 136 ♂ V [1813], 24, no. 48 (1818, name given).
Original Combination: *Chrysophanus Mopsus*
Type Locality: "Georgien in Florida"; neotype from "Millhaven Plantation, Screven Co., Georgia."
Types: Type(s) probably lost; neotype in MGCL, designated by Gatrell (2004), Tax. Rep. Int. Lepid. Surv. 4(6): 7, fig. 5 ♀ V.
Rusticus mopsus Hübner, 1808, Erste Zutr. Samml. exot. Schmett.: 6, was described in a document that was suppressed by I.C.Z.N. *Opinion 789*.
- b. **Satyrrium titus winteri** (Gatrell, 2004)
Tax. Rep. Int. Lepid. Surv. 4(6): 10, figs. 23 ♂ D&V (holotype), 24 ♀ D&V, 25 ♂ V, 26 ♀ V.
Original Combination: *Harkenclenus titus winteri*
Type Locality: "Sherborn" [Middlesex County, Massachusetts]
Types: Holotype in MGCL.
- c. **Satyrrium titus campus** (Gatrell, 2004)
Tax. Rep. Int. Lepid. Surv. 4(6): 10-11, figs. 9 ♂ D, 10 ♂ V (holotype); fig. 11 ♂ V, fig. 12 ♂ V, 13 ♂ V, 16 ♀ D&V, 17 ♀ V, 18 ♀ V.
Original Combination: *Harkenclenus titus campus*

- Type Locality:** "Iowa: Shelby County, visc. [sic!] of Defiance"
Types: Holotype in MGCL.
- d. **Satyrrium titus watsoni** (W. Barnes & Benjamin, 1926)
 Bull. South. Calif. Acad. Sci. 25(3): 94, no. 363b.
Original Combination: *Strymon titus* race *watsoni*
Type Locality: "Kerrville, Texas" [Kerr County]
Types: Holotype in USNM.
- e. **Satyrrium titus immaculosus** (W. Comstock, 1913)
 Bull. Brooklyn Entomol. Soc. 8(3): 33, pl. II, fig. A ♂ D, B ♀ D, C ♂ D, D ♀ D, E ♂ V, F ♀ V, G ♂ V, H ♀ V.
Original Combination: *Strymon titus immaculosus*
Type Locality: "Provo, Utah" [Utah County]
Types: Holotype in AMNH; figured by Gatrell (2004), Tax. Rep. Int. Lepid. Surv. 4(6): fig. 21 ♂ D&V.
- f. **Satyrrium titus carrizozo** R. Holland, 2010
 J. Lepid. Soc. 45(2): 170, figs. 3 ♂ D&V, 4 ♂ D&V, 5 ♂ D&V (holotype), 6 ♀ D&V, 7 ♀ D&V, 10 ♂ VHW, 11 ♂ VHW, 12 ♂ VHW (holotype), 13 ♀ VHW, 14 ♀ VHW.
Original Combination: *Satyrrium titus carrizozo*
Type Locality: "Microwave relay site, Carrizo Peak, near Carrizozo, Lincoln Co, NM, 8800"
Types: Holotype in CNC.
- g. **Satyrrium titus occidentalis** (Austin & J. Emmel, 1998)
 Syst. W. N. Am. Butterflies (42): 507, figs. 27 ♂ D, 28 ♂ V (holotype); 29 ♀ D, 30 ♀ V.
Original Combination: *Harkenclenus titus occidentalis*
Type Locality: "Nevada: Pershing County; Humboldt Range, Star Creek Canyon, 5-6 road miles west of Nevada state route 400, 1890 m, T31N R34E S22 on USGS Imlay, Nev. 15' quadrangle"
Types: Holotype in LACM.
438. **Satyrrium edwardsii** (Grote & Robinson, 1867)
 a. **Satyrrium edwardsii edwardsii** (Grote & Robinson, 1867)
 Trans. Am. Entomol. Soc. 1(2): 172-173.
Original Combination: *Thecla edwardsii*
Type Locality: "Canada"; neotype from "Queenstown, Ontario"
Types: Neotype in AMNH, designated by Michener and dos Passos (1942), Am. Mus. Novit. (1210): 4.
 This name was published in synonymy, but is employed under the provisions of Code Article 11.6.1. Grote and Robinson [1869], Trans. Am. Entomol. Soc. 2(2): 179-205, and Scudder (1870), Proc. Boston Soc. Nat. Hist. 13: 273-274, 276, treated this as a name properly described by Grote and Robinson (1867), thus validating the name.
 ‡"fabricii" W. F. Kirby, 1871
 Syn. Cat. diurn. Lepid.: 654, no. 276 bis; cited Scudder (1870), Proc. Boston Nat. Hist. Soc. 13: 272-276; *Thecla falacer* T. Harris (1862), Ins. injur. Veget. (3rd ed.): 276; *Thecla calanus* Grote & Robinson, (1867), Trans. Am. Entomol. Soc. 1(2): 172, 173, and Grote & Robinson, (1868), Trans. Am. Entomol. Soc. 1(4): 324.
Original Combination: *T[hecla]. fabricii*

Type Locality: Not stated.

Types: Location of types not known.

This name was described by indication, but several taxa were implied.

- b. **Satyrrium edwardsii meridionale** Gatrell, 2001
Tax. Rep. Int. Lepid. Surv. 3(2): 5, figs. 2 ♂ V (holotype), 7 ♀ V, 11 ♀ D.

Original Combination: *Satyrrium edwardsii meridionale*

Type Locality: "South Carolina: Aiken County, along south boundary of Aiken State Park"

Types: Holotype in MGCL.

439. **Satyrrium calanus** (Hübner, [1809])

- a. **Satyrrium calanus calanus** (Hübner, [1809])
Samml. exot. Schmett. 1: pl. [100], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Rusticus Calanus*

Type Locality: Not stated; suggested to be "Amer. sept." by W. F. Kirby (1908), in: P. Wytsman, Facsimile ed. Hübner Samml. exot. Schmett. 3 (addit. notes): 71.

Types: Type(s) probably lost.

= *wittfeldii* (W. H. Edwards, 1883)

Can. Entomol. 15(7): 136-137.

Original Combination: *Thecla Wittfeldii*

Type Locality: "Indian River, Florida"; defined as "vicinity of Georgiana, Brevard County, Florida" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 39.

Types: Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 39, fig. ♂ D&V.

- b. **Satyrrium calanus falacer** (Godart, [1824])
Ency. méth. 9(Ins.)(2): (600), 633, no. 58; figured by Boisduval and Le Conte (1833), Hist. Lépid. Amér. sept. (10): pl. 29, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V.

Original Combination: *Polyommatus Falacer*

Type Locality: "environs de Philadelphia, Amérique septentrional" [Philadelphia County, Pennsylvania]

Types: Holotype in MNHP; figured by K. Johnson (1991), J. Lepid. Soc. 45(2): fig. 21.

= *lorata* (Grote & Robinson, 1867)

Trans. Am. Entomol. Soc. 1(2): 171-172.

Original Combination: *Thecla lorata*

Type Locality: "Atlantic District. (Virginia!)"

Types: Syntype in AMNH.

= *inorata* (Grote & Robinson, 1868)

Trans. Am. Entomol. Soc. 1(4): 323-324; cited Boisduval and Le Conte [1833], Hist. Lépid. Amér. sept.(10): pl. 29, figs. 1-5.

Original Combination: *Thecla inorata*

Type Locality: "Atlantic District (Can.! N. Y.! Ga.!)"
syntype from "New York."

Types: Syntype in AMNH.

= *heathii* (Fletcher, 1903)

Proc. & Trans. R. Soc. Can. (2)9(Sect. IV): 211-212, pl. fig. ♀ V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 76, fig. 16 ♀ V.

Original Combination: *Thecla heathii*

Type Locality: "valley of the Long River, a few miles from Cartwright, in southern Manitoba. This spot is

about ten miles north of the boundary of North Dakota and about twenty-five miles north-east of the Turtle Mountains.”

Types: Holotype in USNM.

Fletcher (1904), Can. Entomol. 36(5): 125, pl. ♀, redescribed this taxon. D. Stallings and Turner (1943), Entomol. News 54(5): 131, pl. 2, determined this synonymy.

= *boreale* (Lafontaine, 1969)

Trail & Landscape 3: 151; redescribed by Lafontaine (1970), J. Lepid. Soc. 24(2): 83-86, figs. 1 ♂ V, 2 ♂ D (lectotype), 3 ♀ V, 4 ♀ D, fig. 7 ♂ genitalia.

Original Combination: *Strymon boreale*

Type Locality: Defined as “Britannia Park, Ottawa, Ont.” by Lafontaine (1970), J. Lepid. Soc. 24(2): 84. [Ontario]

Types: Lectotype (#11077) in CNC, designated by Lafontaine (1970), J. Lepid. Soc. 24(2): 84.

Gall (1976), J. Lepid. Soc. 30(3): 214-218, discussed this name and its taxonomic status.

- c. **Satyrium calanus godarti** (W. D. Field, 1938)
J. Kansas Entomol. Soc. 11(4): 129-130.

Original Combination: *Strymon falacer godarti*

Type Locality: “Rosemont, Teller Co., Colorado”

Types: Holotype in USNM.

- d. **Satyrium calanus albidus** Scott, 1981

Papilio (n.s.) 1: 5.

Original Combination: *Satyrium calanus albidus*

Type Locality: “NW Hayden, Routt Co., Colo.”

Types: Holotype in LACM.

Species-genus gender conformation is *albidum*.

440. **Satyrium caryaevorus** (McDunnough, 1942)
Can. Entomol. 74(1): 1.

Original Combination: *Strymon caryaevorus*

Type Locality: “Merivale, Ont.” [Ontario]

Types: Holotype (#5262) in CNC.

Species-genus gender conformation is *caryaevorum*.

441. **Satyrium kingi** (Klots & Clench, 1952)

Am. Mus. Novit. (1600): 2-7, figs. 1A ♂ genitalia, 1D penis, 1G ♀ genitalia, 2A ♂ D (holotype), 2B ♀ D, 2C ♂ V (holotype), 2D ♀ V, 2E ♂ V, 2F ♂ V, 3A ♂ V, 3B ♀ V.

Original Combination: *Strymon kingi*

Type Locality: “Savannah, Georgia” [Chatham County]

Types: Holotype in AMNH.

442. **Satyrium liparops** (Le Conte, 1833) (1793)

- a. **Satyrium liparops floridensis** Gatrell, 2001

Tax. Rep. Int. Lepid. Surv. 3(3): 7-8, figs. 20 ♂ D, 21 ♂ V (holotype); 22 ♀ D, 23 ♀ V.

Original Combination: *Satyrium liparops floridensis*

Type Locality: “Withlacoochee State Forest, Citrus County, Florida”

Types: Holotype in MGCL.

- b. **Satyrium liparops liparops** (Le Conte, 1833) (1793)

In: Boisduval and Le Conte, Hist. Lépid. Amér. sept. (10): 99-100 [1833], (11): pl. 31, figs. 1 ♀ D, 2 ♀ V, 3 larva, 4 pupa [1835].

Original Combination: *T[hecla] Liparops*

Type Locality: "Georgie"; defined as "Screven Co., Georgia" by Klots (1951), Field Guide Butterflies N. Am.: 138; neotype from "Screven Co., Ga, Millhaven Plantation nr. Brier [sic!] Ck." [Briar Creek]

Types: This taxon was described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost. Neotype in MGCL, designated by Gatrell (2001), Tax. Rep. Int. Lepid. Surv. 3(3): 3-4, figs. 11 ♂ D, 12 ♂ V.

Robbins and Lamas (2006), J. Lepid. Soc. 60(2): 88, established *Thecla liparops* Le Conte, 1833, as a *nomen protectum* (Code Article 23.9.2).

= *anacreon* (Fabricius, 1793)
Entomol. Syst. 3(1): 268, no. 34; cited Jones' Icones 6: pl. 5, fig. 4.

Original

Combination: *H[esperia]. R[urales]. Anacreon*

Type Locality: "India"

Types: Location of type(s) not known.

Robbins and Lamas (2006), J. Lepid. Soc. 60(2): 88, established *Hesperia anacreon* Fabricius, 1793, as a *nomen oblitum* (Code Article 23.9.2).

c. **Satyrrium liparops strigosa** (T. Harris, 1862)

Ins. injur. Veget. (3rd ed.): 276.

Original Combination: *Thecla strigosa*

Type Locality: "Blue Hill" [Norfolk County, Massachusetts]

Types: Holotype (#26347) in MCZ.

Species-genus gender conformation is *strigosum*.

= *pruina* (Scudder, 1889)
Butterflies E. U. S. & Can. 2(6): 879-880.

Original Combination: *T[hecla]. [liparops]. [ab.] pruina*

Type Locality: "New England" implied from the title of the book, or possibly near the residence of "Miss Guild," at "Walpole, Massachusetts." [Norfolk County]

Types: "Holotype" may be in MCZ.

d. **Satyrrium liparops fletcheri** (Michener & dos Passos, 1942)

Am. Mus. Novit. (1210): 3.

Original Combination: *Strymon liparops fletcheri*

Type Locality: "Manitoba"; Fletcher's specimens were listed from "Manitoba: Beulah...Cartwright...Aweme...Brandon...Rounthwaite"

Types: Holotype in USNM.

Proposed for *Thecla*

strigosa var. *liparops* (*sensu* Fletcher, 1903, Proc. & Trans. R. Soc. Can. (2)9(Sect. IV): 211-212, pl. fig. ♂ D&V), of which a "cotype" was chosen as holotype.

e. **Satyrrium liparops aliparops** (Michener & dos Passos, 1942)

Am. Mus. Novit. (1210): 3.

Original Combination: *Strymon liparops aliparops*

Type Locality: "Glenwood Springs, Colorado" [Garfield County]

Types: Holotype in AMNH.

443. **Satyrrium auretteum** (Boisduval, 1852)



- a. **Satyrium auretorum auretorum** (Boisduval, 1852)
Annls. Soc. Entomol. Fr. (2)10(2): 288, no. 17; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 235, fig. 1921 ♂ D&V, and W. Holland (1931), Butterfly Book (rev. ed.): pl. 76, fig. 14 ♂ D.
Original Combination: *Thecla auretorum*
Type Locality: "Californie" implied from the title of the paper; defined as "vicinity of Queen Lily Campground, near Belden, North Fork Feather River Canyon, elev. 2400', Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 9.
Types: Holotype in USNM; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): figs. 15 ♂ D, 16 ♂ V.
= *tacita* (Hy. Edwards, 1881)
Papilio 1(4): 54-55.
Original Combination: *Thecla tacita*
Type Locality: "Mendocino Co., Cal." [California]
Types: Holotype in CMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 64, fig. 19 ♂ D.
- b. **Satyrium auretorum spadix** (Hy. Edwards, 1881)
Papilio 1(4): 53.
Original Combination: *Thecla spadix* n. sp.
Type Locality: "Tehachepi [*sic!*] Pass, S. California" [Tehachapi Pass, Kern County]
Types: Holotype in AMNH.
- c. **Satyrium auretorum fumosum** J. Emmel & Mattoni, 1990
J. Res. Lepid. 28(1/2): 102-103, figs. 1, lower row, ♂ D&V (holotype), ♀ D&V.
Original Combination: *Satyrium auretorum fumosum*
Type Locality: "California, Los Angeles County, Malibu Lake"
Types: Holotype in LACM.
444. **Satyrium tetra** (W. H. Edwards, 1870)
Trans. Am. Entomol. Soc. 3(1): 10, 19, no. 12.
Original Combination: *Thecla Tetra*
Type Locality: Not stated; neotype from "Arroyo Bayo, Santa Clara County, California."
Types: Neotype in CMNH, designated by F. Brown and Clench (1970), Trans. Am. Entomol. Soc. 96(1): 36, fig. 6 ♂ D&V.
= *adenostomatis* (Hy. Edwards, 1877)
Proc. Calif. Acad. Sci. [1]7(10): 144-145.
Original Combination: *Thecla Adenostomatis*
Type Locality: "Tehachepi [*sic!*] Pass, Southern California" [Tehachapi Pass, Kern County]
Types: Holotype in AMNH.
‡"adenostoma" Scudder, 1876
Bull. Buff. Soc. Nat. Sci. 3: 111, no. 226.
Original Combination: [*Thecla*] *adenostoma*
This is an unpublished manuscript name credited to Hy. Edwards without description or indication; a *nomen nudum*.
445. **Satyrium saepium** (Boisduval, 1852)
a. **Satyrium saepium saepium** (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 288, no. 18; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 235, fig. 1922 ♂ D&V.

Original Combination: *Thecla saepium*

Type Locality: "Californie" implied from the title of the paper; defined as "Tuolumne County, California" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 33; redefined as "vicinity of Queen Lily Campground, near Belden, North Fork Feather River Canyon, elev. 2400', Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 9.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 10, figs. 18 ♂ D, 19 ♂ V.

= *okanagana* (McDunnough, 1944)
Can. Entomol. 76(9): 190-191.

Original Combination: *Strymon saepium*
okanagana var. nov.

Type Locality: "Peachland, B. C." [British Columbia]

Types: Holotype (#5502) in CNC.

A. Warren (2005), Butterflies Ore.: 154, determined this synonymy.

= *illepida* K. Johnson, 1992
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22)(vol. II): 195, fig. 191O ♀ D&V [actually a ♂]; the ♀ ductus bursae in fig. 227 (supposedly of the holotype) was excluded from the holotype by Robbins and Lamas (2002), Revta. bras. Zool. 19(supl. 1): 204.

Original Combination: *Ignata illepida*

Type Locality: "Sierra Paramo [sic], Bolivia" in error; presumably somewhere in the western United States.

Types: Holotype in BMNH.

Robbins and Lamas (2002), Revta. bras. Zool.

19(supl. 1): 204, figs. 17 ♂ D, 18 ♂ V (holotype), determined the status of this taxon. It is not possible to accurately place this taxon in the synonymy of *S. saepium* at this time.

b. **Satyrium saepium fulvescens** (Hy. Edwards, 1877)
Proc. Calif. Acad. Sci. [1]7(13): 172.

Original Combination: *Thecla saepium* n.
var. *fulvescens*

Type Locality: "Lake Tahoe...Tehachepi [sic!]
Pass...Havilah, Kern County"; defined as "Havilah, Kern County, California" by Austin (1998), Syst. W. N. Am. Butterflies (50): 632.

Types: Lectotype (#5915) in AMNH, designated by Austin (1998), Syst. W. N. Am. Butterflies (50): 632.

c. **Satyrium saepium chalcis** (W. H. Edwards, 1869)
Trans. Am. Entomol. Soc. 2(4): 376.

Original Combination: *Thecla Chalcis*

Type Locality: "California"; neotype from "Isabel Creek, Santa Clara Co., California."

Types: Neotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 33, fig. 5 ♂ D&V.

d. **Satyrium saepium rubrotenebrosum** J. Emmel, T. Emmel & Mattoon, 1998



Syst. W. N. Am. Butterflies (13): 161-162, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.

Original Combination: *Satyrium saepium rubrotenosum*

Type Locality: "California: San Mateo County; San Bruno Mountains"

Types: Holotype in CAS.

- e. ***Satyrium saepium caliginosum*** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butterflies (13): 160-161, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.

Original Combination: *Satyrium saepium caliginosum*

Type Locality: "California: San Luis Obispo County; Baywood Park"

Types: Holotype in LACM.

- f. ***Satyrium saepium chlorophora*** (F. Watson & W. Comstock, 1920)

Bull. Am. Mus. Nat. Hist. 42(10): 452.

Original Combination: *Strymon saepium chlorophora*

Type Locality: "San Diego, California" [San Diego County]

Types: Holotype in AMNH; a paratype figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 65, fig. 17 ♂ V.

- g. ***Satyrium saepium subaridum*** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butterflies (13): 159-160, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Satyrium saepium subaridum*

Type Locality: "California: Inyo County; Hunter Mountain east of Nelson Range; small stream and meadow 0.4 air mile [sic!] southeast of Peak 7107 on 1951 U.S.G.S. Marble Canyon quadrangle, 6,800' elevation"

Types: Holotype in LACM.

- h. ***Satyrium saepium obscurofuscum*** Austin, 1998

Syst. W. N. Am. Butterflies (45): 545, figs. 29 ♂ D, 30 ♂ V (holotype); 31 ♀ D, 32 ♀ V.

Original Combination: *Satyrium saepium obscurofuscum*

Type Locality: "Nevada: Elko County; Jarbidge Mountains, road to Success Mine, 0.5 miles south of Bonanza Gulch, 2423 m, T46N R58E S28 on USGS Jarbidge, Nev.-Idaho 15' quadrangle"

Types: Holotype in MGCL.

- i. ***Satyrium saepium latalinea*** Austin & Savage, 1998

Syst. W. N. Am. Butterflies (48): 613-614, 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Satyrium saepium latalinea*

Type Locality: "Utah: Washington County; Pine Valley Mountains, Leeds Creek, 5.3-7.2 (road) miles west of Leeds, 1525-1710 m...USGS New Harmony, 15 minute quadrangle, T40S R14W S16, 21, 22"

Types: Holotype in MGCL.

- j. ***Satyrium saepium provo*** (F. Watson & W. Comstock, 1920)

Bull. Am. Mus. Nat. Hist. 42(10): 452.

Original Combination: *Strymon saepium provo*

Type Locality: "Provo, Utah" [Utah County]

Types: Holotype in AMNH; a paratype figured by W. Holland (1931), *Butterfly Book* (rev. ed.): pl. 65, fig. 16 ♂ D.



Subgenus **Fixsenia** Tutt, 1907

Nat. Hist. Brit. Butterflies 2(4/5): 142. Type-species: *Thecla herzi* Fixsen, 1887, in: Romanoff, Mém. Lépid. 3: 279-280, pl. 13, fig. 4, by original designation. The following synonymy is derived from Clench (1979), J. Lepid. Soc.. 32(4): 277-281.

- = ‡*Leechia* Tutt, 1907
Nat. Hist. Brit. Butterflies 2(4/5): 142. Type-species: *Thecla thalia* Leech, [1893], *Butterflies China Japan Korea* (2)(text pt. 3): 367; (plate pt. 3/4): pl. 30, fig. 15, by original designation. Preoccupied by *Leechia* South, 1901, Trans. Entomol. Soc. Lond. (4)1901(4): 400. I.C.Z.N. *Opinion 503* placed this name on the *Official Index of Rejected and Invalid Specific Names in Zoology* as name no. 1237.
- = *Strymonidia* Tutt, 1908
Nat. Hist. Brit. Butterflies 2(25): 483. Type-species: *Thecla thalia* Leech, [1893], *Butterflies China Japan Korea* (2)(text pt. 3): 367; (plate pt. 3/4): pl. 30, fig. 15, as a replacement name. Proposed to replace *Leechia* Tutt, 1907 (Code Article 60.3, 67.8). I.C.Z.N. *Opinion 541* placed this name on the *Official List of Generic Names in Zoology* as name no. 1333.
- = *Euristrymon* Clench, 1961
In: P. Ehrlich and A. Ehrlich, *How Know Butterflies*: 184, 212. Type-species: "*Thecla favonius*" J. E. Smith, 1797, in: Smith & Abbot, *Ins. Georgia* 1: 27, pl. 14 (= *Papilio favonius*), by original designation.

446. **Satyrrium favonius** (J. E. Smith, 1797)

- a. **Satyrrium favonius ontario** (W. H. Edwards, 1868)
Trans. Am. Entomol. Soc. 2(2): 209-210; figured by W. H. Edwards (1869), *Butterflies N. Am.* [1](4): pl. Thecla 2, figs. 1 ♂ D, 2 ♂ V (holotype).
Original Combination: *Thecla Ontario*
Type Locality: "Port Stanley, Ontario"
Types: Holotype in CNC; figured by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): fig. 23 ♂ D&V. Robbins (1994), *Am. Butterflies* 2(3): 29-30, determined that *ontario* and *favonius* are conspecific.
- b. **Satyrrium favonius favonius** (J. E. Smith, 1797)
In: Smith & Abbot, *Ins. Georgia* 1: 27-28, pl. 14, figs. ♂ D, ♀ D, ♀ V, larva, pupa.
Original Combination: *Papilio Favonius*
Type Locality: "Georgia" implied from the notes to John Abbot's original drawing.
Types: Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost.
- c. **Satyrrium favonius autolytus** (W. H. Edwards, 1871)
Trans. Am. Entomol. Soc. 3(3/4): 266, 271, no. 8.
Original Combination: *Thecla Autolytus*
Type Locality: "Dallas, Texas" [Dallas County]
Types: Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 73, fig. 24 ♂ D&V.
- d. **Satyrrium favonius violae** (D. Stallings & Turner, 1947)

Pan-Pac. Entomol. 23(3): 119-120.

Original Combination: *Strymon ontario violae*

Type Locality: "Folsom, N. Mexico...elevation 5600 ft." [Union County, New Mexico]

Types: Holotype and allotype in PMNH.

447. **Satyrrium ilavia** (Beutenmüller, 1899)

J. N. Y. Entomol. Soc. 7(4): 254.

Original Combination: *Thecla ilavia*

Type Locality: "Texas"

Types: Syntypes in AMNH, probably also CMNH. A specimen loaned to W. Holland by Beutenmüller was figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 65, fig. 15 ♂ D.

Robbins (1994), Am. Butterflies 2(3): 30, determined that this is a species-level taxon.

= *mirabelle* (W. Barnes, 1900)

Can. Entomol. 32(2): 42, 43-44.

Original Combination: *Thecla Mirabelle*

Type Locality: "Utah" apparently in error.

Types: Holotype in USNM.

448. **Satyrrium polingi** (W. Barnes & Benjamin, 1926)

a. **Satyrrium polingi polingi** (W. Barnes & Benjamin, 1926)
Bull. South. Calif. Acad. Sci. 25(3): 94, no. 354.1.

Original Combination: *Strymon polingi*

Type Locality: "Sunny Glen Ranch, near Alpine, Brewster Co., Texas"

Types: Holotype in USNM.

b. **Satyrrium polingi organensis** Ferris, 1980

J. Lepid. Soc. 34(2): 221-223, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V, 14 ♂ VHW (holotype).

Original Combination: *Fixsenia polingi organensis*

Type Locality: "Organ Mts., Doña Ana Co., New Mexico...Finley Canyon, W Slope Organ Mts....ca. 6500 ft. (1980m)"

Types: Holotype in MGCL.

Genus **Phaeostrymon** Clench, 1961

In: P. Ehrlich and A. Ehrlich, How Know Butterflies: 179, 190. Type-species: *Thecla alcestis* W. H. Edwards, 1871, Trans. Am. Entomol. Soc. 3(3/4): 266, 271-272, no. 9, by original designation.

449. **Phaeostrymon alcestis** (W. H. Edwards, 1871)

a. **Phaeostrymon alcestis alcestis** (W. H. Edwards, 1871)
Trans. Am. Entomol. Soc. 3(3/4): 266, 271-272, no. 9.

Original Combination: *Thecla Alcestis*

Type Locality: "Dallas, Texas" [Dallas County]

Types: Holotype in CMNH, figured by W. Holland (1898), Butterfly Book: pl. 29, fig. 14 ♀ D, and F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): fig. 2 ♀ D&V.

b. **Phaeostrymon alcestis osleri** (Dyar, 1904)

J. N. Y. Entomol. Soc. 12(1): 40.

Original Combination: *Thecla osleri*

Type Locality: "Tucson, Arizona" [Pima County]

Types: Holotype (#7726) in USNM; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 65, fig. 13 ♂ D.



Genus **Ocaria** Clench, 1970

J. Lepid. Soc. 24(1): 56, fig. 1 ♂ genitalia. Type-species: *Thecla ocrisia* Hewitson, 1868, Descr. new Spec. Lycaenidae: 5-6, no. 29, by original designation.

- = ‡*Galba* K. Johnson, 1992
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22)(vol. I): i, 104, name mentioned; (vol. II): 167-168, figs. 88, 89, 183, 184. Type-species: *Galba elvira* K. Johnson, 1992, Rep. Mus. Nat. Hist., Univ. Wisc.: 168-169, figs. 88, 183, by original designation. Preoccupied by *Galba* Schrank 1803.
- = *Variegatta* K. Johnson, 1992
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22)(vol. I): i, 104, name mentioned; (vol. II): 180-181, figs. 191, 213, 214. Type-species: *Thecla elongata* Hewitson, 1870, Equatorial Lepid. Buckley (4): 60, no. 108, by original designation.
- = *Lamasa* K. Johnson, 1992
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22)(vol. I): i, 104, name mentioned; (vol. II): 183. Type-species: *Thecla calesia* Hewitson, 1870, Equatorial Lepid. Buckley (4): 67-68, no. 121, by original designation.
- = *Arases* K. Johnson, 1992
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22)(vol. I): i, 104, name mentioned; (vol. II): 196-197, figs. 191P, 191Q, 191R, 191S, 228, 229, 230, 231. Type-species: *Arases clenchi* K. Johnson, 1992, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22)(vol. II): 197 (a replacement name for *Thecla sesara* Godman & Salvin, 1887, Biol. centr.-amer., Lepid. Rhop. 2(61): 90, footnote), by original designation.

450. **Ocaria ocrisia** (Hewitson, 1868)

Descr. new Spec. Lycaenidae: 5-6, no. 12; figured by Hewitson (1869), Ill. diurn. Lepid. Lycaenidae 2(4): pl. 48, figs. 235 ♀ D, 236 ♂ D&V.

Original Combination: *Thecla Ocrisia*

Type Locality: "Ecuador"

Types: Holotype in BMNH.

Robbins (1989), *in*: Ferris, Mem. Lepid. Soc. (3): 28, stated "there are several species lumped under the name *ocrisia*..."
Records from Texas may or may not represent *O. ocrisia*.

- = *zora* (Hewitson, 1869)
Ill. diurn. Lepid. Lycaenidae: 1(4): 134-135, no. 222; 2(4): pl. 53, figs. 304 ♀ V, 305 ♀ D.

Original Combination: *Thecla Zora*

Type Locality: "Amazon (Pará)" [Brazil]

Types: Holotype in BMNH.

- = *peruviana* Ershov, 1876
Trudy Russk. Entomol. Obshch. 10(1): 57-58, pl. 1, fig. 4 ♂ D&V.

Original Combination: *Thecla Peruviana*

Type Locality: "Peruvio"

Types: Type(s) probably in ZIN.

- = *lita* (Hayward, 1949)
Acta zool. Lilloana 8: 570-571.
Original Combination: *Thecla ocrisia* subsp. *lita* nov.
Type Locality: "Tucumán" [Argentina]
Types: Holotype in IMLA.

Genus **Chlorostrymon** Clench, 1961

In: P. Ehrlich and A. Ehrlich, How Know Butterflies: 179, 189. Type-species: *Thecla telea* Hewitson, 1868, Descr. new Spec. Lycaenidae: 4-5, no. 10, by original designation.



451. **Chlorostrymon simaethis** (Drury, 1773)
 a. **Chlorostrymon simaethis simaethis** (Drury, 1773)
 Illustr. Nat. Hist. 1: 3: pl. 1, fig. 3 ♂ D, 3a ♂ V (1770); 2: index (1773, name given).
Original Combination: *Papilio Simaethis*
Type Locality: "St. Christopher's" [St. Kitts, Saint Kitts and Nevis]
Types: Type(s) lost.
 ‡"lycus" Skinner, 1898
 Syn. Cat. N. Am. Rhop.: 48, no. 287.
Original Combination: [*Thecla*] *Lycus* "Hübner"
 This name was listed as a synonym of *simaethis* without a description or indication; a *nomen nudum*.
 b. **Chlorostrymon simaethis sarita** (Skinner, 1895)
 Entomol. News 6(4): 112-113.
Original Combination: *Thecla sarita*
Type Locality: "Comal County, Texas"
Types: Holotype (#7043) in ANSP.
452. **Chlorostrymon maesites** (Herrich-Schäffer, 1865)
 Corresp-BI. zool.-min. Ver. Regensburg 18(11/12): 165, no. 7.
Original Combination: [*Thecla*] *maesites*
Type Locality: "Cuba" implied from the title of the paper.
Types: Location of type(s) not known.
453. **Chlorostrymon telea** (Hewitson, 1868)
 Descr. new Spec. Lycaenidae: 4-5, no. 10; figured by Hewitson (1873), Ill. diurn. Lepid. Lycaenidae 2(5): pl. 57, figs. 350 ♂ V, 351 ♂ D.
Original Combination: *Thecla Telea*
Type Locality: "Amazon"
Types: Holotype in BMNH; ♂ genitalia of the holotype figured by K. Johnson (1989), J. Lepid. Soc. 43(2): fig. 5E. K. Johnson (1989), J. Lepid. Soc. 43(2): 127, 134-135, determined that *C. telea* and *C. maesites* are species-level taxa.

Genus **Cyanophrys** Clench, 1961

In: P. Ehrlich and A. Ehrlich, How Know Butterflies: 201, 211. Type-species: *Strymon agricolor* Butler & H. Druce, 1872, Cist. Entomol. 1(5): 105-106, by original designation.

- = *Plesiocyanophrys* K. Johnson, Eisele & MacPherson, 1993
 Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (39): 2, 3.
 Type-species: *Thecla goodsoni* Clench, 1946, Entomol. 79(999): 186, by original designation.
- = *Antephrys* K. Johnson, Eisele & MacPherson, 1993
 Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (39): 2, 3-4.
 Type-species: *Antephrys prestoni* K. Johnson, Eisele & MacPherson, 1993, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (39): 4-5, pl. 9, fig. 2, by original designation.
- = *Apophrys* K. Johnson & Le Crom, 1997
 Revta. Thecl. Colomb. 1(2): 17. Type-species: *Hesperia herodotus* Fabricius, 1793, Entomol. Syst. 3(1): 286-287, no. 100, by original designation.
- = *Mesocyanophrys* K. Johnson & Le Crom, 1997

Revta. Thecl. Colomb. 1(2): 17. Type-species: *Thecla lycimna* Hewitson, 1868, Descr. new Spec. Lycaenidae: 33, no. 70 (= *Thecla acaste* Prittwitz, 1865, Stettiner Entomol. Ztg. 26(4/5): 318; synonym), by original designation.

‡"Mesocyanophrys" d'Abrera, 1995

Butterflies Neotrop. Reg. VII: 1144.

‡"Paracyanophrys" d'Abrera, 1995

Butterflies Neotrop. Reg. VII: 1144, 1146.

‡"Mesacyanophrys" d'Abrera, 1995

Butterflies Neotrop. Reg. VII: 1144.

454. Cyanophrys goodsoni (Clench, 1946)

Entomol. 79(999): 186-187, no. 8.

Original Combination: *Thecla goodsoni*

Type Locality: "Tegucigalpa, Honduras"

Types: Holotype in BMNH.

455. Cyanophrys herodotus (Fabricius, 1793)

Entomol. Syst. 3(1): 286-287, no. 100; cited Jones' Icones 6: pl. 18, fig. 1; figured by Donovan (1800), Egit. Ins. India: pl. [39], fig. 2 (a copy from Jones' Icones).

Original Combination: *H[esperia]. R[urales]. Herodotus*

Type Locality: "Indiis"

Types: Type(s) probably lost; based on specimens figured by Jones.

Robbins (2004), in: Lamas, Atlas of Neotrop. Lepid. Chkfst: Part 4A: 125, presented an extensive putative synonymy for this species, some of which is not reproduced here; a neotype designation for *herodotus* is needed to put this synonymy into context.

= *lucania* (Hewitson, 1868)

Descr. new Spec. Lycaenidae: 33, no. 71.

Original Combination: *Thecla Lucania*

Type Locality: "Mexico"

Types: Holotype in BMNH.

Hewitson (1877), Ill. diurn. Lepid. Lycaenidae 1(7): 205, no. 423, determined this synonymy.

= *sicrana* (E. D. Jones, 1912)

Proc. Zool. Soc. Lond. 1912(4): 896, pl. 97, fig. 3 ♂ D&V.

Original Combination: *Thecla sicrana*

Type Locality: "Castro, Paraná, Brazil"

Types: Holotype in BMNH.

= *detesta* Clench, 1946

Entomol. 79(998): 155, no. 5.

Original Combination: *Thecla detesta*

Type Locality: "Sta. Fe de Bogota, Colombia"

Types: Holotype in BMNH.

= *amyntoides* K. Johnson & Le Crom, 1997

Revta. Thecl. Colomb. 1(3): 4, text fig. 6, ♂&♀ genitalia, photoplate III(a), figs. I ♂ V, J ♀ V.

Original Combination: *Cyanophrys amyntoides*

Type Locality: "Bolivia, Sara-Province, Buena Vista"

Types: Holotype in CMNH.

= *descimoni* K. Johnson & Le Crom, 1997

Revta. Thecl. Colomb. 1(3): 4, text fig. 5, ♀ genitalia, photoplate III(a), fig. K ♀ V (holotype).

Original Combination: *Cyanophrys descimoni*

Type Locality: "Ecuador, Guayas Province, Parque Nacional de Salado"

- Types:** Holotype in MGCL.
- = *brazilensis* K. Johnson & Kruse, 1997
Revta. Thec. Colomb. 1(5): 21, text fig. 1D ♀ genitalia, photoplate IV(b), fig. A ♀ D&V (holotype).
Original Combination: *Plesiocyanophrys brazilensis*
Type Locality: "Brazil, Mato Grosso State, Rio Pardo"
Types: Holotype in AMNH.
- = *sullivanii* K. Johnson & Kruse, 1997
Revta. Thec. Colomb. 1(5): 26, text fig. 2E ♂&♀ genitalia, photoplate IB(b), figs. E ♂ D&V (holotype), F ♀ D&V.
Original Combination: *Cyanophrys sullivanii*
Type Locality: "Nicaragua, Managua Department"
Types: Holotype in AMNH.
- ‡"circumcyanophrys" d'Abrera, 1995
Butterflies Neotrop. Reg. VII: 1144, figs. ♂ D, ♀ V.
Original Combination: *Cyanophrys circumcyanophrys*
Name proposed without description; a *nomen nudum*.
- ‡"amyntoides" d'Abrera, 1995
Butterflies Neotrop. Reg. VII: 1144, fig. ♂ D.
Original Combination: *Cyanophrys amyntoides*
Name proposed without description; a *nomen nudum*.
- ‡"sicranoides" d'Abrera, 1995
Butterflies Neotrop. Reg. VII: 1144, fig. ♂ D.
Original Combination: *Cyanophrys sicranoides*
Name proposed without description; a *nomen nudum*.
- ‡"braziliensis" d'Abrera, 1995
Butterflies Neotrop. Reg. VII: 1146, 1148, fig. ♀ D.
Original Combination: [*Cyanophrys*] *braziliensis*
Name proposed without description; a *nomen nudum*.
456. **Cyanophrys miserabilis** (Clench, 1946)
Entomol. 79(998): 156-157, no. 6.
Original Combination: *Thecla miserabilis*
Type Locality: "Rincon, Guerrero, Mexico, 2800 ft."
Types: Holotype in BMNH.
- = *simplex* Clench, 1981
Bull. Allyn Mus. (64): 2-5, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5a-c, ♂ genitalia, 6, 6a ♀ female genitalia.
Original Combination: *Callophrys (Cyanophrys) miserabilis simplex*
Type Locality: "Ajijic, 6000 ft. [ca. 1850 m], Jalisco, Mexico"
Types: Holotype (# 23125) in CMNH.
- = *eupatorium* K. Johnson & Kruse, 1997
Revta. Thecl. Colomb. 1(5): 29, text fig. 2H.
Original Combination: *Cyanophrys eupatorium*
Type Locality: "Mexico, Nuevo Leon State, Cola de Caballo"
Types: Holotype in TAMU.

Genus **Callophrys** Billberg, 1820

Enum. Ins. Mus. Billb.: 80. Type-species: *Papilio rubi* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 483, no. 154, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 132, no. 202.

Subgenus **Callophrys** Billberg, 1820

There is no consensus on the number of Nearctic species in this subgenus (e.g., Austin (1981), J. Res. Lepid. 19(4): 242, Scott and Justice (1983), J. Res. Lepid. 20(2): 81-85, Scott (1986), Butterflies N. Am.: 376-379, Austin (1998), Syst. W. N. Am. Butterflies (49): 619-628, J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (13): 164-165, A. Warren (2005), Butterflies Ore.: 114-125). The following arrangement is partly based on my own field experience in a critical geographical region.

- = ‡*Lycus* Hübner, [1819]
Verz. bekannt. Schmett. (5): 74. Type-species: *Papilio rubi* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 483, no. 154, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 210, no. 651. Preoccupied by *Lycus* Fabricius, 1787, Mantissa Ins. 1: 163.
- = ‡*Licus* Hübner, 1823
Zutr. Samml. exot. Schmett. 2: [7]. Type-species: *Papilio rubi* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 483, no. 154, by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 52. A junior objective synonym of *Callophrys*, and possibly an incorrect subsequent spelling of *Lycus* Hübner, [1819].

457. **Callophrys affinis** (W. H. Edwards, 1862)

This species was reviewed by Gorelick (2005), J. Lepid. Soc. 59(4): 181-190.

- a. **Callophrys affinis washingtonia** Clench, 1944
Bull. Mus. Comp. Zool. 94(6): 219, 225-226.
Original Combination: *Callophrys affinis washingtonia*
Type Locality: "Alta Lake, Washington" [Okanogan County]
Types: Holotype (#26259) in MCZ.
- b. **Callophrys affinis affinis** (W. H. Edwards, 1862)
Proc. Acad. Nat. Sci. Philad. 14(5): 221, 223-224, no. 5.
Original Combination: *Thecla Affinis*
Type Locality: "Utah"; defined as "Silver Lake, Utah" by Clench (1944), Bull. Mus. Comp. Zool. 94(6): 225; corrected to "vicinity of Fort Bridger, Wyoming" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 63, 65. [Uinta County, Wyoming]
Types: Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 65, fig. 20 ♂ D&V.
- c. **Callophrys affinis homoperplexa** W. Barnes & Benjamin, 1923
Contrib. Nat. Hist. Lepid. N. Am. 5(2): 68-69.
Original Combination: *Callophrys apama* race *homoperplexa*
Type Locality: "Golden" [Jefferson County, Colorado].
Types: Holotype in USNM.
- d. **Callophrys affinis albipalpus** Gorelick, 2005
J. Lepid. Soc. 59(4): 188, figs. 9, 14 ♂ V (holotype), 13 ♀ V.
Original Combination: *Callophrys affinis albipalpis*
Type Locality: "New Mexico State University's Montgomery Biological Research Laboratory...10 km north of Ruidoso, 2134m, Sacramento Mountains" [Lincoln County, New Mexico]

- Types:** Holotype in LACM.
- e. **Callophrys affinis apama** (W. H. Edwards, 1882)
Papilio 2(8): 137-138.
Original Combination: *Thecla Apama*
Type Locality: "Fort Grant and in Graham Mountains, Arizona" implied from the title of the paper. [Graham County]
Types: Lectotype in CMNH, designated by F. M. Brown, 1970, Trans. amer. ent. Soc. 96(1): 69, fig. 22 ♂ D&V.
458. **Callophrys perplexa** W. Barnes & Benjamin, 1923
- a. **Callophrys perplexa oregonensis** Gorelick, [1970]
J. Res. Lepid. 7(2): 101-103.
Original Combination: *Callophrys dumetorum oregonensis*
Type Locality: "Kusshi Creek, 2220', Yakima County, Washton" [Washington]
Types: Holotype in CAS.
- b. **Callophrys perplexa perplexa** W. Barnes & Benjamin, 1923
Contrib. Nat. Hist. Lepid. N. Am. 5(2): 65.
Original Combination: *Callophrys dumetorum* race *perplexa*
Type Locality: "San Diego, California" [San Diego County]
Types: Holotype in USNM.
- c. **Callophrys perplexa superperplexa** J. Emmel, T. Emmel & Mattoon, 1998
Syst. W. N. Am. Butterflies (13): 166, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V.
Original Combination: *Callophrys perplexa superperplexa*
Type Locality: "California: Inyo County; Big Pine Creek, 6500' elevation, east slope of Sierra Nevada"
Types: Holotype in LACM.
The status of this taxon as a subspecies of *C. perplexa* is tentative; it may be conspecific with *C. sheridanii*.
459. **Callophrys dumetorum** (Boisduval, 1852)
Annls. Soc. Entomol. Fr. (2)10(2): 291, no. 22; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 236, fig. 1926 ♀ D&V.
Original Combination: *Thecla dumetorum*
Type Locality: "Californie" implied from the title of the paper; defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 11.
Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 11, figs. 30 ♀ D, 31, ♀ V.
The lectotype of this taxon is a specimen of what had, before this designation, been called *Callophrys viridis* (W. H. Edwards, 1862). As discussed by A. Warren (2005), *C. dumetorum* and *C. sheridanii* are apparently conspecific.
= *viridis* (W. H. Edwards, 1862)
Proc. Acad. Nat. Sci. Philad. 14(5): 221, 223, no. 4.
Original Combination: *Thecla Viridis*

Type Locality: "California"; defined as "San Francisco, California" by Clench (1944), Bull. Mus. Comp. Zool. 94(6): 227. [San Francisco County]

Types: Lectotype in CMNH, designated by F. Brown and Clench (1970), *in*: F. Brown, Trans. Am. Entomol. Soc. 96(1): 67, fig. 21 ♂ D&V.

460. **Callophrys sheridanii** (W. H. Edwards, 1877)
- a. **Callophrys sheridanii pseudodumetorum** J. Emmel, T. Emmel & Mattoon, 1998
Syst. W. N. Am. Butterflies (13): 165, figs. 21 ♂ D, 22 ♂ [actually a ♀] V (holotype); 23 ♀ D, 24 ♀ V.
Original Combination: *Callophrys perplexa pseudodumetorum*
Type Locality: "California: Trinity County; Ruth Reservoir, in the North Coast Ranges"
Types: Holotype in LACM.
This taxon is apparently conspecific with *C. sheridanii*, as implied by A. Warren (2005), Butterflies Ore.: 118-119.
- b. **Callophrys sheridanii newcomersi** Clench, 1963
J. Res. Lepid. 2(2): 154.
Original Combination: *Callophrys (Callophrys) sheridanii newcomersi*
Type Locality: "Mill Creek, 1800 ft., Yakima Co., Washington"
Types: Holotype in CMNH.
- c. **Callophrys sheridanii lemberti** Tilden, 1963
J. Res. Lepid. 1(4): 292, 294, 296, fig. 2, bottom ♂ D&V.
Original Combination: *Callophrys lemberti*
Type Locality: "West above Tioga Pass, Yosemite National Park, Calif....about 1 mile, where the Gaylor Lakes Trail reaches its highest point before dropping down to Gaylor Basin, thence southerly along the ridge to rock ou[t]crops, about two to three hundred yards" [Tuolumne County]
Types: Holotype in CAS.
- d. **Callophrys sheridanii interrupta** Austin, 1998
Syst. W. N. Am. Butterflies (49): 621, figs. 1 third row left ♂ D, 2 third row left ♂ V (holotype), 1 third row middle ♂ D, 2 third row middle ♂ V, 1 third row right ♂ D, 2 third row right ♂ V, 1 fourth row left ♀ D, 2 fourth row left ♀ V, 1 fourth row middle ♀ D, 2 fourth row middle ♀ V, 1 fourth row right ♀ D, 2 fourth row right ♀ V.
Original Combination: *Callophrys comstocki interrupta*
Type Locality: "Nevada: Churchill County; south end of Stillwater Mountains (= Sand Springs Range), U.S. route 50, 5.5-5.6 miles west of Frenchman, 1660 m, T16N R32E S11 on USGS Frenchman 7 1/2' quadrangle"
Types: Holotype in MGCL.
- e. **Callophrys sheridanii comstocki** Henne, 1940
Bull. South. Calif. Acad. Sci. 39(1): 71-72.
Original Combination: *Callophrys comstocki*
Type Locality: "Providence Mts., San Bernardino County, California"
Types: Holotype in LACM.
- f. **Callophrys sheridanii paradoxa** Scott, 1986
Butterflies N. Am.: 379, no. 345, pl. 39, fig. 345g.
Original Combination: [*Callophrys sheridanii*] *paradoxa*

Type Locality: “lowland w Colo., and E Utah”; lectotype from “Paradox Can. (CR Y-11, about 4-5 air mi. & 5-6 air mi. W Uravan), 5100', Dolores River, Montrose Cp. Colo.”

Types: Lectotype in CSUC, designated by M. Fisher and J. Scott (2008), *Papilio* (n.s.) 18: 55-56, pl. 4, third row left ♂ D, fourth row left ♂ V.

The name *paradoxa* was first proposed as a *nomen nudum* by Stanford and Opler (1993), *Atlas W. USA Butterflies*: 150. Scott (1986) provided a brief description for this taxon, but without designating types; possibly a *nomen nudum*. In any case, this was rectified by Scott & Fisher (2008), *Papilio* (n.s.) 18: 55-57.

g. *Callophrys sheridanii neoperplexa* W. Barnes & Benjamin, 1923

Contrib. Nat. Hist. Lepid. N. Am. 5(2): 67.

Original Combination: *Callophrys sheridanii* race *neoperplexa*

Type Locality: “Eureka, Utah” [Juab County]

Types: Holotype in USNM.

h. *Callophrys sheridanii sheridanii* (W. H. Edwards, 1877) (emended)

In: Carpenter, Field & Forest 3(3): 48.

Original Combination: *Thecla Sheridonii*

Type Locality: “Big Horn Mountains...about 8000 elev.”; defined as “near Sheridan, Wyoming” by F. Brown (1970), *Trans. Am. Entomol. Soc.* 96(1): 63. [Sheridan County, Wyoming]

Types: Lectotype in CMNH, designated by F. Brown (1970), *Trans. Am. Entomol. Soc.* 96(1): 63, fig. 19 ♀ D&V.

The specific name is a patronym of Civil War General P. H. Sheridan as mentioned in the text, thus the emendation (Code Articles 19.2, 32.2.2, 33.2).

i. *Callophrys sheridanii sacramento* Scott, 2006
Papilio (n.s.) 12: 46-47, pl. 4, 2nd row, right center ♂ D&V (holotype).

Original Combination: *Callophrys sheridanii sacramento*

Type Locality: “1 mi. E. Cloudcroft, Otero Co. New Mex.” [New Mexico]

Types: Holotype in BMNH.

Subgenus *Mitoura* Scudder, 1872 (emended)

4th Ann. Rep. Peabody Acad. Sci. (1871): 52, errata. Type-species: *Thecla smilacis* Boisduval & Le Conte, [1835], *Hist. Lépid. Amér. sept.* (11): 107-108, pl. 33, figs. 5-8 (= *Lycus gryneus* Hübner, [1819], *Verz. bekannt. Schmett.* (5): 74; subspecies), by original designation. Spelled “Mitouri” by Scudder (1872: 52), an incorrect original spelling; the name was corrected in the errata. Spelled “Mitura” by W. F. Kirby [1874], *Zool. Rec.* 9(1872)(Ins.): 350; an unjustified emendation or incorrect subsequent spelling.

461. *Callophrys gryneus* (Hübner, [1819])

There is no easy way to accommodate the diverse opinions on the specific arrangement in this complex (e.g., K. Johnson (1978), *J. Lepid. Soc.* 32(1): 3-19, Scott (1986), *Butterflies N. Am.*: 373-374, Opler (1999), *Field Guide W. Butterflies*: 217-219, A. Warren (2005), *Butterflies Ore.*: 125-133).

a. *Callophrys gryneus sweadneri* (F. Chermock, 1945)

Can. Entomol. 76(11): 216.

Original Combination: *Mitoura sweadneri*

Type Locality: "St. Augustine, Florida" [St. Johns County]

Types: Location of holotype not known, possibly in CMNH.

b. *Callophrys gryneus smilacis* (Boisduval & Le Conte, [1835])

Hist. Lépid. Amér. sept. (11): 107-108, pl. 33, figs. 5 ♂ D, 6 ♀ V, 7 larva, 8 pupa.

Original Combination: *T[hecla]. Smilacis*

Type Locality: "Géorgie"; neotype from "nr. Fort Pulaski, Chatham County, GA."

Types: Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost. Neotype in MGCL, designated by Gatrell (2001), Tax. Rep. Int. Lepid. Surv. 3(4): 5, figs. 27 ♂ D, 28 ♂ V.

c. *Callophrys gryneus gryneus* (Hübner, [1819])

Verz. bekannt. Schmett. (5): 74, no. 732; cited *Papilio damon* Stoll, 1781, Uitl. Kapellen 4(32): pl. 390, figs. C, D; (34): 249 (index).

Original Combination: *L[ycus]. Gryneus*

Proposed to replace *Papilio damon* Stoll, 1781, preoccupied, with the same data (Code Article 60.3).

= *†damon* (Stoll, 1781)

Uitl. Kapellen 4(32): 208, pl. 390, figs. C ♀ D, D ♀ V; (34): 249 (index).

Original

Combination: *Pap[ilio]. Pleb[ejus] Ruralis Damon*

Type Locality: "Virginien" "Virginie"; stated to be "Rappahanock Co., Virginia" by K. Johnson (1978), J. Lepid. Soc. 32(1): 14; neotype from "Aiken County, South Carolina."

Types: Type(s) probably lost. Gatrell (2001), Tax. Rep. Int. Lepid. Surv. 3(4): 3, figs. 29 ♂ D, 30 ♂ V, designated a neotype, in MGCL, for "*Mitoura grynea*"; by this it is inferred that he implied *Papilio damon* Cramer, 1781.

Preoccupied by *Papilio damon* [Denis & Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 182, no. 2.

= *damastus* (Godart, [1824])

Ency. méth. 9(Ins.)(2): (602), 640, no. 86; cited *Papilio damon* Stoll, 1781, Uitl. Kapellen 4(32): pl. 390, figs. C, D; (34): 249 (index).

Original Combination: *Polyommatus Damastus*

Proposed as a replacement name for *Papilio damon* Stoll, 1781, preoccupied, with the same data (Code Article 60.3).

= *auburniana* (T. Harris, 1862)

Ins. injur. Veget. (3rd ed.): 277.

Original Combination: *Thecla Auburniana*

Type Locality: "a favorite spot near Cambridge, formerly known by the name of Sweet Auburn" [Middlesex County, Massachusetts]

Types: Syntypes (#26346) in MCZ.

= *patersonia* (Brehme, 1907)

Entomol. News 18(3): 82-83.

Original Combination: *Thecla*

damon var. *patersonia*

Type Locality: "Garret mountains at Paterson, N. J."
[Passaic County, New Jersey]

Types: Holotype in USNM.

= *octoscripta* (Buchholz, 1951)

Bull. Brooklyn Entomol. Soc. 46(3): 78.

Original Combination: *Mitoura gryneus*

octoscripta n. var.

Type Locality: "Passaic Co., New Jersey"

Types: Holotype in AMNH.

d. **Callophrys gryneus castalis** (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 205, 208, no. 5.

Original Combination: *Thecla Castalis*

Type Locality: "near Waco, Texas" [McLennan County]

Types: Lectotype in CMNH, designated by F. Brown
(1970), Trans. Am. Entomol. Soc. 96(1): 57, fig. 16 ♂
D&V.

= *discoidalis* (Skinner, 1897)

Can. Entomol. 29(6): 156.

Original Combination: *Thecla damon* n.

var. *discoidalis*

Type Locality: "Round Mountain, Blanco Co.,
Texas"

Types: Syntype (#7046) in CMNH.

= ‡"brehmei" (W. Barnes & Benjamin, 1923)

Contrib. Nat. Hist. Lepid. N. Am. 5(2): 64.

Original Combination: *Thecla*

gryneus race *castalis* form *brehmei*

Type Locality: "Shovel Mt....Texas" [Burnet
County]

Types: "Holotype" in USNM.

e. **Callophrys gryneus siva** (W. H. Edwards, 1874)

Trans. Am. Entomol. Soc. 5(2): 110-111.

Original Combination: *Thecla Siva*

Type Locality: "Wingate, Arizona"; neotype from "Fort
Wingate." [McKinley County, New Mexico]

Types: Neotype (#1357) in CMNH, designated by F.
Brown and Clench (1970), in: F. Brown, Trans. Am.
Entomol. Soc. 96(1): 61, fig. 18 ♂ D&V.

= *clenchi* (K. Johnson, 1988)

Insecta Mundi 2(1): 76-80, figs. 1A ♂ D, 1B ♂ V
(holotype); 2A ♂ genitalia, 2B ♀ genitalia.

Original Combination: *Mitoura clenchi*

Type Locality: "Pinery Canyon, 6500', Chiracahua
Mts., Cochise Col. [sic!], Arizona"

Types: Holotype in CMNH.

Proposed for the taxon misidentified as *Callophrys*
(*Mitoura*) *siva rhodope* by Clench (1981), Bull. Allyn
Mus. (64): 15. Bailowitz and Brock (1991), Butterflies
SE Ariz.: 183, suggest that this taxon should be
considered a synonym of *C. g. siva*.

f. **Callophrys gryneus chalcosiva** Clench, 1981

Bull. Allyn Mus. (64): 11-13, figs. 17 ♂ D, 18 ♂ V

(holotype); 19 ♀ D, 20 ♀ V, 21a-c ♂ genitalia.

Original Combination: *Callophrys* (*Mitoura*) *siva*
chalcosiva

Type Locality: "S. Willow Creek, Stansbury Mts., Tooele Co., Utah"

Types: Holotype in MGCL.

- g. **Callophrys gryneus nelsoni** (Boisduval, 1869)
Annls. Soc. Entomol. Belg. 12: 43-44, no. 17; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 238, fig. 1954 ♂ D&V.

Original Combination: *Thecla Nelsoni*

Type Locality: "dans les grands bois de l'intérieur"; defined as "Hwy. 70 at Chambers Creek, ca. 6 road miles SW of Belden, North Fork Feather River Canyon, 1850' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 25.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 25, figs. 180 ♂ D, 181 ♂ V.

= *exoleta* (Hy. Edwards, 1881)

Papilio 1(4): 53.

Original Combination: *Thecla nelsoni* n. var. *exoleta*

Type Locality: "Big Trees, Calaveras Co., Cal." [California]

Types: Holotype in AMNH.

= *acuminata* K. Johnson, 1976

Bull. Allyn Mus. (38): 20-21, fig. 8 ♂ D&V (holotype), fig. 13 ♂ genitalia.

Original Combination: *Callophrys (Mitoura) barryi acuminata*

Type Locality: "Butte Falls, Jackson Co., Oregon"

Types: Holotype in MGCL.

A. Warren (2005), Butterflies Ore.: 125, 129-130, determined this synonymy.

- h. **Callophrys gryneus plicataria** K. Johnson, 1976
Bull. Allyn Mus. (38): 15-17, fig. 6 ♂ D&V (holotype), ♀ D&V, fig. 11 ♂ genitalia, fig. 15D ♀ genitalia.

Original Combination: *Callophrys (Mitoura) rosneri plicataria*

Type Locality: "Cameron Lake, S. Vancouver Island, British Columbia"

Types: Holotype in MGCL.

= *barryi* K. Johnson, 1976

Bull. Allyn Mus. (38): 17-19, fig. 7 ♂ D&V (holotype), ♀ D&V, fig. 12 ♂ genitalia, fig. 15A ♀ genitalia.

Original Combination: *Callophrys (Mitoura) barryi*

Type Locality: "Union Co., Oregon" in error; determined to be "near the community or company of Union Mills, Clackamas County, Oregon, ca. 500'" by A. Warren (2005), Butterflies Oregon: 128, 131.

Types: Holotype in MGCL.

A. Warren (2005), Butterflies Oregon: 125, 131, determined this synonymy and gave precedence to *plicataria* over *barryi* as first reviser.

- i. **Callophrys gryneus rosneri** K. Johnson, 1976
Bull. Allyn Mus. (38): 13-15, fig. 5 ♂ D&V (holotype), ♀ D&V, fig. 10 ♂ genitalia, fig. 15C ♀ genitalia.

Original Combination: *Callophrys (Mitoura) rosneri*

Type Locality: "2 mi S. Kaslo, nr. Kootenay Lake, British Columbia"

- Types:** Holotype in MGCL.
- j. **Callophrys gryneus byrnei** K. Johnson, 1976
Bull. Allyn Mus. (38): 21-24, fig. 9 ♂ D&V (holotype), ♀ D&V, fig. 14 ♂ genitalia, fig. 15B ♀ genitalia.
Original Combination: *Callophrys (Mitoura) byrnei*
Type Locality: "5.6 mi. S. Emida, Benewah Co., Idaho"
Types: Holotype in MGCL.
- k. **Callophrys gryneus juniperaria** (J. A. Comstock, 1925)
Bull. South. Calif. Acad. Sci. 24(2): 37, pl. 2, figs. 5 ♂ D, 6 ♀ V, 7 ♂ V, 8 ♀ V.
Original Combination: *Mitoura siva juniperaria*
Type Locality: "Mint Canyon, Sierra Madre Mts., Cal." [Los Angeles County, California]
Types: Syntypes in LACM; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 50, figs. 5 ♂ D, 6 ♀ V, 7 ♂ V, 8 ♀ V.
- l. **Callophrys gryneus mansfieldi** (Tilden, 1951)
Bull. South. Calif. Acad. Sci. 50(2): 96, 98, pl. 33, bottom, ♂ V (holotype).
Original Combination: *Mitoura siva mansfieldi*
Type Locality: "about seven miles west of Simmler, San Luis Obispo County, California"
Types: Holotype in CAS.
462. **Callophrys loki** (Skinner, 1907)
- a. **Callophrys loki loki** (Skinner, 1907)
Entomol. News 18(9): 378.
Original Combination: *Thecla loki*
Type Locality: "Mt. Springs, San Diego County, Cal." [California]
Types: Syntype (#7045) in CMNH; "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 64, fig. 18 ♀ V.
- b. **Callophrys loki thornei** (J. Brown, 1983)
J. Res. Lepid. 21(4): 246-249, fig. 1, row b 3 ♀♀ V, 1 ♂ V, fig. 2, 2nd column ♂&♀ genitalia.
Original Combination: *Mitoura thornei*
Type Locality: "California, San Diego County, Little Cedar Canyon, north slope of San Ysidro Mtns. (Otay Mountain), east end of Lower Otay Lake, 200 m, 32° 37' N, 116° 52' W"
Types: Holotype in SDMC.
463. **Callophrys muiri** (Hy. Edwards, 1881)
Papilio 1(4): 53-54.
Original Combination: *Thecla muiri*
Type Locality: "Mendocino Co., Cal." [California]
Types: Holotype in AMNH.
Forister (2004), Ecol. Entomol. 29(3): 264-272, corroborated the species-level status of this taxon.
464. **Callophrys hesseli** (Rawson & Ziegler, 1950)
- a. **Callophrys hesseli hesseli** (Rawson & Ziegler, 1950)
J. N. Y. Entomol. Soc. 58(2): 74-78, fig. 1 ♂ genitalia, pl. 10, figs. 5 ♂ D, 7 ♂ V (holotype); 6 ♀ D, 8 ♀ V, 9 ♂ V.
Original Combination: *Mitoura hesseli*
Type Locality: "Lakehurst, Ocean County, New Jersey"
Types: Holotype in USNM.
- b. **Callophrys hesseli angulata** (Gatrelle, 2001)

Tax. Rep. Int. Lepid. Surv. 3(4): 8-9, figs. 9 ♂ D, 10 ♂ V, 11 ♀ D, 12 ♀ V, 13 ♀ D, 14 ♀ V, 15 ♂ D, 16 ♂ V (holotype), 17 ♀ D, 18 ♀ V.

Original Combination: *Mitoura hesseli angulata*

Type Locality: "South Carolina, Aiken County, nr Aiken State Park"

Types: Holotype in MGCL.



Subgenus **Xamia** Clench, 1961

In: P. Ehrlich and A. Ehrlich, How Know Butterflies: 200, 205. Type-species: *Thecla xami* Reakirt, [1867], Proc. Acad. Nat. Sci. Philad. 18(4): 332-333, no. 29, by original designation.

465. **Callophrys xami** (Reakirt, [1867])

a. **Callophrys xami xami** (Reakirt, [1867])

Proc. Acad. Nat. Sci. Philad. 18(4): 332-333, no. 29.

Original Combination: *Thecla Xami*

Type Locality: "Mexico (near Vera Cruz)" [Veracruz]

Types: Location of type(s) not known, possibly lost.

= *blenina* (Hewitson, 1868)

Descr. new Spec. Lycaenidae: 12-13, no. 29; figured by Hewitson (1869), Ill. diurn. Lepid. Lycaenidae 2(4): pl. 50, figs. 256 ♂ V, 257 ♂ D.

Original Combination: *Thecla Blenina*

Type Locality: "Mexico"

Types: Holotype in BMNH.

b. **Callophrys xami texami** Clench, 1981

Bull. Allyn Mus. (64): 6-7, figs. 7 ♂ D, 8 ♂ V (holotype); 9 ♀ D, 10 ♀ V.

Original Combination: *Callophrys (Xamia) xami texami*

Type Locality: "Corpus Christi, Texas" [Nueces County]

Types: Holotype in MGCL.

Subgenus **Sandia** Clench & P. Ehrlich, 1960

In: P. Ehrlich and Clench, Entomol. News 71(6): 138, 139-140, pl. 1. Type-species: *Callophrys (Sandia) mcfarlandi* P. Ehrlich & Clench, 1960, Entomol. News 71(6): 138-139, by original designation.

466. **Callophrys mcfarlandi** P. Ehrlich & Clench, 1960

Entomol. News 71(6): 138, 139-140, pl. 1, top right ♂ D, bottom left ♂ V (holotype), top left ♀ D, bottom right ♀ V.

Original Combination: *Callophrys (Sandia) mcfarlandi*

Type Locality: "La Cueva Canyon, 6300 ft., west slope of Sandia Mts., Bernalillo Co., New Mexico"

Types: Holotype in AMNH; figured by K. Johnson (1988), Insecta Mundi 2(1):figs. 1c ♂ D, 1d ♂ V, fig. 3b male genitalia.

= *madreoriente* K. Johnson, 1988

Insecta Mundi 2(1): 17, 19, figs. 1a ♂ D, 1b ♂ V (holotype), fig. 3a male genitalia.

Original Combination: *Sandia mcfarlandi madreoriente*

Type Locality: "Coahuila State, Mexico, Hwy. 57, 17 mi. SE Saltillo, 2,270 m."

Types: Holotype in CMNH.

Subgenus **Cisincisalia** K. Johnson, 1992

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22)(vol. I): i, 104, name mentioned; (vol. II): 178. Type-species: *Cisincisalia moeckii* K. Johnson, 1992, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens

Point) (22)(vol. II): 179-180, figs. 190, 212 (= *Callophrys guatemalena* Clench, 1981 Bull. Allyn. Mus. (64): 27-30, figs. 43-48; synonym or subspecies), by original designation.

= *Loranthomitoura* Ballmer & Pratt, 1992

Tropical Lepid. 3(1): 37-41. Type-species: *Thecla*

spinetorum Hewitson, 1867, Ill. diurn. Lepid. Lycaenidae 1(3):

94-95, no. 99; 2(3): pl. 45, figs. 198, 199, by original designation.



467. *Callophrys spinetorum* (Hewitson, 1867)

a. *Callophrys spinetorum spinetorum* (Hewitson, 1867)

Ill. diurn. Lepid. Lycaenidae 1(3): 94-95, no. 99; 2(3): pl. 45, figs. 198 ♀ D, 199 ♀ V.

Original Combination: *Thecla spinetorum*

Type Locality: "California"; defined as "vicinity of Gold Lake Lodge, near Gold Lake, Sierra Nevada, Sierra County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (4): 83.

Types: Holotype in BMNH, figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 238, fig. 1952 ♀ D&V, and J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (4): 83, figs. 1 ♀ D, 2 ♀ V.

= *ninus* (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 266, 270-271, no. 7.

Original Combination: *Thecla Ninus*

Type Locality: "Colorado"; defined as "South Park road four miles from the park...near Kenosha" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 161; further defined as "ca. 1 mi. E Kenosha Pass summit, U. S. Highway 285" by Shields [1966], J. Res. Lepid. 4(4): 233; subsequently cited as "about 1 mile east of Kenosha Pass, Park County, Colorado" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 57.

Types: Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 59, fig. 17 ♂ D&V.

= *cuyamaca* (W. S. Wright, 1922)

Bull. South. Calif. Acad. Sci. 21(2): 19-20, pl. C ♂ D, D ♂ V.

Original Combination: *Miltoura* [sic!] *spinetorum cuyamaca*

Type Locality: "Julian, San Diego County, Calif."

Types: Shields [1966], J. Res. Lepid. 4(4): 234, noted that the holotype is probably lost; one paratype in USNM, another from "Cuyamaca Lake, San Diego Co., Calif." in SDMC.

b. *Callophrys spinetorum millerorum* Clench, 1981

Bull. Allyn. Mus. (64): 21-23, figs. 34 ♂ D, 35 ♂ V (holotype); 36, 36a ♀ genitalia.

Original Combination: *Callophrys (Mitoura) millerorum*

Type Locality: "vic. El Encarnacion, 2400-2450 m, Hidalgo, Mexico"

Types: Holotype in MGCL.

One specimen of this taxon was recorded from Otero County, New Mexico, by K. Johnson (1986), J. Lepid. Soc. 39(2): 119-124. It is unclear whether this represents a stray into the United States, or an extreme of the local range of individual variation.

468. *Callophrys johnsoni* (Skinner, 1904)

Entomol. News 15(9): 298.

Original Combination: *Thecla Johnsoni*

Type Locality: "British Columbia"

Types: Syntype(s) (#7044) in CMNH; one figured by W. Holland (1931), *Butterfly Book* (rev. ed.): 230, pl. 75, figs. 1 ♀ D, 2 ♀ V.

Subgenus *Incisalia* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 52. Type-species: *Lycus nippon* Hübner, [1819], Verz. bekannt. Schmett. (5): 74, no. 730, by original designation.

= *Deciduphagus* K. Johnson, 1992

Neue Entomol. Nachr. 29: 91. Type-species: *Thecla augustinus* Westwood, 1852, in: Gen. diurn. Lepid. 2(52): 486, no. 104, by original designation.

469. *Callophrys augustinus* (Westwood, 1852)

a. *Callophrys augustinus croesioides* (Scudder, 1876)
Bull. Buffalo Soc. Nat. Sci. 3: 104, no. 200.

Original Combination: [*Incisalia Augustus*] *Croesioides*

Type Locality: "Canada and New England, southward along the Appalachians to West Virginia"; neotype from "Lakehurst, New Jersey." [Ocean County]

Types: Neotype in AMNH, designated by dos Passos (1943), Am. Mus. Novit. (1230): 2.

b. *Callophrys augustinus helenae* (dos Passos, 1943)
Am. Mus. Novit. (1230): 2.

Original Combination: *Incisalia augustinus helenae*

Type Locality: "Doyles Station, Newfoundland" [Newfoundland and Labrador]

Types: Holotype in AMNH.

c. *Callophrys augustinus augustinus* (Westwood, 1852)
In: Gen. diurn. Lepid. 2(52): 486, no. 104; cited *Thecla augustus* W. Kirby, 1837, Fauna Bor.-Am. [4]: 298, no. 1, pl. 3, figs. 4 ♂ D, 5 ♂ V.

Original Combination: *Th[ecla]. Augustinus*

Proposed to replace *Thecla augustus* W. Kirby, 1837, preoccupied, with the same data (Code Article 60.3).

= *†augustus* (W. Kirby, 1837)

Fauna Bor.-Am. [4]: 298, no. 1, pl. 3, figs. 4 ♂ D, 5 ♂ V.

Original Combination: *Thecla Augustus*

Type Locality: "Lat. 54°^{00'}"; stated to be "Cumberland House, Lat. 54° N, Saskatchewan" by Klots (1951), Field Guide Butterflies N. Am.: 146; defined as "north end of Lake Winnipeg" by W. Forbes (1960), Mem. Cornell Univ. Agric. exp. Sta. 371 (part 4): 133; neotype from "Fawcett, Alberta."

Types: Neotype in AMNH, designated by dos Passos (1943), Am. Mus. Novit. (1230): 2. Preoccupied by *Hesperia augustus* Fabricius, 1793, Entomol. Syst. 3(1): 275, no. 62, considered to be in *Thecla* at the time of the replacement. This name was replaced by *augustinus* Westwood, 1852; even though the secondary homonymy no longer exists, the rules governing replacement names apply (Code Articles 57.3.1, 59.3).



- d. **Callophrys augustinus concava** Austin, 1998
Syst. W. N. Am. Butterflies (45): 545-546, figs. 33 ♂ D, 34 ♂ V (holotype); 35 ♀ D, 36 ♀ V.
Original Combination: *Incisalia augustinus concava*
Type Locality: "Nevada: Elko County; Independence Mountains, Jacks Creek, 1.3 miles east of Jacks Creek Campground, 2042 m, T42N R53E S19 on Bull Run, Nev. 15' quadrangle"
Types: Holotype in MGCL.
- e. **Callophrys augustinus iroides** (Boisduval, 1852)
Annls. Soc. Entomol. Fr. (2)10(2): 289-290, no. 20; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 235, fig. 1924 ♀ D&V.
Original Combination: *Thecla iroides*
Type Locality: "d'une grande partie de la California"; defined as "San Francisco, California" by dos Passos (1943), Am. Mus. Novit. (1230): 3; subsequently defined as "Hwy 70 at Soda Creek, E. Branch North Fork Feather River Canyon, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 10.
Types: Lectotype in USNM, designated by dos Passos (1943), Am. Mus. Novit. (1230): 3. This is the specimen figured by Oberthür (1913).
= ‡"immaculata" (Cockle, 1897)
Can. Entomol. 42(6): 204.
Original Combination: *Thecla iroides* var. *immaculata*
Type Locality: "Kaslo, B. C." [British Columbia]
Types: "Holotype" in CNC.
The text clearly indicates that this taxon was described as an individual variant.
- f. **Callophrys augustinus annetteae** (dos Passos, 1943)
Am. Mus. Novit. (1230): 3.
Original Combination: *Incisalia iroides annettae*
Type Locality: "New Mexico"
Types: Holotype in AMNH.
470. **Callophrys fotis** (Strecker, [1878])
 - a. **Callophrys fotis fotis** (Strecker, [1878])
Lepid. Rhop. Het. (14): 129.
Original Combination: *Thecla Fotis*
Type Locality: "Arizona"; defined as "northwestern Mohave County, Arizona" by Austin (1998), Syst. W. N. Am. Butterflies (45): 547.
Types: Lectotype in FMNH, designated by Austin (1998), Syst. W. N. Am. Butterflies (45): 547.
 - b. **Callophrys fotis mojavensis** Austin, 1998
Syst. W. N. Am. Butterflies (45): 546-547, figs. 37 ♂ D, 38 ♂ V (holotype); 39 ♀ D, 40 ♀ V.
Original Combination: *Incisalia fotis mojavensis*
Type Locality: "Nevada: Clark County; Spring Mountains, 2 miles north of Red Cloud Mine, 1829 m, T24S R58E S5 on USGS Goodsprings, Nev. 15' quadrangle"
Types: Holotype in MGCL.
471. **Callophrys mossii** (Hy. Edwards, 1881)
Austin (1981), J. Res. Lepid. 19(4): 242, and J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (13): 162, detailed the species-level status of this taxon.



- a. **Callophrys mossii schryveri** (Cross, 1937)
Proc. Colo. Mus. Nat. Hist. 16(1): 20.
Original Combination: *Incisalia polios schryveri*
Type Locality: "Chimney Gulch, Colorado" [Jefferson County]
Types: Holotype possibly in DMNH.
- b. **Callophrys mossii mossii** (Hy. Edwards, 1881)
Papilio 1(4): 54.
Original Combination: *Thecla irus* n. var *mossii*
Type Locality: "Esquimault, Vancouver Island" [British Columbia]
Types: Holotype in AMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 64, fig. 10 ♂ D.
- c. **Callophrys mossii marinensis** J. Emmel, T. Emmel & Mattoon, 1998
Syst. W. N. Am. Butterflies (13): 163-164, figs. 17 ♂ D, 18 ♂ D (holotype); 19 ♀ D, 20 ♀ V.
Original Combination: *Incisalia mossii marinensis*
Type Locality: "California: Marin County; along highway at confluence of Lagunitas Creek and San Geronimo Creek, 200' elevation, southwest of Lagunitas"
Types: Holotype in LACM.
- d. **Callophrys mossii bayensis** R. Brown, 1969
J. Lepid. Soc. 23(2): 95-96.
Original Combination: *Callophrys (Incisalia) fotis bayensis*
Type Locality: "California, San Mateo Co., San Bruno Mts."
Types: Holotype (#9547) in CAS.
- e. **Callophrys mossii doudoroffi** (dos Passos, 1940)
Can. Entomol. 72(8): 168.
Original Combination: *Incisalia doudoroffi*
Type Locality: "Big Sur, Monterey County, California"
Types: Holotype in AMNH.
- f. **Callophrys mossii hidakupa** J. Emmel, T. Emmel & Mattoon, 1998
Syst. W. N. Am. Butterflies (13): 162-163, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.
Original Combination: *Incisalia mossii hidakupa*
Type Locality: "California: San Bernardino County; San Gabriel Mountains; small side canyon of Stoddard Canyon, 0.4 air mile east of Stoddard Peak, 4300 to 4500', ca. 3 air miles south of Mt. Baldy Village; southwest 1/4 of S6 T1N R7W"
Types: Holotype in LACM.
- g. **Callophrys mossii windi** (Clench, 1943)
Can. Entomol. 75(10): 185.
Original Combination: *Incisalia doudoroffi windi*
Type Locality: "Placer County, California"
Types: Holotype in AMNH.
472. **Callophrys polios** (Cook & F. Watson, 1907)
 - a. **Callophrys polios polios** (Cook & F. Watson, 1907)
Can. Entomol. 39(6): 202-203; figured by Cook (1907), Can. Entomol. 39(7): pl. 5, fig. 23 ♂ V, 24 ♂ D, 25 ♀ V, 26 ♀ D.
Original Combination: *Incisalia polios*
Type Locality: "Lakewood, N. J." [Ocean County, New Jersey]



Types: Holotype in USNM.

= ‡"davis" (F. Watson & W. Comstock, 1920)
Bull. Am. Mus. Nat. Hist. 42(10): 453.

Original Combination: *Incisalia*
polios ab. *davis*

Type Locality: "Manchester (now called
Lakehurst), New Jersey" [Ocean County]

Types: "Holotype" in AMNH.

- b. Callophrys polios obscurus** (Ferris & M. Fisher, 1973)
J. Lepid. Soc. 27(2): 115-117, figs. 2 a, b ♂ D&V
(holotype), a, b ♀ D&V, c ♂&♀ D, d ♂&♀ V.

Original Combination: *Incisalia polios obscurus*

Type Locality: "Lookout Mountain, Jefferson Co.,
Colorado"

Types: Holotype in LACM.

- c. Callophrys polios maritima** J. Emmel, T. Emmel &
Mattoon, 1998

Syst. W. N. Am. Butterflies (69): 811-812, figs. 1 ♂ D, 2
♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Incisalia polia maritima*

Type Locality: "California: Del Norte County; south end
of Lake Earl"

Types: Holotype in LACM.

473. Callophrys irus (Godart, [1824])

- a. Callophrys irus irus** (Godart, [1824])

In: Ency. méth. 9(Ins.)(2): (610), 674, no. 177.

Original Combination: *Polyommatus Irus*

Type Locality: "l'Amerique?"; suggested to be "southern
area of New Jersey east of Philadelphia" by Gatrell
(1999), Tax. Rep. Int. Lepid. Surv. 1(6A): 1A. [Camden
or Burlington counties, New Jersey]

Types: Holotype in MNHP; figured by K. Johnson
(1991), J. Lepid. Soc. 45(2): fig. 18. This same specimen
was designated neotype by Gatrell (1999), Tax. Rep.
Int. Lepid. Survey 1(6)(1A): fig. 5 ♂ D&V, because there
was a question as to its validity as a syntype. Faynel and
Bálint (2004), Bull. Soc. Entomol. Fr. 109(3): 277, 285,
considered it the holotype.

= ‡"balteata" Scudder, 1889

Butterflies E. U. S. & Can. 2(6): 837-838.

Original

Combination: *Incis[alia]. irus* [ab.] *baltaeta*

Type Locality: "Centre, near Albany" [Albany
County, New York]

Types: "Holotype" may be in MCZ or NYSM.

- b. Callophrys irus arsace** (Boisduval & Le Conte, [1835])
Hist. Lépid. Amér. sept. (11): 103-104, pl. 32, figs. 1 ♂ D,
2 ♀ D, 3 ♀ V, 4 larva, 5 pupa; figured by Oberthür
(1920), Étud. Lépid. Comp. 17: pl. 505, figs. 4209 ♂
D&V, 4210 ♀ D&V.

Original Combination: *T[hecla]. Arsace*

Type Locality: "Virginie et la Géorgie"

Types: Described, at least in part, from a John Abbot
drawing. The specimens upon which this drawing was
based are presumed lost. "Types," possibly those figured
by Oberthür, may be in USNM, but Calhoun (2004), J.
Lepid. Soc. 58(3): 156, discussed the dubious nature of
such "types" from the Boisduval collection.



- c. **Callophrys irus hadros** (Cook & F. Watson, 1909)
Can. Entomol. 41(6): 181.
Original Combination: *Incisalia hadros*
Type Locality: "near Houston, Texas" [Harris County]
Types: Holotype destroyed; paratype no. 15 in USNM was designated lectotype by dos Passos (1949), Can. Entomol. 81(7): 180; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 64, fig. 46 ♂ D.
- 474. **Callophrys henrici** (Grote & Robinson, 1867)
 - a. **Callophrys henrici henrici** (Grote & Robinson, 1867)
Trans. Am. Entomol. Soc. 1(2): 174.
Original Combination: *Thecla henrici*
Type Locality: "Atlantic District. (Maine! to Pennsylvania!)...vicinity of Philadelphia"; lectotype from "Pennsylvania."
Types: Lectotype in AMNH, designated by dos Passos (1943), Am. Mus. Novit. (1230): 4.
 - b. **Callophrys henrici viridissima** (Pavulaan, 1998)
Maryland Entomol. 4(2): 1-3, figs. 1(left) ♂ D, 2(left) ♂ V (holotype), 1(right) ♀ D, 2(right) ♀ V.
Original Combination: *Incisalia henrici viridissima*
Type Locality: "Bodie Island lighthouse, near Oregon Inlet, Nag's Head, Dare Co., N. C." [North Carolina]
Types: Holotype in USNM; figured by Gatrell (1999), Tax. Rep. Int. Lepid. Surv. 1(6): fig. 19 ♂ D, 20 ♂ V.
 - c. **Callophrys henrici yahwehus** (Gatrell, 1999)
Tax. Rep. Int. Lepid. Surv. 1(6): 9-10, figs. 7 ♂ D, 8 ♂ V (holotype); 9 ♀ D, 10 ♀ V, 11 ♂ V, 12 ♂ D&V.
Original Combination: *Deciduphagus henrici yahwehus*
Type Locality: "vicinity of Bull Swamp, Orangeburg County, South Carolina"
Types: Holotype in AMNH.
 - d. **Callophrys henrici margaretae** (dos Passos, 1943)
Am. Mus. Novit. (1230): 4.
Original Combination: *Incisalia henrici margaretae*
Type Locality: "eight miles east of Deland [sic!], Florida" [De Land, Volusia County]
Types: Holotype in AMNH.
 - e. **Callophrys henrici turneri** (Clench, 1943)
Can. Entomol. 75(10): 182-184.
Original Combination: *Incisalia henrici turneri*
Type Locality: "Cowley County, Kansas"
Types: Holotype (#26011) in MCZ.
 - f. **Callophrys henrici solatus** (Cook & F. Watson, 1909)
Can. Entomol. 41(6): 181.
Original Combination: *Incisalia Henrici* new variety *solatus*
Type Locality: "Blanco Co., Texas"
Types: Holotype destroyed; paratype no. 2 in AMNH was designated lectotype by dos Passos (1949), Can. Entomol. 81(7): 180.
- 475. **Callophrys lanoraieensis** (Sheppard, 1934)
Can. Entomol. 66(6): 141-142.
Original Combination: *Incisalia lanoraieensis*
Type Locality: "Lanoraie, P. Q." [Quebec]
Types: Holotype in CNC.
- 476. **Callophrys niphon** (Hübner, [1819]) (1793)
 - a. **Callophrys niphon niphon** (Hübner, [1819])

Verz. bekannt. Schmett. (5): 74, no. 730; figured by Hübner (1823), Zutr. Samml. exot. Schmett. 2: [7], no. 102, pl. [36], figs. 203 ♀ D, 204 ♀ V.

Original Combination: *Lycus Niphon*

Type Locality: "Florida"

Types: Type(s) probably lost.

Robbins and Lamas (2006), J. Lepid. Soc. 60(2): 89-90, established *Lycus niphon* Hübner, [1819], as a *nomen protectum* (Code Article 23.9.2).

= *plautus* (Fabricius, 1793)

Entomol. Syst. 3(1): 291, no. 113; cited Jones' Icones 6: pl. 44, fig. 1.

Original

Combination: *H[esperia]. R[urales]. Plautus*

Type Locality: "Indiis"

Types: Type(s) probably lost.

Robbins and Lamas (2006), J. Lepid. Soc. 60(2): 89-90, established *Hesperia plautus* Fabricius, 1793, as a *nomen oblitum* (Code Article 23.9.2).

b. Callophrys niphon clarki (T. Freeman, 1938)

Can. Entomol. 70(12): 247.

Original Combination: *Incisalia niphon* var. *clarki*

Type Locality: "Constance Bay, Ottawa region, Ont." [Ontario]

Types: Holotype (#4430) in CNC.

477. Callophrys eryphon (Boisduval, 1852)

a. Callophrys eryphon purpurascens (Austin & J. Emmel, 1998)

Syst. W. N. Am. Butterflies (42): 508, figs. 31 ♂ D, 32 ♂ V (holotype); 33 ♀ D, 34 ♀ V.

Original Combination: *Incisalia eryphon purpurascens*

Type Locality: "California: Humboldt County, Samoa"

Types: Holotype in LACM.

b. Callophrys eryphon sheltonensis (F. Chermock & Frechin, [1949])

Pan-Pac. Entomol. 24(4): 212.

Original Combination: *Incisalia eryphon sheltonensis*

Type Locality: "Shelton, Washington" [Mason County]

Types: Holotype in CMNH.

c. Callophrys eryphon eryphon (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 290, no. 21; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 236, fig. 19254 ♀ D&V (lectotype).

Original Combination: *Thecla eryphon*

Type Locality: "Californie" implied from the title of the paper; defined as "Hwy 70 at Soda Creek, E. Branch North Fork Feather River Canyon, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 11.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 11, figs. 27 ♀ D, 28 ♀ V.

d. Callophrys eryphon pallescens Austin, 1998

Syst. W. N. Am. Butterflies (45): 547-548, figs. 41 ♂ D, 42 ♂ V (holotype); 43 ♀ D, 44 ♀ V.

Original Combination: *Incisalia eryphon pallescens*

Type Locality: "Nevada: Nye county; Toiyabe Mountains, Jett Canyon, 2012 m, T10N R42E"



(unsectioned) on USGS Pablo Canyon Ranch, Nev. 7.5' quadrangle"

Types: Holotype in MGCL.

- e. **Callophrys eryphon fusca** Austin, 1998
Syst. W. N. Am. Butterflies (45): 548, figs. 45 ♂ D, 46 ♂ V (holotype); 47 ♀ D, 48 ♀ V.

Original Combination: *Incisalia eryphon fusca*

Type Locality: "Arizona: Coconino County; San Francisco Mountains, Schulz Pass Road"

Types: Holotype in MGCL.

Genus **Allosmaitia** Clench, [1964]

J. Res. Lepid. 2(4): 248, 254. Type-species: *Thecla coelebs* Herrich-Schäffer, 1862, Corresp-BI. zool.-min. Ver. Regensburg 16(10): 142, by original designation.

478. **Allosmaitia strophius** (Godart, [1824])

In: Enc. méth. 9(Ins.)(2): (599-600), 632, no. 55.

Original Combination: *Polyommatus Strophius*

Type Locality: "Brésil"

Types: Holotype in MNHP; figured by K. Johnson (1991), J. Lepid. Soc. 45(2): fig. 24.

= *scoteia* (Hewitson, 1877)

Ill. diurn. Lepid. Lycaenidae 1(7): 206, no. 425; 2(7): pl. 82, figs. 683 ♂ D, 684 ♂ V.

Original Combination: *Thecla Scoteia*

Type Locality: "Minas Geraes" [Minas Gerais, Brazil]

Types: Holotype in BMNH.

= *pion* (Godman & Salvin, 1887)

Biol. centr.-amer., Lepid. Rhop. 2(56): 56, no. 101; 3(62): pl. 54, figs. 28 ♂ D, 28a ♂ scent patch, 29 ♂ V, 30 ♀ V.

Original Combination: *Thecla pion*

Type Locality: "Guatemala, Polochic valley, Dueñas...Calderas...Panama, Chiriqui"; defined as "Duenas, (Polochic Valley)" by W. Comstock and Huntington (1962), J. N. Y. Entomol. Soc. 70(2): 115. [Guatemala]

Types: Syntypes in BMNH.

This taxon was considered synonymous with *strophius* by Ferris (1989), Mem. Lepid. Soc.(3): 28, citing Lathy (1926), Ann. Mag. Nat. Hist. (9)17(97): 43, although there was no mention of this synonymy by Lathy.

Genus **Strymon** Hübner, 1818

Zutr. Samml. exot. Schmett. 1: 22. Type-species: *Rusticus melinus* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: pl. [22], figs. 121, 122; 22, no. 61, by designation of N. Riley (1922), J. Bombay Nat. Hist. Soc. 28(2): 472. I.C.Z.N. *Opinion* 541 placed this name on the *Official List of Generic Names in Zoology* as name no. 1332.

= ‡*Callipareus* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 51. Type-species: *Rusticus melinus* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: pl. [22], figs. 121, 122; 22, no. 61, by original designation. A junior objective synonym of *Strymon*.

= *Callicista* Grote, 1873

Bull. Buffalo Soc. Nat. Sci. 1(3): 178. Type-species: *Callicista ocellifera* Grote, 1873, Bull. Buffalo Soc. Nat. Sci. 1(3): 178-179



(= *Thecla istapa* Reakirt, [1867], Proc. Acad. Nat. Sci. Philad. 18(5): 339, no. 46; synonym), by monotypy.

= ‡*Uranotes* Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 107, no. 11. Type-species: *Rusticus melinus* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: pl. [22], figs. 121, 122; 22, no. 61, as a replacement name. Proposed to replace *Callipareus* Scudder (1872), erroneously thought preoccupied. A junior objective synonym of *Strymon* Hübner, 1818.

= *Eiseliana* Toledo, 1978

Acta zool. Lilloana 33(1): 80. Type-species: *Eiseliana koehleri* Toledo, 1978, Acta zool. Lilloana 33(1): 80, fig.

= *Heoda* K. Johnson, L. Miller & J. Herrrera, 1992

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (23): 5-7.

Type-species: *Thecla heodes* H. H. Druce, 1909, Trans.

Entomol. Soc. Lond. (4)1909(3): 436-437, pl. 11, figs. 10, 11.

melinus group Robbins & Nicolay, 2002

J. Lepid. Soc. 55(3): 97.

479. *Strymon melinus* Hübner, 1818

a. *Strymon melinus melinus* Hübner, 1818

Zutr. Samml. exot. Schmett. 1: pl. [22], figs. 121 ♂ D, 122 ♂ V [1813], 22, no. 61 (1818, name given).

Original Combination: *Strymon Melinus*

Type Locality: "Georgien in Florida"

Types: Type(s) probably lost.

Opinion 503 placed this name on the *Official List of Specific Names in Zoology* as name no. 1602. This taxon was first called *Rusticus melinus* by Hübner (1808), Erste Zutr. Samml. exot. Schmett.: 5, but this work was suppressed by I.C.Z.N. *Opinion 789*.

= *hyperici* (Boisduval & Le Conte, 1833)

Hist. Lépid. Amér. sept. (10): 90, pl. 28, figs. 1 ♂ D, 2 ♀ D, 3 ♀ V, 4 larva, 5 pupa (1833); (11): pl. 32 [1835]).

Original Combination: *Thecla Hyperici*

Type Locality: "Géorgie et en Floride?"

Types: Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost. Oberthür (1920), Étud. Lépid. Comp. 17: pl. 505, fig. 4208 ♂ D&V, figured what he considered to be the "type" from the Boisduval collection, now probably at USNM. Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such "types" from the Boisduval collection.

= ‡"youngi" W. D. Field, 1936

J. Entomol. & Zool. 28(2): 25.

Original Combination: *Strymon melinus* tr. f. *youngi*

Type Locality: "Miami. Florida" [Miami-Dade County]

Types: "Holotype" in USNM.

b. *Strymon melinus humuli* (T. Harris, 1841)

Rep. Ins. Mass.: 215-216; figured by T. Harris (1862), Ins. injur. Veget. (3rd ed.) Fig. 104 ♂ D.

Original Combination: *Thecla Humuli*

Type Locality: "Massachusetts" implied from the title of the book; also suggested by W. Comstock and Huntington (1960), J. N. Y. Entomol. Soc. 68(3): 185.

Types: Syntypes in MCZ.

Layberry *et al.* (1998), Butterflies Can.: 147-148, considered this a synonym of *S. m. melinus*.

= ‡"meinersi" Gunder, 1927

Can. Entomol. 59(12): 283-284, no. 9, pl. A, figs.

9 ♀ D, 9a ♀ V ("holotype").

Original Combination: *Strymon melinus* tr. f. *meinersi*

Type Locality: "Table Rock, North Carolina" [Burke County]

Types: "Holotype" in AMNH.

c. ***Strymon melinus franki*** W. D. Field, 1938

J. Kansas Entomol. Soc. 11(4): 127-129.

Original Combination: *Strymon melinus franki*

Type Locality: "Lawrence, Kansas" [Douglas County]

Types: Holotype in USNM.

d. ***Strymon melinus setonia*** McDunnough, 1927

Can. Entomol. 59(7): 160-161.

Original Combination: [*Strymon melinus*] race *setonia*

Type Locality: "Seton Lake, Lillooet, B. C." [British Columbia]

Types: Holotype (#2502) in CNC.

e. ***Strymon melinus atrofasciata*** McDunnough, 1921

Can. Entomol. 53(2): 47.

Original Combination: *Strymon melinus atrofasciata*

Type Locality: "Wellington, B. C." [British Columbia]

Types: Holotype in CNC.

Species-genus gender conformation is *atrofasciatus*.

f. ***Strymon melinus pudica*** (Hy. Edwards, 1877)

Proc. Calif. Acad. Sci. [1]7(13): 172-173.

Original Combination: *Strymon melinus* Var. *pudica*

Type Locality: "Contra Costa County" [California]

Types: Holotype in AMNH.

Species-genus gender conformation is *pudicus*.

480. ***Strymon avalona*** (W. G. Wright, 1905)

Butterflies W. Coast: 62, no. 328; 209, no. 328, pl. 28, figs.

328 ♂ D, 328b ♂ D (lectotype), 328c ♂ V.

Original Combination: [*Thecla*] *Avalona*; *Thecla Avalona* n. s.

Type Locality: "Catalina Island"; implied to be "Avalon" from the formation of the name. [Los Angeles County, California]

Types: Lectotype in CAS (#4316), designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 33.

481. ***Strymon rufofusca*** (Hewitson, 1877)

Ill. diurn. Lepid. Lycaenidae 1(7): 196, no. 390; 2(7): pl. 78, figs. 627 ♀ V, 628 ♀ D.

Original Combination: *Thecla Rufo-fusca*

Type Locality: Not stated.

Types: Holotype (#Rh1008) in BMNH.

= *valentina* Berg, 1896

An. Mus. Nac. (Buenos Aires) (2)5: 3, fig. 3a.

Original Combination: *Thecla (Uranotes) valentina*

Type Locality: "Corduba, Reipublicae Argentinae...Sierra de Córdoba" [Córdoba, Argentina]

Types: Holotype in MACN.

K. Johnson *et al.* (1990), Bull. Allyn Mus. (130): 21, erected a separate species-group for this and other taxa, and detailed differences between it and *S. rufofusca*.

= *lucaris* Weeks, 1905

Proc. New England Zool. Club 2: 102-103; figured by Weeks (1905), Ill. diurn. Lepid. 1: 42-43, pl. 10, fig. 1 ♂ D&V.

Original Combination: *Thecla lucaris*

Type Locality: "Bolivia, near Cusilluni"

Types: Holotype (#16666) in MCZ.

H. H. Druce (1907), Proc. Zool. Soc. Lond. 1907(3): 623, determined this synonymy.

= *grisea* (Dufrane, 1939)

Bull. Annls. Soc. Entomol. Belg. 79(7/8): 290.

Original Combination: *Thecla melimus* [sic!] *grisea*

Type Locality: "Trujillo, Pérou"

Types: Holotype in MNHP (de Joannis collection).

= *guanensis* Le Crom & K. Johnson, 1997

Revta. Thec. Colomb. 2(16): 15, text fig. 4 ♀ [not ♂] genitalia, photoplate XIII(c), fig. B ♀ D&V (holotype).

Original Combination: *Strymon guanensis*

Type Locality: "Colombia, Dept. Narino, El Patia"

Types: Holotype in ICNB.

= ‡"nigriplaga" (Dufrane, 1939)

Bull. Annls. Soc. Entomol. Belg. 79(7/8): 290.

Original Combination: [*Thecla melimus grisea*] ab. *nigriplaga*

Type Locality: "Trujillo, Pérou"

Types: "Holotype" in MNHP (de Joannis collection).

albata group Robbins & Nicolay, 2002
J. Lepid. Soc. 55(3): 97.

482. *Strymon albata* (C. Felder & R. Felder, 1865)

Reise Novara (2): 261-262, no. 310, pl. 32, figs. 17 ♀ D, 18 ♀ V.

Original Combination: *Thecla Albata*

Type Locality: "Venezuela...Nova Granada: Bogotá"; all syntypes are from Bogotá.

Types: Syntypes in BMNH; one figured by Bálint & Goodger (2003), Quadrifina 6: figs. 8 ♂ D, 9 ♂ V.

= *sedecia* (Hewitson, 1874)

Entomol. Mon. Mag. 11(124): 105; figured by Hewitson (1873), Ill. diurn. Lepid. Lycaenidae 2(6): pl. 72, figs. 548 ♂ D, 549 ♂ V (as *Thecla polibetes*), and (1874), 2(7): pl. 78, figs. 637 ♂ V, 638 ♂ D.

Original Combination: *Thecla Sedecia*

Type Locality: "Mexico"; defined as "Mazatlán, Sinaloa, Mexico" by Clench (1967), J. Lepid. Soc. 21(3): 183.

Types: Holotype in BMNH.

483. *Strymon alea* (Godman & Salvin, 1887)

Biol. centr.-amer., Lepid. Rhop. 2(61): 95, no. 205; 3(66): pl. 58, figs. 10 ♂ D, 11 ♂ V.

Original Combination: *Thecla alea*

Type Locality: "Mexico, Tres Marias islands...Jalapa" [Tres Marias Islands, Nyarit; Jalapa, Veracruz]

Types: Holotype in BMNH.

= *laceyi* (W. Barnes & McDunnough, 1910)

Can. Entomol. 42(11): 365-366.

Original Combination: *Callicista Laceyi*

Type Locality: "Del Rio, Texas"; suggested to be "on the Devils River north of Del Rio in Val Verde Co." by R. Kendall and C. Kendall (1971), J. Lepid. Soc. 25(1): 38.
Types: Holotype in USNM; figured by P. Ehrlich and A. Ehrlich (1961), How Know Butterflies: fig. 422 ♀ V.

484. **Strymon bebrycia** (Hewitson, 1868)
 Descr. new Spec. Lycaenidae: 13, no. 30; figured by Hewitson (1869), Ill. diurn. Lepid. Lycaenidae 2(4); pl. 50, figs. 258 ♀ D, 259 ♀ V.
Original Combination: *Thecla Bebrycia*
Type Locality: "Mexico"
Types: Lectotype (#Rh1020) in BMNH, designated by K. Johnson and Salazar (1993), Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (26): 11, fig. 2B, Photoplate II, H.
 = *chonida* (Hewitson, 1874)
 Entomol. Mon. Mag. 11(124): 105; figured by Hewitson (1877), Ill. diurn. Lepid. Lycaenidae 2(7): pl. 78, figs. 635 ♂ V, 636 ♂ D.
Original Combination: *Thecla Chonida*
Type Locality: "Mexico"
Types: Holotype in BMNH.
 = *buchholzi* H. Freeman, 1950
 Field & Lab. 18(1): 12.
Original Combination: *Strymon buchholzi*
Type Locality: "Pharr, Texas" [Hidalgo County]
Types: Holotype in AMNH.

yojoa group Robbins & Nicolay, 2002
 J. Lepid. Soc. 55(3): 97.

485. **Strymon yojoa** (Reakirt, [1867])
 Proc. Acad. Nat. Sci. Philad. 18(5): 339, no. 45.
Original Combination: *Thecla yojoa*
Type Locality: "Mexico, near Vera Cruz" [Veracruz]
Types: Location of type(s) not known, not in FMNH.
 = *beroea* (Hewitson, 1868)
 Descr. new Spec. Lycaenidae: 14, no. 32.
Original Combination: *Thecla Beroea*
Type Locality: "Mexico"
Types: Lectotype (#266891/Rh1034) in BMNH, designated by Robbins and Lamas (2002), Revta. bras. Zool. 19(supl. 1): 210.
 Hewitson (1874), Ill. diurn. Lepid. Lycaenidae 1(6): 158, no. 278, determined this synonymy.

mulucha group Robbins & Nicolay, 2002
 J. Lepid. Soc. 55(3): 97-98.

486. **Strymon cestri** (Reakirt, [1867])
 Proc. Acad. Nat. Sci. Philad. 18(5): 338, no. 43.
Original Combination: *Thecla cestri*
Type Locality: "Mexico, near Vera Cruz" [Veracruz]
Types: Location of type(s) not known, not in FMNH.
 = *crossoea* (Hewitson, 1874)
 Ill. diurn. Lepid. Lycaenidae 1(6): 158-159, no. 279; 2(6): pl. 62, fig. 427 V.
Original Combination: *Thecla Crossoea*
Type Locality: not stated.
Types: Holotype in BMNH.
 = *cydia* (Hewitson, 1874)
 Ill. diurn. Lepid. Lycaenidae 1(6): 160-161, no. 285; 2(6): pl. 63, figs. 433 ♀ D, 434 ♀ V.



Original Combination: *Thecla Cydia*

Type Locality: "Rio de Janeiro" [Rio de Janeiro, Brazil]

Types: Holotype in BMNH.

- = *chamiensis* Salazar, Vélez & K. Johnson, 1997
Revta. Thec. Colomb. 2(16): 8-9, text fig. 3 ♂&♀
genitalia, photoplate XII, fig. B ♂ D&V (holotype).

Original Combination: *Strymon chamiensis*

Type Locality: "Colombia, Dept. Choco, Guarato"

Types: Holotype in MGCL.

martialis group Robbins & Nicolay, 2002
J. Lepid. Soc. 55(3): 98.

487. **Strymon martialis** (Herrich-Schäffer, 1865)
Corresp.-Bl. zoo.-min. Ver. Regensburg 18(11/12): 164, no. 2.

Original Combination: [*Thecla*] *martialis*

Type Locality: "Cuba" implied from the title of the work.

Types: Syntype (#7239) in ANSP.

- *488. **Strymon acis** (Drury, 1773)
Illustr. Nat. Hist. 1: 2: pl. 1, fig. 2 ♂ D, 2a ♂ V (1770); 2: index (1773, name given).

Original Combination: *Papilio Acis*

Type Locality: "New York"; suggested to be "Lesser Antilles...Antigua" by W. Comstock and Huntington (1943), Ann. N. Y. Acad. Sci. 45(2): 62-63.

Types: Type(s) lost.

- a. **Strymon acis bartrami** (W. Comstock & Huntington, 1943)

Ann. N. Y. Acad. Sci. 45(2): 65, pl. 1, fig. 2 ♀ V.

Original Combination: *Strymon acis bartrami*

Type Locality: "Florida...Miami" [Miami-Dade County]

Types: Holotype in AMNH.

istapa group Robbins & Nicolay, 2002
J. Lepid. Soc. 55(3): 97.

489. **Strymon bazochii** (Godart, [1824])

- a. **Strymon bazochii bazochii** (Godart, [1824])

Ency. méth. 9(Ins.)(2): (612), 681-682, no. 203.

Original Combination: *Polyommatus Bazochii*

Type Locality: "brésilien"

Types: Holotype in MNHP; figured by K. Johnson (1991), J. Lepid. Soc. 45(2): fig. 17.

Robbins (1989), *in*: Ferris, Mem. Lepid. Soc. (3): 32, stated "at least two species are presently lumped under *bazochii*, and it is not clear if *bazochii* is the species that has been collected in Texas."

- = *thius* (Geyer, 1832)

In: Hübner, Zutr. Samml. exot. Schmett. 4: pl. [128], figs. 743 ♂ D, 744 ♂ V [1826]; 33, no. 372, (1832, name given).

Original Combination: *Hyreus Thius*

Type Locality: "Brasilien"

Types: Location of type(s) not known, probably lost.

- = *agra* (Hewitson, 1868)

Descr. new Spec. Lycaenidae: 30, no. 63; figured by Hewitson (1873), Ill. diurn. Lepid. Lycaenidae 2(5): pl. 58, figs. 369 ♂ V, 370 ♂ D.

Original Combination: *Thecla Agra*

Type Locality: "Amazon"

Types: Holotype in BMNH.

This synonymy was suggested by W. Comstock and Huntington (1943), Ann. N. Y. Acad. Sci. 45(2): 88.

= *infrequens* Weeks, 1901

Entomol. News 12(9): 265-266; 13(8): pl. 13 ♂ D&V.

Original Combination: *Thecla infrequens*

Type Locality: "Bolivia, near Cusilluni"

Types: Type(s) possibly in MCZ.

490. **Strymon istapa** (Reakirt, [1867])

a. **Strymon istapa modesta** (Maynard, 1873)

Am. Nat. 7(3): 177.

Original Combination: *Lycaena modesta*

Type Locality: "Key West" [Monroe County, Florida]

Types: Type(s) may be in MCZ.

= *ocellifera* (Grote, 1873)

Bull. Buffalo Soc. Nat. Sci. 1(3): 178-179.

Original Combination: *Callicista ocellifera*

Type Locality: "near Aurora, about 17 miles southward from Buffalo, on the Buffalo, New York and Philadelphia Railroad" in error or transported by rail from Florida. [Cayuga County, New York]

Types: Holotype in AMNH.

b. **Strymon istapa istapa** (Reakirt, [1867])

Proc. Acad. Nat. Sci. Philad. 18(5): 339, no. 46.

Original Combination: *Thecla istapa*

Type Locality: "Mexico, near Vera Cruz" [Veracruz]

Types: Location of type(s) not known, not in FMNH.

c. **Strymon istapa clenchi** Austin & J. Emmel, 1998

Syst. W. N. Am. Butterflies (42): 508-509, figs. 35 ♂ D, 36 ♂ V (holotype); 37 ♀ D, 38 ♀ V.

Original Combination: *Strymon columella clenchi*

Type Locality: "California: Riverside County; Blythe"

Types: Holotype in LACM.

491. **Strymon limenia** (Hewitson, 1868)

Descr. new Spec. Lycaenidae: 32-33, no. 69; figured by Hewitson [1873], Ill. diurn. Lepid. Lycaenidae 2(6): pl. 63, figs. 431 ♀ V, 432 ♀ D.

Original Combination: *Thecla Limenia*

Type Locality: "Jamaica"

Types: Holotype in BMNH.

Recorded from the United States (Key West, Florida) for the first time by Anderson (1974), J. Lepid. Soc. 28(4): 355-356, fig. 2; now an irregular resident in southern Florida, recorded as recently as 2005 (Calhoun pers. comm. 2006).

serapio group Robbins & Nicolay, 2002

J. Lepid. Soc. 55(3): 99.

492. **Strymon serapio** (Godman & Salvin, 1887)

Biol. centr.-amer., Lepid. Rhop. 2(61): 93, no. 200; 3(66): pl. 58, figs. 8 ♂ D, 9 ♂ V.

Original Combination: *Thecla serapio*

Type Locality: "Mexico, Jalapa...Panama, David...Chiriqui"; specimen figured is from "David, Panama."

Types: Holotype in BMNH.

Bordelon (2009), News Lepid. Soc. 51(supplement S1): 78, records this species for Texas and Rickard & Grishin (2010), News Lepid. Soc. 52(3): 79-84, pl. 1, fig. 2 ♂ D&V (syntype), confirm its occurrence there and discuss this taxon. Records of this species from Big Bend National Park, Brewster County, Texas, represent an undescribed taxon.

- = *lemnos* (Druce, H. H., 1890)
Ent. mon. Mag. 26(313): 152.
Original Combination: *Thecla Lemnos*
Type Locality: "Interior of Columbia."
Types: Holotype in BMNH.
- = *mesca* Dyar, 1914
Proc. U. S. nat. Mus. 47(2050): 151-152.
Original Combination: *Thecla mesca*
Type Locality: "Taboga Island" [Panama]
Types: Holotype (#15762) in NMNH.
Placed as a synonym of *serapio* by Schaus, 1920, Ent. News 31(6): 176.
- = *inconspicua* Lathy, 1930
Trans. ent. Soc. Lond. 73(1): 136, pl. 9, fig. 15 ♀ D&V.
Original Combination: *Thecla inconspicua*
Type Locality: "Petropolis, Brazil"
Types: Holotype in BMNH
- = *golbachii* (Johnson, Eisele & MacPherson, 1990)
Bulletin of the Allyn Museum (130): 8-9, figs. 6E ♂ D, 6F ♂ V, 19 a-f, ♂ genitalia (Holotype).
Original Combination: *Strymon golbachii*
Type Locality: "Mendoza (206A)" [Rio Negro Province, Argentina]
Types: Holotype in MNHN.
- = *trunctogen* (Johnson & Salazar, 1993)
Rep. Mus. nat. Hist., Univ. Wisc. (Stevens Point) (26): 5-6, pl. 2, 3E ♂ D&V (Holotype), fig. 1E ♂ genitalia.
Original Combination: *Strymon trunctogen*
Type Locality: "Columbia, "Bogota""
Types: Holotype in BMNH.
- = *altamiraensis* (Johnson & Kroenlein, 1993)
Rep. Mus. nat. Hist., Univ. Wisc. (Stevens Point) (35):3, pl. VII, 1B, fig. 1B.
Original Combination: *Strymon altamiraensis*
Type Locality: " "...Brazil, "Alta Mira" [Altamira], Pará State..."
Types: Holotype in BMNH.
- = *henaoui* Salazar, Vélez & K. Johnson, 1997
Revta. Thec. Colomb. 2(16): 6, fig.
Original Combination: *Strymon henaoui*
Type Locality: "Colombia, Dept. Choco, Guarato"
Types: Holotype in MGCL.
- = *hurtadoi* K. Johnson, 1997
Revta. Thec. Colomb. 2(16): 31, fig.
Original Combination: *Strymon hurtadoi*
Type Locality: "Colombia, Valle del Cauca, Cali"
Types: Holotype in MGCL.
- = *rosari* Torres & K. Johnson, 1997
Revta. Thec. Colomb. 2(18): 3, fig.
Original Combination: *Strymon hurtadoi*
Type Locality: "Venezuela, Merida, Culata"
Types: Location of holotype not known.
- = *originatus* K. Johnson, Hernández & Cock, 1997
Revta. Thec. Colomb. 2(18): 5, fig.
Original Combination: *Strymon originatus*
Type Locality: "Trinidad & Tobago, Oropouche"
Types: Location of holotype not known.



Genus **Tmolus** Hübner, [1819]

Verz. bekannt. Schmett. (5): 76. Type-species: *Papilio echion* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 788, no. 224, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 285, no. 1061.

- *493. *Tmolus echion*** (Linnaeus, 1767)
 Syst. Nat. (ed. 12) 1(2): 788, no. 224, cited Kleemann (1761), Beytr. Nat. Ins. 1: pl. 7, figs. 3, 4.
Original Combination: *P[apilio]. P[lebejus Ruralis]. Echion*
Type Locality: "America"; but "Westindianische" from Kleeman's text.
Types: Type is the specimen figured by Kleeman (1761), *ibid.*; it is probably lost.
- = *crolus* (Stoll, 1780)
 Uitl. Kapellen 4(28): 85-86, pl. 333, figs. G ♂ D, H ♂ V; (34): 248 (index).
Original Combination: *Pap[ilio]. Pleb[ejus] Rura[is]. Crolus*
Type Locality: "Surinamen" "Suriname"
Types: Type(s) probably lost.
- = *labes* (H. H. Druce, 1907)
 Proc. Zool. Soc. Lond. 1907(3): 602, pl. 36, fig. 6 ♂ D&V.
Original Combination: *Thecla labes*
Type Locality: "Canapo, Trinidad"
Types: Holotype in BMNH.
- = *sanctissima* (Jørgensen, 1935)
 An. Mus. argentino Cienc. Nat. "Bernardino Rivadavia" 38(Entomologia 151): 93-94, pl. 2, fig. 6 ♂ D (holotype).
Original Combination: *Thecla sanctissima*
Type Locality: "Santísima Trinidad, cerca de Asunción, Paraguay"
Types: Holotype (# 32.703) in MACN.
- a. *Tmolus echion echiolus*** (Draudt, 1920)
In: Seitz, Grossschmett. Erde 5(283): 786; (260): pl. 156f, fig. [4] ♂ V.
Original Combination: [*Thecla echion*] form *echiolus*
Type Locality: "Mexiko"
Types: Syntypes in MTD.

Genus **Ministrymon** Clench, 1961

In: P. Ehrlich and A. Ehrlich, How Know Butterflies: 179, 196. Type-species: *Thecla leda* W. H. Edwards, 1882, Papilio 2(2): 23-24, by original designation.

phrutus group K. Johnson & L. Miller, 1991
 Acta Entomol. Chilena 16(2): 185.

- 494. *Ministrymon leda*** (W. H. Edwards, 1882)
 Papilio 2(2): 23-24.
Original Combination: *Thecla Leda*
Type Locality: "near Prescott" [Yavapai County, Arizona]
Types: Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 51, fig. 13 ♂ D&V.
- = *ines* (W. H. Edwards, 1882)
 Papilio 2(2): 25-26.
Original Combination: *Thecla Ines*

Type Locality: "southern Arizona"; defined as "vicinity of Tucson, Pima County, Arizona" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 52.

Types: Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 53, fig. 14 ♂ D&V; paralectotype figured by W. Holland (1931), Butterfly Book (rev. ed.): 240, pl. 29, fig. 35 ♀ [not ♂] D.

495. **Ministrymon clytie** (W. H. Edwards, 1877)

Field & Forest 3(5): 88-89.

Original Combination: *Thecla Clytie*

Type Locality: "San Antonio" [Bexar County, Texas]

Types: Holotype in CMNH, figured by W. Holland (1898), Butterfly Book: pl. 30, fig. 6 ♀ D, and F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): fig. 15 ♀ D&V.

= *maevia* (Godman & Salvin, 1887)

Biol. centr.-amer., Lepid. Rhop. 2(61): 89, no. 190; 3(66): pl. 58, figs. 3 ♂ D, 4 ♂ V.

Original Combination: *Thecla maevia*

Type Locality: "Mexico, Acapulco...Cordova...Guatemala, Polochic valley...San Geronimo...Costa Rica, Punta Arenas"; a specimen from "San Geronimo" was figured.

Types: Syntypes in BMNH.

= *daplissus* (K. Johnson & Salazar, 1993)

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (26): 4-5, pl. 2, fig. 3D ♂ D&V (holotype), fig. 1D ♂ genitalia.

Original Combination: *Strymon daplissus*

Type Locality: "Venezuela"

Types: Holotype in BMNH.

azia group K. Johnson & L. Miller, 1991
Acta Entomol. Chilena 16(2): 183, 185.

496. **Ministrymon azia** (Hewitson, 1873) (1860)

Ill. diurn. Lepid. Lycaenidae 1(5): 144-145, no. 245; 2(5): pl. 57, 357 ♂ V, 358 ♂ D.

Original Combination: *Thecla Azia*

Type Locality: "Mexico"

Types: Lectotype (#79-69) in BMNH, designated by Lamas (2002), Revta. bras. Zool. 19(supl. 1): 208.

= *guacanagari* (Wallengren, 1860)

Wien. entomol. Monatschr. 4(2): 37-38.

Original Combination: *Thecla guacanagari*

Type Locality: "Puna" [Argentina and Chile]

Types: Lectotype in NHRS, designated by Lamas (2002), Revta. bras. Zool. 19(supl. 1): 208.

This name was suppressed by I.C.Z.N. *Opinion* 2144.

= *nipona* (Hewitson, 1877)

Ill. diurn. Lepid. Lycaenidae 1(7): 204, no. 420; 2(7): pl. 81, figs. 673 ♂ V, 674 ♂ D, 675 ♀ D.

Original Combination: *Thecla Nipona*

Type Locality: "Brazil"

Types: Holotype (#79-69) in BMNH.

H. H. Druce (1907), Proc. Zool. Soc. Lond. 1907(3): 623, determined this synonymy.

= *brocela* (Dyar, 1913)

Proc. U. S. Nat. Mus. 45(2006): 637.

Original Combination: *Thecla brocela*

Type Locality: "Cotahuasi, 9,000 feet" [Peru]



- Types:** Holotype (#15622) in USNM.
- = *quebradivaga* K. Johnson & L. Miller, 1991
Acta Entomol. Chil. 16(2): 186-187, figs. 1 ♂ D&V, 1A ♀ genitalia, 2 ♂ genitalia, 3A ♂ D, 3B ♂ V (holotype), 5 ♀ D&V.
Original Combination: *Ministrymon quebradivaga*
Type Locality: "Codpa, hamlet in Quebrada Vitor...altitude 2.109 m" [Chile]
Types: Holotype in MGCL.
 - = *hernandezi* Schwartz & K. Johnson, 1992
Carib. J. Sci. 28(3/4): 153, figs. 3 ♂ D&V, 4A ♂ genitalia (holotype).
Original Combination: *Ministrymon hernandezi*
Type Locality: "Cuba: Provincia de Pinar del Rio: 5.5 km NW Niceto Perez (formerly Rancho Mundito), 450 m"
Types: Holotype in MNHP.
 - = *grumus* (K. Johnson & Kroenlein, 1993)
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (34): 39, pl. VI, 4E, fig. 7.
Original Combination: *Electrostrymon grumus*
Type Locality: "Trinidad-Tobago, Trinidad, Arima Valley"
Types: Holotype in AMNH.

Genus **Strephonota** K. Johnson, Austin, Le Crom & Salazar, 1997

- Revta. Thec. colomb. 1(1): 5, text figs. 2A, 2B, photoplate I, fig. A. Type-species: *Thecla strephon occidentalis* Lathy, 1926, Ann. Mag. Nat. Hist. (9)17(97): 44, by original designation. This name was mentioned by Salazar (1995), Columbia amaz. 8(1): 46, without a description; a *nomen nudum*.
- = *Zigirina* K. Johnson, Austin, Le Crom & Salazar, 1997
Revta. Thec. colomb. 1(1): 9, text fig. 3, photoplate I, fig. B.
Type-species: *Thecla zigira* Hewitson, 1869, Ill. diurn. Lepid. Lycaenidae 1(4): 124, no. 196; 2(4): pl. 49, figs. 250, 251
(= *Hesperia agrippa* Fabricius, 1793, Entomol. Syst. 3(1): 259, no. 3; synonym), by original designation.
 - = *Treboniana* K. Johnson, Austin, Le Crom & Salazar, 1997
Revta. Thec. colomb. 1(1): 10, text fig. 4, photoplate I, fig. C.
Type-species: *Thecla trebonia* Hewitson, 1870, Equatorial Lepid. Buckley (4): 63-64, no. 114, by original designation.
 - = *Serratonotes* K. Johnson, Austin, Le Crom & Salazar, 1997
Revta. Thec. colomb. 1(1): 11, text fig. 5, photoplate I, fig. D.
Type-species: *Thecla porphyritis* H. H. Druce, 1907, Proc. Zool. Soc. Lond. 1907(3): 593, pl. 35, fig. 2, by original designation.
 - = *Letizia* K. Johnson, Austin, Le Crom & Salazar, 1997
Revta. Thec. colomb. 1(1): 12, text fig. 6, photoplate I, fig. E.
Type-species: *Thecla phoster* H. H. Druce, 1907, Proc. Zool. Soc. Lond. 1907(3): 597, pl. 35, fig. 8 (= *Papilio cyllarusus* Herbst, 1800, in: Jablonsky, Natursyst. Ins. Schmett. 10: 297, pl. 291, figs. 3, 4; synonym), by original designation.
 - = *Robustana* K. Johnson, Austin, Le Crom & Salazar, 1997
Revta. Thec. colomb. 1(1): 12, text fig. 7, photoplate II, fig. A.
Type-species: *Robustana prima* K. Johnson, Austin, Le Crom & Salazar, 1997, Revta Thec. colomb. 1(1): 52 (= *Thecla parvipuncta* Lathy (1926), Ann. Mag. Nat. Hist. (9)17(97): 41; synonym), by original designation.
 - = *Diminutina* K. Johnson, Austin, Le Crom & Salazar, 1997



- Revta. Thec. colomb. 1(1): 13, text fig. 8, photoplate I, fig. F.
Type-species: *Thecla tyriam* H. H. Druce, 1907, Proc. Zool. Soc. Lond. 1907(3): 595, pl. 35, fig. 5, by original designation.
- = *Dindymnites* K. Johnson, Austin, Le Crom & Salazar, 1997
Revta. Thec. colomb. 1(1): 14, text fig. 9, photoplate I, fig. G.
Type-species: *Papilio dindymus* Cramer, 1775, Uitl. Kapellen 1(3): 73; (4): pl. 46, figs. F, G; (8): 152 (index) (= *Papilio sphinx* Fabricius, 1775, Syst. Entomol.: 530, no. 326; synonym), by original designation.
- = *Syedranota* K. Johnson, Austin, Le Crom & Salazar, 1997
Revta. Thec. colomb. 1(1): 16, text fig. 11, photoplate I, fig. I.
Type-species: *Thecla syedra* Hewitson, 1867, Ill. diurn. Lepid. Lycaenidae: 1(3): 108, no. 144; 2(3): pl. 39, figs. 128, 129; pl. 41, fig. 145, by original designation.

- 497. Strephonota tephraeus** (Geyer, 1837)
In: Hübner, Zutr. Samml. exot. Schmett. 5: pl. [165], figs. 959 ♂ D, 960 ♂ V [1836]; 39, no. 480 (1837, name given).
Original Combination: *Bithys Tephraeus*
Type Locality: Not stated; “? (Venezuela)” suggested by W. F. Kirby (1912), *in*: P. Wytsman, Facsimile ed. Hübner Samml. exot. Schmett.: 15, no. 109.
Types: Location of type(s) not known, probably lost. Recorded from Texas by Bordelon and Knudson (2000), News Lepid. Soc. 42(1): 19, pl. 1, figs. 6a, 6b.
- = *faventia* (Hewitson, 1867)
Ill. diurn. Lepid. Lycaenidae 1(3): 106, no. 138 under *tephraeus*; 2(3): pl. 43, figs. 172 ♂ V, 173 ♂ D.
Original Combination: *Thecla Faventia*
Type Locality: “Venezuela”
Types: Holotype in BMNH.
- = *villia* (Hewitson, 1869)
Ill. diurn. Lepid. Lycaenidae 1(4): 126-127, no. 200; 2(4): pl. 51, 272 ♀ V, 273 ♀ D.
Original Combination: *Thecla Villia*
Type Locality: “Amazon” [Brazil]
Types: Holotype in BMNH.
- = *nippia* (Dyar, 1918)
Proc. U. S. Nat. Mus. 54(2239): 337.
Original Combination: *Thecla nippia*
Type Locality: “Sierra de Guerrero, Mexico” [Guerrero]
Types: Holotype (#21201) in USNM.

Genus **Oenomaus** Hübner, [1819]

Verz. bekannt. Schmett. (5): 76. Type-species: *Papilio ortygnus* Cramer, 1779, Uitl. Kapellen 3(21): 84, pl. 243, fig. B ♂ V; (24): 176 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 231, no. 765.

‡“*Draudtiana*” Kesselring & Ebert, [1982]
Revta. nordest. Biologia 2(1/2): 112. Type-species: *Thecla atena* Hewitson, 1867, Ill. diurn. Lepid. Lycaenidae 1(3): 92, no. 90; 2(3): pl. 36, fig. 93, pl. 37, fig. 101, by original designation. This name was listed without a description; a *nomen nudum*.

- 498. Oenomaus ortygnus** (Cramer, 1779)
Uitl. Kapellen 3(21): 84, pl. 243, fig. B ♂ V; (24): 176 (index).

Original

Combination: *Pap[ilio]. Pleb[ejus]. Ru[alis]. Ortygnus*

Type Locality: "Surinamen" "Suriname"

Types: Location of type(s) not known; probably lost.

= *lauta* (Draudt, 1918)

In: Seitz, Grossschmett. Erde 5(281): 768; (268):, pl. 152a, figs. [5] ♂ D, [6] ♂ V.

Original Combination: [*Thecla ortygnus*] form *lauta*

Type Locality: "Steinwüsten von west-Mexiko (Guerrero)"

Types: Location of type(s) not known.

Genus *Parrhasius* Hübner, [1819]

Verz. bekannt. Schmett. (5): 79. Type-species: *Papilio polibetes* Stoll, 1781, Uitl. Kapellen 4(29): 98-99, pl. 341, figs. B, C; (34): 251 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci. Boston 10(2): 242, no. 815.

= *Eupsyche* Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 112, no. 14. Type-species: *Thecla m-album* Boisduval & Le Conte, [1833], Hist. Lépid. Amér. sept. (9): 86-87; (10): pl. 26, figs. 1-5, by original designation.

499. *Parrhasius m-album* (Boisduval & Le Conte, [1833]) (1793)
Hist. Lépid. Amér. sept. (9): 86-87; (10): pl. 26, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V, 4 larva, 5 pupa.

Original Combination: *T[hecla]. M-Album*

Type Locality: "Géorgie"

Types: Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost.

Robbins and Lamas (2006), J. Lepid. Soc. 60(2): 89, established *Thecla m-album* Boisduval & Le Conte, [1833], as a *nomen protectum* (Code Article 23.9.2).

= *†euripides* (Fabricius, 1793)

Entomol. Syst. 3(1): 267, no. 32; cited Jones' Icones 6: pl. 13, fig. 4.

Original

Combination: *H[esperia]. R[urales]. Euripides*

Type Locality: "Indiis"

Types: Location of type(s) not known; probably lost. Robbins and Lamas (2006), J. Lepid. Soc. 60(2): 89, established *Hesperia euripides* Fabricius, 1793, as a *nomen oblitum* (Code Article 23.9.2).

= *psyche* (Boisduval & Le Conte, [1833])

Hist. Lépid. Amér. sept. (9): 88-89; (10): pl. 27, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V, 4 larva, 5, pupa.

Original Combination: [*Thecla*] *Psyche*

Type Locality: "plusieurs parties des États-Unis, surtout en Géorgie"

Types: Described, at least in part, from a John Abbot drawing. Oberthür (1920), Étud. Lépid. Comp. 17: 15, suggested that the types are lost.

Genus *Hypostrymon* Clench, 1961

In: P. Ehrlich and A. Ehrlich, How Know Butterflies: 182, 214. Type-species: *Thecla critola* Hewitson, 1874, Entomol. Mon. Mag. 11(124): 105-106, by original designation.

500. **Hypostrymon critola** (Hewitson, 1874)
Entomol. Mon. Mag. 11(124): 105-106; figured by Hewitson (1877), Ill. diurn. Lepid. Lycaenidae 2(7): pl. 78, figs. 633 ♂ V, 634 ♂ D.
Original Combination: *Thecla Critola*
Type Locality: "Mexico"; defined as "Guaymas, Sonora, Mexico" by Clench (1967), J. Lepid. Soc. 21(3): 184.
Types: Holotype in BMNH.
= *festata* (Weeks, 1891)
Entomol. News 2(6): 102-103; figured by Weeks (1900), Proc. New Engl. Zool. Club 2: pl. 1, figs. 1 ♂ D&V, 2 ♀ D&V, and (1905), Ill. diurn. Lepid. 1: pl. 1, figs. 1 ♂ D&V, 2 ♀ D&V.
Original Combination: *Hypolycaena festata*
Type Locality: "Lower California...near San José del Cabo, at extreme end of the cape" [Baja California Sur, Mexico]
Types: Holotype (#16674) in MCZ.
= *aderces* Clench, 1975
Bull. Allyn Mus. (25): 5-6.
Original Combination: *Hypostrymon aderces*
Type Locality: "Comala, 2100 ft., Colima, Mexico"
Types: Holotype in MGCL.
= *margaretæ* Clench, 1975
Bull. Allyn Mus. (25): 6-7.
Original Combination: *Hypostrymon margaretæ*
Type Locality: "Urias, 2 mi S Mazatlán, Sinaloa, Mexico"
Types: Holotype in CMNH.
‡"ines" Scott, 1986
Butterflies N. Am.: 381, no. 353.
Original Combination: [*Hypostrymon critola*] spring form *ines*
Types: Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

Genus *Erora* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 53. Type-species: *Thecla laeta* W. H. Edwards, 1862, Proc. Acad. Nat. Sci. Philad. 14(1/2): 54, 55-56, no. 3, by original designation.

- = *Androcona* K. Johnson, Eisele & MacPherson, 1993
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (39): 7. Type-species: *Thecla muridosca* Dyar, 1918, Proc. U. S. Nat. Mus. 54(2239): 337, by original designation.
- = *Sarracenota* K. Johnson, Eisele & MacPherson, 1993
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (39): 9. Type-species: *Thecla opisena* H. H. Druce, 1912, Entomol. Mon. Mag. 48(577): 131, pl 10, fig. 3, by original designation.
- = *Necmitoura* K. Johnson, Eisele & MacPherson, 1993
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (39): 10. Type-species: *Necmitoura marcusa* K. Johnson, Eisele & MacPherson, 1993, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (39): 10, photoplate IX, fig. J (= *Thecla senta* Draudt, 1918, in: Seitz, Grossschmett. Erde 5(283): 783; synonym), by original designation.

501. ***Erora laeta*** (W. H. Edwards, 1862)

Proc. Acad. Nat. Sci. Philad. 14(1/2): 54, 55-56, no. 3; figured by W. H. Edwards (1869), Butterflies N. Am. [1](3): pl. Thecla 1, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Thecla laeta*

Type Locality: "near London" [Ontario]

Types: Holotype in CMNH; figured by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): fig. 25 ♂ D&V, and Klots and dos Passos [1982], J. N. Y. Entomol. Soc. 89(4): figs. 21 ♂ D, 22 ♂ V.

= *clothilde* (W. H. Edwards, 1863)

Proc. Entomol. Soc. Philad. 2(1): 14, 15, no. 2.

Original Combination: *Thecla Clothilde*

Type Locality: "near Quebec"; suggested to be "probably at Cap Rouge" by Klots and dos Passos [1982], J. N. Y. Entomol. Soc. 89(4): 306.

Types: Type(s) lost or destroyed.

***502. Erora quaderna** (Hewitson, 1868)

Descr. new Spec. Lycaenidae: 35-36, no. 76; figured by Hewitson (1878), Ill. diurn. Lepid. Lycaenidae 2(8): pl. 83, figs. 703 ♂ V, 704 ♂ D.

Original Combination: *Thecla Quaderna*

Type Locality: "Mexico"; defined as "Tancitiro, Michoacan, Mexico" by Clench (1943), J. N. Y. Entomol. Soc. 51(3): 223.

Types: Holotype in BMNH.

= *attalion* (Godman & Salvin, 1887)

Biol. centr.-amer., Lepid. Rhop. 2(60): 60-61, no. 114; 3(63): pl. 55, figs. 19 ♂ D, 20 ♂ V.

Original Combination: *Thecla attalion*

Type Locality: "Mexico, Orizaba...Veracruz"

Types: Holotype in BMNH.

a. Erora quaderna sanfordi dos Passos, 1940

Am. Mus. Novit. (1052): 1-2.

Original Combination: *Erora laeta sanfordi*

Type Locality: "White Mts., Arizona, 8000 feet"

Types: Holotype in AMNH; figured by Klots and dos Passos [1982], J. N. Y. Entomol. Soc. 89(4): figs. 23 ♂ D, 24 ♂ V.

Subtribe Calycopidina Duarte & Robbins, 2010

Revta. bras. Entomol. 54(1): 48. Type-genus: *Calycopis* Scudder, 1876, Bull. Buffalo Soc. Nat. Sci. 3: 108, no. 12.

Genus Electrostrymon Clench, 1961

In: P. Ehrlich and A. Ehrlich, How Know Butterflies: 185, 218. Type-species: *Papilio endymion* Fabricius, 1775, Syst. Entomol.: 519, no. 324, by original designation.

= *Angulopsis* K. Johnson, 1992

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 41-42, figs. 79, 80C, 80D. Type-species: *Thecla autoclea* Hewitson, 1877, Ill. diurn. Lepid. Lycaenidae 1(7): 194, no. 384; 2(7): pl. 77, figs. 616, 617 (= *Polyommatus hugon* Godart, [1824], in: Ency. méth. 9(Ins.)(2): (602), 640, no. 84; synonym), by original designation.

= *Pendantus* K. Johnson & Kroenlein, 1993

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) 34: 3-4, pl. VI, 1, fig. 2; type-species: *Thecla plusios* Godman & Salvin 1887, Biol. centr.-amer., Lepid. Rhop.: (2): 77-78, no. 158 (= *Tmolus*

denarius Butler & H. Druce, 1872, Cist. Entomol. 1(5): 109; synonym), by original designation.

503. **Electrostrymon hugon** (Godart, [1824])
In: Ency. méth. 9(Ins.)(2): (602), 640, no. 84.
Original Combination: *Polyommatus Hugon*
Type Locality: Not stated; "Brasil" suggested by E. Doubleday (1847), List Spec. lep. Brit. Mus. 2: 32.
Types: Holotype in MNHP.
 Identity of this taxon was established by Faynel and Bálint (2004), Bull. Soc. Entomol. Fr. 109(3): 266-267, fig. 3.
 = *sangala* (Hewitson, 1868)
 Descr. new Spec. Lycaenidae: 35, no. 75; figured by Hewitson (1869), Ill. diurn. Lepid. Lycaenidae 2(4): pl. 54, figs. 314 ♀ D, 315 ♀ V.
Original Combination: *Thecla Sangala*
Type Locality: "Venezuela"
Types: Lectotype (#Rh1016) in BMNH, designated by K. Johnson (1992), Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22)(vol. II): 42.
 = *cyphara* (Hewitson, 1874)
 Entomol. Mon. Mag. 11(124): 106; figured by Hewitson (1877), Ill. diurn. Lepid. Lycaenidae 2(7): pl. 74, figs. 579 ♂ V, 580 ♂ D.
Original Combination: *Thecla Cyphara*
Type Locality: "Panama"; suggested to be "either Isla Taboga or Ciudad Panamá" by Clench (1967), J. Lepid. Soc. 21(3): 184.
Types: Holotype in BMNH.
 = *autoclea* (Hewitson, 1877)
 Ill. diurn. Lepid. Lycaenidae 1(7): 194, no. 384; 2(7): pl. 77, figs. 616 ♂ V, 617 ♂ D.
Original Combination: *Thecla Autoclea*
Type Locality: "Nicaragua (Chontales, Belt)"
Types: Lectotype (#Rh1014) in BMNH, designated by K. Johnson (1992), Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22)(vol. II): 42.
 = *callides* (Dyar, 1914)
 Proc. U. S. Nat. Mus. 47(2050): 151.
Original Combination: *Thecla callides*
Type Locality: "La Chorrera...Trinidad River" [Panama]
Types: Syntypes (#15760) in USNM.
 Schaus (1920), Entomol. News 31(6): 176, placed this taxon in the synonymy of *sangala*.
 504. **Electrostrymon joya** (Dognin, 1895)
 Annls. Soc. Entomol. Belg. 39(2): 106.
Original Combination: *Thecla Joya*
Type Locality: "Loja et environs" [Ecuador]
Types: Syntypes in BMNH.
 = *canus* (H. H. Druce, 1907)
 Proc. Zool. Soc. Lond. 1907(3): 624.
Original Combination: *Thecla canus*
Type Locality: "Mexico: Chilpancingo, Guerrero, 4600 feet"
Types: Holotype in BMNH.
 = *nubes* (H. H. Druce, 1907)
 Proc. Zool. Soc. Lond. 1907(3): 625.
Original Combination: *Thecla nubes*

- Type Locality:** "Tobago I. (Trinidad)"
Types: Holotype in UMO.
- = *callao* (H. H. Druce, 1907)
 Proc. Zool. Soc. Lond. 1907(3): 611, pl. 36, fig. 11 ♂
 D&V.
Original Combination: *Thecla callao*
Type Locality: "Callao, Peru"
Types: Syntypes in BMNH.
- = *rugatus* (H. H. Druce, 1907)
 Proc. Zool. Soc. Lond. 1907(3): 611-612.
Original Combination: *Thecla rugatus*
Type Locality: "Vina, N. W. Peru, 5500 ft."
Types: Syntypes in BMNH.
- = *bunnirae* (Dyar, 1918)
 Proc. U. S. Nat. Mus. 54(2239): 336.
Original Combination: *Thecla bunnirae*
Type Locality: "Sierra de Guerrero, Mexico" [Guerrero]
Types: Holotype (#21199) in USNM.
 Schaus (1920), Entomol. News 31(6): 176, placed this
 taxon as a synonym of *canus*.
- = *shargeli* (K. Johnson, [1990])
 Insecta Mundi 3(3): 201, figs. 2E ♀ D&V, 3D ♀ genitalia
 (holotype).
Original Combination: *Tergissima shargeli*
Type Locality: "Chile, Santiago"
Types: Holotype in MNHP.
505. **Electrostrymon angelia** (Hewitson, 1874)
 a. **Electrostrymon angelia angelia** (Hewitson, 1874)
 Ill. diurn. Lepid. Lycaenidae 1(6): 162, no. 288; 2(6): pl.
 63, figs. 439 ♂ V, 440 ♂ D.
Original Combination: *Thecla Angelia*
Type Locality: "Cuba and Jamaica"; lectotype from
 "Cuba."
Types: Lectotype in BMNH, designated by W. Comstock
 and Huntington (1943), Ann. N. Y. Acad. Sci. 45(2): 68.
 Recorded from the United States (Key West, Florida) for
 the first time by Anderson (1974), J. Lepid. Soc. 28(4):
 354, fig. 1, and now widely established in southern
 Florida.
506. **Electrostrymon guzanta** (Schaus, 1902)
 Proc. U. S. Nat. Mus. 24(1262): 420-421.
Original Combination: *Thecla Guzanta*
Type Locality: "Jalapa, Orizaba, Mexico" [Veracruz]
Types: Holotype (#5952) in USNM.
 Recorded from Texas by A. Warren *et al.* (2004), News
 Lepid. Soc. 46(1): 28-30, 15 figs.
- = *aurantiaca* (K. Johnson, 1992)
 Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point)
 (22)(vol. II): 198, figs. 191q ♂ D&V (holotype), 229a ♂
 genitalia, 229b ♀ genitalia.
Original Combination: *Arases aurantiaca*
Type Locality: "Mexico, Chiapas State, Ochuc"
Types: Holotype in MGCL.

Genus **Calycopsis** Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 108, no. 12. Type-species: *Rusticus poeas* Hübner, [1811], Samml. exot. Schmett. 1: pl. [101], figs. 1, 2, 3, 4 (= *Hesperia cecrops* Fabricius, 1793, Entomol. Syst. 3(1): 270, no. 41; synonym), by original designation.

- = *Calystryma* W. D. Field, 1967
Proc. U. S. Nat. Mus. 123(3611): 1-2. Type-species: *Calystryma blora* W. D. Field, 1967, Proc. U. S. Nat. Mus. 123(3611): 9-10, no. 3, pl. 1, figs. 5, 6, pl. 2, figs. 5, 6, figs. 3A, 3B, 3C, 3D, 3E, by original designation.
- = *Tergissima* K. Johnson, 1988
Insecta Mundi 2(1): 30, figs. 1, 3C, 3H, 4E, 4F, 5C. Type-species: *Tergissima mosconiensis* K. Johnson, 1988, Insecta Mundi 2(1): 34, figs. 1A, 1B, 1C, 1D, 3Ca-b, 3H, 4E (= *Thecla caulonia* Hewitson, 1877, Ill. diurn. Lepid. Lycaenidae 1(7): 188, no. 366; 2(7): pl. 75, figs. 587, 588; synonym), by original designation.
- = *Femniterga* K. Johnson, 1988
Insecta Mundi 2(1): 36, 38, figs. 2, 3D, 3G, 4A, 4B, 4E, 4F, 4G, 4H, 5D. Type-species: *Femniterga notacastanea* K. Johnson, 1988, Insecta Mundi 2(1): 38-39, figs. 2A, 2B, 2C, 2D, 3D, 3G, 4A, 4G (= *Thecla caulonia* Hewitson, 1877, Ill. diurn. Lepid. Lycaenidae 1(7): 188, no. 366; 2(7): pl. 75, figs. 587, 588; synonym), by original designation.
- = *Serratofalca* K. Johnson, 1991
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 14, figs. 6, 29, 30. Type-species: *Thecla cerata* Hewitson, 1877; Ill. diurn. Lepid., Lycaenidae 1(7): 191, no. 374, 2(7): pl. 76, figs. 607-608, by original designation.
- = *Klaufera* K. Johnson, 1991
Rep. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 15-16, figs. 7, 31, 32. Type-species: *Thecla pisis* Godman & Salvin, 1887, Biol. centr.-amer., Lepid. Rhop. 2(61): 84, no. 175; 3(65): pl. 57, figs. 24, 25, by original designation.
- = *Gigantofalca* K. Johnson, 1991
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 16, figs. 8, 33, 34, 35. Type-species: *Gigantofalca stacya* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 17, figs. 8A, 8B, 33, 34, by original designation.
- = *Distissima* K. Johnson, 1991
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 14. Type-species: *Distissima spenceri* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 18, figs. 9A, 9B, 36, 37, by original designation.
- = *Serratoterga* K. Johnson, 1991
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 19, figs. 10, 41, 42, 43. Type-species: *Serratoterga larsoni* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 20, figs. 10A, 10B, 40, 41 (= *Thecla pisis* Godman & Salvin, 1887, Biol. centr.-amer., Lepid. Rhop. 2(61): 84, no. 175; 3(65): pl. 57, figs. 24, 25; synonym), by original designation.
- = *Terminospinissima* K. Johnson, 1991
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 21, figs. 11, 44, 45. Type-species: *Terminospinissima serratissima* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 22, figs. 11, 44, 45 (= *Thecla cissusa* Hewitson, 1877, Ill. diurn. Lepid. Lycaenidae 1(7): 188-189, no. 367; 2(7): pl. 75, figs. 589, 590; synonym), by original designation.
- = *Furcovalva* K. Johnson, 1991
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 22-23, figs. 12, 46, 47. Type-species: *Furcovalva extensa* K. Johnson,

- 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 23-24, figs. 12A, 12B, 46, 47, by original designation.
- = *Cyanodivida* K. Johnson, 1991
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 24, figs. 13, 48, 49, 50, 5. Type-species: *Cyanodivida fornoi* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 25, figs. 13A, 13B, 48, 49, by original designation.
- = *Morphissima* K. Johnson, 1991
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 26-27, figs. 14, 52, 53. Type-species: *Morphissima scalpera* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 27, figs. 14B, 14C, 52, 53 (= *Calycopis lerbela* W. D. Field 1967, Proc. U. S. Nat. Mus. 119(3552): 12, figs. 6, 20f, 26, 57, 58, 59, 60; synonym), by original designation.
- = ‡*Fieldia* K. Johnson, 1991
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 28, figs. 15, 54, 55. Type-species: *Fieldia yungas* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 28-29, figs. 15B, 15C, 54, 55 (= *Thecla caulonia* Hewitson, 1877, Ill. diurn. Lepid. Lycaenidae 1(7): 188, no. 366; 2(7): pl. 75, figs. 587, 588; synonym), by original designation.
Preoccupied by *Fieldia* Niculescu, 1979, Revue vėrviėt. Hist. Nat. 36(1-3): 3.
- = *Kroenleina* K. Johnson, 1991
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 31, figs. 18, 60, 61, 62, 63. Type-species: *Kroenleina panornata* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 32, figs. 18A, 18B, 60, 61, by original designation.
- = *Antrissima* K. Johnson, 1991
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 33, figs. 19, 64, 65, 66, 67. Type-species: *Antrissima varicolor* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 33-34, figs. 19A, 19B, 64, 65 (= *Thecla caulonia* Hewitson, 1877, Ill. diurn. Lepid. Lycaenidae 1(7): 188, no. 366; 2(7): pl. 75, figs. 587, 588; synonym), by original designation.
- = *Reversustus* K. Johnson, 1991
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 34-35, figs. 20, 68, 69, 70, 71. Type-species: *Thecla puppius* Godman & Salvin, 1887, Biol. centr.-amer., Lepid. Rhop. 2(61): 84 (footnote), by original designation.
- = *Mercedes* K. Johnson, 1991
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 36, figs. 21, 72, 73. Type-species: *Thecla demonassa* Hewitson, 1868, Descr. new Spec. Lycaenidae: 25, no. 53, by original designation.
- = *Argentostriatus* K. Johnson, 1991
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 37-38, figs. 22, 74, 75. Type-species: *Thecla tamos* Godman & Salvin, 1887, Biol. centr.-amer., Lepid. Rhop. 2(61): 79-80, no. 163, 3(60): pl. 52, figs. 16, 17, by original designation.
- = *Profieldia* K. Johnson, 1992
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (23): 12. Type-species: *Fieldia yungas* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 28-29, figs. 15B, 15C, 54, 55 (= *Thecla caulonia* Hewitson, 1877, Ill. diurn. Lepid. Lycaenidae 1(7): 188, no. 366; 2(7): pl. 75, figs. 587, 588; synonym), as a replacement name. Proposed to replace *Fieldia* K. Johnson, 1991, preoccupied (Code Articles 60.3, 67.8).

507. **Calycopis cecrops** (Fabricius, 1793)
Entomol. Syst. 3(1): 270, no. 41; cited Jones' Icones 6: pl. 21, fig. 2.
Original Combination: *H[esperia]. R[urales]. Cecrops*
Type Locality: "Indiis"; suggested to be "one of the states along the eastern coast of the United States between Virginia and Georgia, and probably the latter" by W. D. Field (1967), Proc. U. S. Nat. Mus. 119(3552): 19; neotype from "Savannah, Chatham County, Georgia."
Types: Neotype in USNM, designated by Robbins and Lamas (2006), J. Lepid. Soc. 60(2): 88.
= *poeas* (Hübner, [1811])
Samml. exot. Schmett. 1: pl. [101], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Rusticus Poeas*
Type Locality: Not stated; suggested to be "Amer. sept. et Centr." by W. F. Kirby (1908), in: P. Wytzman, Facsimile ed. Hübner Samml. exot. Schmett. 3(addit. notes): 71; subsequently suggested to be "one of the states along the eastern coast of the United States between Virginia and Georgia, and probably the latter" by W. D. Field (1967), Proc. U. S. Nat. Mus. 119(3552): 19.
Types: Location of type(s) not known.
= *nivnix* (K. Johnson, Eisele & MacPherson, 1990)
Bulletin of the Allyn Museum (130): 28-29, figs. 12B, ♀ D&V, 37 ♀ genitalia (holotype)
Original Combination: *Strymon nivnix*
Type Locality: "Cadenta (230A), Mendoza Province, 4-5000 ft." apparently in error. [La Rioja, Argentina]
Types: Holotype in MNHP.
This taxon is a composite; Robbins and Lamas (2002), Revta. bras. Zool. 19(supl. 1): 202-203, excluded the genitalia and forewings from the holotype.
= ‡"gottschalki" (A. Clark & L. Clark, 1938)
Proc. Biol. Soc. Wash. 51(1): 3.
Original Combination: *Strymon cecrops* ab. *gottschalki*
Type Locality: "Scout troop 54 Cabin, Fort Lewis Mountain, Roanoke County, Virginia"
Types: "Holotype" (#52256) in USNM; figured by A. Clark and L. Clark (1951), Smithsonian Misc. Coll. 116(7): frtspc., fig. 7 ♂ V.
508. **Calycopis isobea** (Butler & H. Druce, 1872)
Cist. Entomol. 1(5): 108; figured by Butler (1873), Lepid. Exot. (13): pl. 57, fig. 2 ♂ D.
Original Combination: *T[molus]. Isobea*
Type Locality: "Cartago, Costa Rica" implied from the title and introduction to the paper.
Types: Lectotype (#Rh913) in BMNH, designated by W. D. Field (1967), Proc. U. S. Nat. Mus. 119(3552): 19-20.
= *escuintla* (K. Johnson, 1991)
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 32, figs. 18C ♂ genitalia, 62 ♂ D&V, 63 ♀ D&V (holotype).
Original Combination: *Kroenleina escuintla*
Type Locality: "mountains above Escuintla, 700m, sta. #14, Chiapas State, Mexico"

Types: Holotype in CMNH.

The status of this taxon requires further investigation.

Genus **Kisutam** K. Johnson, 1993

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) 34: 31. Type-species: *Thecla syllis* Godman & Salvin, 1887, Biol. centr.-amer., Lepid. Rhop. 2(61): 92, no. 197; 3(66): pl. 58, figs. 6, 7, by original designation.

509. **Kisutam syllis** (Godman & Salvin, 1887)

Biol. centr.-amer., Lepid. Rhop. 2(61): 92, no. 197; 3(66): pl. 58, figs. 6 ♂ D, 7 ♂ V (lectotype).

Original Combination: *Thecla syllis*

Type Locality: "Mexico,

Presidio...Cordova...Jalapa...Guatemala, San Gerónimo...central valleys...Nicaragua, Chontales"; lectotype from "San Geronimo, Verapaz" [Guatemala]

Types: Lectotype in BMNH, designated by K. Johnson & Kroenlein, 1993, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) 34: 33.

Recorded from Texas by Bordelon (2009), News Lepid. Soc. 51(supplement S1): 77, and Rickard (2010), News Lepid. Soc. 52(4): 141, 3 figs..

= *politus* (H. Druce, 1907)

Proc. Zool. Soc. Lond. 1907 (3): 625-626, 22 ♂ D&V (lectotype), 23 ♀ D&V.

Original Combination: *Thecla politus*

Type Locality: "Santarem" [Brazil, Santarém, Pará]

Types: Lectotype in BMNH, designated by K. Johnson, 1991 Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 42

= *subisobea* Strand, 1918

Soc. Entomol. 33(10): 38-39.

Original Combination: *Thecla*

isobea ?var. *subisobea*

Type Locality: "Costa Rica"

Types: Holotype in MTD.

= *simplica* Johnson, 1993

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) 32: 12-13, fig. 4E ♂ genitalia, fig. 5D ♀ genitalia, fig. 9 map, pl. 1, fig. A ♂ D&V (holotype), ♀ D&V.

Original Combination: *Gigantorubra simplica*

Type Locality: Brazil, Santarém [Pará]

Types: Holotype in AMNH.

Subfamily **Polyommatae** Swainson, 1827

Phil. Mag. (2)1(3): 187 (as "Polyommatae"). Type-genus: *Polyommatus* Latreille, 1804, Nouv. Dict. Hist. Nat. 24(Tab.): 185, no. 474, 200. I.C.Z.N. *Opinion 270* placed *Polyommatus* on the *Official List of Generic Names in Zoology* as name no. 689.

Tribe **Polyommata** Swainson, 1827

Genus **Lampides** Hübner, [1819]

Verz. bekannt. Schmett. (5): 70. Type-species: *Papilio boeticus* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 789, no. 226, by designation of Grote (1873), Bull. Buffalo Soc. Nat. Sci. 1(3): 179.

= ‡*Cosmolyce* Toxopeus, 1927

Tijdschr. Entomol. 70(3/4): 268 (nota). Type-species: *Papilio boeticus* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 789, no.

- 226, by monotypy. A junior objective synonym of *Lampides* Hübner, [1819].
 = ‡*Lampidella* Hemming, 1933
 Entomol. 66(845): 224. Type-species: *Papilio boeticus* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 789, no. 226, by original designation. A junior objective synonym of *Lampides* Hübner, [1819].

- 510. *Lampides boeticus* (Linnaeus, 1767)**
 Syst. Nat. (ed. 12) 1(2): 789, no. 226.
Original Combination: *P[apilio]*. *P[lebejus Ruralis]*. *Boeticus*
Type Locality: "Barbarie" [Algeria]
Types: Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 304.
 Most of the Palaearctic synonymy is not included.
 = *damoetes* Fabricius, 1775
 Syst. Entomol.: 526, no. 350.
Original
Combination: *P[apilio]*. *P[lebejus]*. *R[uralis]*. *Damoetes*
Type Locality: "nova Hollandia" [Australia]
Types: Syntype in BMNH.
 = *coluteae* Fuessly, 1775
 Verz. bekannt. schweiz. Ins.: 31, no. 594, fig. 1(2) ♂
 D&V.
Original Combination: *Papilio Coluteae*
Type Locality: "Schweizerischen" implied from the title of the book [Switzerland]
Types: Location of type(s) not known.
 = *archias* Cramer, 1777
 Uitl. Kapellen 2(10): 129, pl. 181, fig. C ♂ V; (16): 147 (index).
Original
Combination: *Pap[ilio]*. *Pleb[ejus]*. *Rural[is]*. *Archias*
Type Locality: "Surinamen" "Suriname"
Types: Type(s) probably lost.
 = *pisorum* Fourcroy, 1785
 In: Fourcroy, Entomol. Paris 2: Ent. Paris.: 242, no. 25.
Original Combination: *P[apilio]*. *pisorum*
Type Locality: Not stated; "Parisiensis" implied from the title of the work.
Types: Location of types not known.

Genus *Leptotes* Scudder, 1876

- Bull. Buffalo Soc. Nat. Sci. 3: 124, no. 28. Type-species: *Lycaena theonus* Lucas, 1856, in: Sagra, Hist. Cuba 7(2): 611-612, pl. Art. 16, figs. 8, 8A, 8B (= *Papilio cassius* Cramer, 1775, Uitl. Kapellen 1(2): 36-37, pl. 23, figs. C, D; (8): 152 (index); subspecies), by original designation.
 = *Cyclyrus* Butler, [1987]
 Proc. Zool. Soc. Lond. 1896(4): 830. Type-species: *Polyommatus webbianus* Brullé, 1840, in: Webb and Berthelot, Canaries (Ins.): 93, pl. 4, figs. 1, 1A, by original designation.
 = *Syntarucus* Butler, [1901]
 Proc. Zool. Soc. Lond. 1900(4): 929. Type-species: *Papilio telicanus* Lang, 1789, Verz. Schmett. Gegend. Augsburg (2nd ed.): 47-48, nos. 387-389 (= *Papilio pirithous* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 790, no. 235; synonym), by monotypy.
 = *Syntarucoides* Kaye, 1904

Trans. Entomol. Soc. Lond. (4)1904(2): 190. Type-species: *Papilio cassius* Cramer, 1775, Uitl. Kapellen 1(2): 36-37, pl. 23, figs. C, D; (8): 152 (index), by original designation.

= ‡*Langia* Tutt, 1906

Nat. Hist. Brit. Butterflies 1(12): 314. Type-species: *Papilio telicanus* Lang, 1789, Verz. Schmett. Gegend. Augsburg (2nd ed.): 47 (= *Papilio pirithous* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 790, no. 235: synonym), by original designation. Preoccupied by *Langia* Moore, 1872, Proc. Zool. Soc. Lond. 1872: 567, and a junior objective synonym of *Syntarucus* Butler, [1901].

= ‡*Raywardia* Tutt, 1908

Nat. Hist. Brit. Butterflies 2(25): 484. Type-species: *Papilio telicanus* Lang, 1789, Verz. Schmett. Gegend. Augsburg (2nd ed.): 47 (= *Papilio pirithous* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 790, no. 23; synonym), as a replacement name. Proposed to replace *Langia* Tutt, 1906, preoccupied (Code Articles 60.3, 67.8). A junior objective synonym of *Syntarucus* Butler, [1901].

cassius group Bálint & K. Johnson, 1995

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) 44: 4-5, 16.

***511. Leptotes cassius** (Cramer, 1775)

Uitl. Kapellen 1(2): 36-37, pl. 23, figs. C ♀ D, D ♀ V; (8): 152 (index).

Original

Combination: *Pap[ilio]. Pleb[ejus]. Rura[is]. Cassius*

Type Locality: "Suriname" "Surinam"

Types: Type(s) probably lost.

a. Leptotes cassius theonus (Lucas, 1857)

In: Sagra, Hist. Cuba 7(2): 611-612, pl. Art. 16, figs. 8 ♂ D, 8a ♂ V, 8b ♀ D.

Original Combination: *Lycaena Theonus*

Type Locality: "l'île de Cuba"

Types: Type(s) probably in MNHP.

= *floridensis* (Morrison, 1873)

Bull. Buffalo Soc. Nat. Sci. 1(4): 187-188.

Original Combination: *Lycaena cassius* var. *floridensis*

Type Locality: "Key West, Florida" [Monroe County]

Types: Syntype (#25845) in MCZ, other syntypes may be in USNM. W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 107, noted that a syntype is in the CMNH.

b. Leptotes cassius cassidula (Boisduval, 1870)

Consid. Lépid. Guat.: 16-17.

Original Combination: *Lycaena Cassidula*

Type Locality: "Honduras"

Types: Type(s) may be in BMNH or MNHP.

= *striata* (W. H. Edwards, 1877)

Field & Forest 3(5): 88.

Original Combination: *Lycaena Striata*

Type Locality: "San Antonio" [Bexar County, Texas]

Types: Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 358, fig. 2 ♂ D&V.

marina group Bálint & K. Johnson, 1995

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) 44: 4-5.

512. **Leptotes marina** (Reakirt, 1868)
 Proc. Acad. Nat. Sci. Philad. 20(1/2): 87, no. 51.
Original Combination: *Lycaena Marina*
Type Locality: "Orizaba, Mexico...Mexico, near Vera Cruz"
 [Veracruz]
Types: Syntypes in FMNH.
 = ‡"violacea" Gunder, 1925
 Entomol. News 36(1): 6, no. 10, pl. 1, fig. U ♀ D
 ("holotype").
Original Combination: *Leptotes marina* ab.
 ♀ *violacea*
Type Locality: "Oak Glen, Riverside County,
 California"
Types: "Holotype" in AMNH.
 = ‡"burdicki" Henne, 1935
 Entomol. News 46(4): 100, fig. 1 ♂ V ("holotype").
Original Combination: *Leptotes*
marina form *burdicki*
Type Locality: "Lennox, Los Angeles County,
 California"
Types: "Holotype" in UCMC.
 = ‡"reakirti" W. D. Field, 1936
 J. Entomol. & Zool. 28(2): 26.
Original Combination: *Leptotes marina* female
 f. *reakirtii*
Type Locality: "Mesa Butte, Arizona" [Coconino
 County]
Types: "Holotype" in USNM.

Genus *Zizina* Chapman, 1910

Trans. Entomol. Soc. Lond. (4)1910(4): 482. Type-species: *Polyommatus labradus* Godart, [1824];
 Ency. méth. 9(Ins.)(2): (612), 680, no. 197, by original designation.

513. **Zizina otis** (Fabricius, 1787)
 a. **Zizina otis otis** (Fabricius, 1787)
 Mantissa Ins. 2: 73, no. 689.
Original
Combination: *P[apilio]*. *P[lebejus]*. *R[uralis]*. *Otis*
Type Locality: "China"
Types: Syntype in ZMUC.
 This species was reported for Hawaii by Snyder et al.
 (2008), News Lepid. Soc. 50(1): 3-6, 11 figs.
 = *sangra* (Moore, [1866])
 Proc. Zool. Soc. Lond. 1865(3): 772, no. 64, pl. 41,
 fig. 8 ♂ D&V.
Original Combination: *P[olyommatus]*. *sangra*
Type Locality: "Bengal" [India/Bangladesh]
Types: Syntype(s) in BMNH.
 = *oriens* (Butler, 1883)
 Ann. Mag. nat. Hist. (5) 11 (66): 403, 417, no. 64.
Original Combination: *Zizera oriens*
Type Locality: "Pasananca valley, Mindanao"
 [Philippines]
Types: Holotype in BMNH.
 = *parasangra* Toxopeus, 1929
 Tijdschr. Entomol. 72(3/4): 206.

Original Combination: *Zizina parasangra*

Type Locality: "Küstengebiet von Nordost-Sumatra (Deli)" [Indonesia]

Types: Location of holotype not known.

= *kuli* Toxopeus, 1929

Tijdschr. Ent. 72(3/4): 207.

Original Combination: *Zizina kuli*

Type Locality: "Deli, Sumatra" [Indonesia]

Types: Location of type(s) not known.

= *annetta* Toxopeus, 1929

Tijdschr. Ent. 72(3/4): 207.

Original Combination: *Zizina annetta*

Type Locality: "Perapat, am Toba-See" [Indonesia]

Types: Location of type(s) not known.

= *soeriomataram* Kalis, 1938

Ent. Rundsch. 55(19): 197.

Original Combination: *Zizina soeriomataram*

Type Locality: "Kangean" [Kangean Islands, Indonesia]

Types: Location of type(s) not known.

Genus *Brephidium* Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 123, no. 27. Type-species: *Lycaena exilis* Boisduval, 1852, Annls. Soc. Entomol. Fr. (2)10(2): 294, no. 29, by original designation.

514. *Brephidium exilis* (Boisduval, 1852)

a. *Brephidium exilis exilis* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 294, no. 29; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 236, fig. 1935 ♂ [not ♀] D&V.

Original Combination: *Lycaena exilis*

Type Locality: "Californie" implied from the title of the paper; defined as "Sacramento, Sacramento County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 13.

Types: Holotype in USNM; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 13, figs. 51 ♂ D, 52 ♂ V.

Species-genus gender conformation is *exile*.

= *fea* (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 205, 211, no. 11.

Original Combination: *Lycaena Fea*

Type Locality: "near Waco, Texas" [McLennan County]

Types: Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 357, fig. 1 ♂ D&V; paralectotype figured by W. Holland (1898), Butterfly Book: pl. 32, fig. 4 ♂ D.

= ♀ "coolidgei" Gunder, 1925

Entomol. News 36(1): 2, no. 1, pl. 1, fig. L ♀ V ("holotype").

Original Combination: *Brephidium exilis* ab. ♀ *coolidgei*

Type Locality: "Los Angeles, Los Angeles County, California"

Types: "Holotype" in AMNH; figured by J. A. Comstock (1927), *Butterflies Calif.*: pl. 53, fig. 8 ♀ V.

515. **Brephidium pseudofea** (Morrison, 1873)
Opler and A. Warren (2002), *Sci. Names List Butterflies N. A.*: 28, discussed the relationship between *B. exilis* and *B. pseudofea*, and the status of the taxon *isophthalma* (Herrich-Schäffer, 1862) as a subspecies of *B. exilis*.
- a. **Brephidium pseudofea pseudofea** (Morrison, 1873)
Bull. Buffalo Soc. Nat. Sci. 1(4): 186-187.
Original Combination: *Lycaena pseudofea*
Type Locality: "Key West, Florida" [Monroe County]
Types: Syntype (#15975) in MCZ, others may be in USNM.
- b. **Brephidium pseudofea insularis** Pavulaan & Gatrell, 1999
Tax. Rep. Int. Lepid. Surv. 1(7): 3-4, figs. 6 ♂ V, 7 ♂ D&V (holotype), 8 ♀ D&V, 9 ♂ V, 10 ♂ V, 11 ♀ V, 12 ♀ V.
Original Combination: *Brephidium isophthalma insularis*
Type Locality: "Rt 21 near Beaufort, Beaufort County, South Carolina"
Types: Holotype in CMNH.
= ‡"carolina" Pavulaan, 1993
S. Lepid. News 15(4): 37, figs. 2 ♂ V, 3 ♀ D, 4 ♂&♀ D.
Original Combination: *Brephidium isophthalma pseudofea* form *carolina*
Type Locality: "near Beaufort, Beaufort Co., SC" [South Carolina]
Types: "Syntypes" in H. Pavulaan collection and MGCL; some paratypes of *B. p. insularis* are syntypes of "carolina."

Genus *Zizula* Chapman, 1910

Trans. Entomol. Soc. Lond. (4)1910(4): 483. Type-species: *Lycaena gaika* Trimen, 1862, Trans. Entomol. Soc. Lond. (3)1(4): 403-404, by original designation.

516. **Zizula cyna** (W. H. Edwards, 1881)
Trans. Am. Entomol. Soc. 9(1): 3.
Original Combination: *Lycaena Cyna*
Type Locality: "San Antonio, Texas" [Bexar County]
Types: Holotype in CMNH, figured by W. Holland (1931), *Butterfly Book* (rev. ed.): pl. 68, fig. 1 ♀ D, and F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): fig. 3 ♀ D&V.
= *tulliola* (Godman & Salvin, 1887)
Biol. centr.-amer., Lepid. Rhop. 2(64): 108, no. 12; 3(66): pl. 58, figs. 28 ♂ D, 29 ♂ V.
Original Combination: *Lycaena tulliola*
Type Locality: "Mexico, Milpas, Ventanas...Cordova...Jalapa...Guatemala...San Gerónimo, Dueñas, Zapote"; figured specimen is from "San Gerónimo, Guatemala."
Types: Holotype in BMNH.
= *mela* (Strecker, 1900)
Lepid. Rhop. Het. (suppl. 3): 20.

Original Combination: *Lycaena Mela*

Type Locality: "Colorado...Bastrop,
Tex...Chihuahua...Musso, Colombia, S. America"

Types: Syntypes in FMNH.

Genus **Cupido** Schrank, 1801

Fauna boic. 2(1): 153, no. 201. Type-species: *Papilio minimus* Fuessly, 1775, Verz. bekannt. schweiz. Ins.: 31, no. 599, by designation of I.C.Z.N. *Opinion* 503. Kudrna (1986), Butterflies Europe 8: 194, and others since, considered *Everes* a subgenus or synonym of *Cupido* Schrank, 1801.

= *Zizera* Moore, [1881]

Lepid. Ceylon 1(2): 78. Type-species: *Papilio alsus* [Denis & Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 184, no. 9 (= *Papilio minimus* Fuessly, 1775, Verz. bekannt. schweiz. Ins.: 31, no. 599; synonym).

Subgenus **Everes** Hübner, [1819]

Verz. bekannt. Schmett. (5): 69. Type-species: *Papilio amyntas* [Denis & Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 185, no. 18 (= *Papilio argiades* Pallas, 1771, Reise verschied. Prov. Russisch. Reichs 1, Anhang: 472, no. 66; homonym), by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 56. I.C.Z.N. *Opinion* 503 placed this name on the *Official List of Generic Names in Zoology* as name no. 1249.

= *Binghamia* Tutt, 1908

Nat. Hist. Brit. Butterflies 3(1): 41-42. Type-species: *Hesperia parrhasius* Fabricius, 1793, Entomol. Syst. 3(1): 289, no. 108, by original designation.

= *Tiora* Evans, 1912

J. Bombay Nat. Hist. Soc. 21(3): 984. Type-species: *Papilio sebrus* Hübner, [1824], Samml. europ. Schmett. 1: pl. 172, figs. 851-854 (= *Lycaena decolorata* Staudinger, 1886, Stettiner Entomol. Ztg. 47(4-6): 204; homonym), by designation of Hemming (1929), Ann. Mag. Nat. Hist. (10)3(15): 242.

= *Ununcula* van Eecke, 1915

Zoöl. Meded. 1(1): 29-30, pl. 2, figs. 6, 6a, 6b, 6c, 7, 7a, 7b. Type-species: *Papilio argiades* Pallas, 1771, Reise verschied. Prov. Russisch. Reichs 1, Anhang: 472, no. 66, by designation of Hemming (1929), Ann. Mag. Nat. Hist. (10)3(15): 243.

517. **Cupido comyntas** (Godart, [1824])

a. **Cupido comyntas comyntas** (Godart, [1824])

In: Ency. méth. 9(Ins.)(2): (608), 660, no. 147; figured by Boisduval and Le Conte [1835], Hist. Lépid. Amér. sept. (12): pl. 36, figs. 6 ♂ D, 7 ♂ V.

Original Combination: *Polyommatus Comyntas*

Type Locality: "l'Amérique septentrionale"

Types: Holotype in MNHP.

= ‡"watermani" (Nakahara, 1926)

Bull. Brooklyn Entomol. Soc. 20(5): 224.

Original Combination: *Everes comyntas* ab. *watermani*

Type Locality: "Ithaca, N. Y." [Tompkins County, New York]

Types: "Holotype" in USNM.

= ‡"meinersi" (W. D. Field, 1938)

J. Kansas Entomol. Soc. 11(4): 132-133.

Original Combination: *Everes comyntas* f. *meinersi*

Type Locality: "Lawrence, Kansas" [Douglas County]

Types: "Holotype" in USNM.

The text clearly indicates that this taxon was described as an individual variant.

- b. **Cupido comyntas texana** (F. Chermock, 1945)
Can. Entomol. 76(11): 215.

Original Combination: *Everes texana*

Type Locality: "near San Antonio, Texas" [Bexar County]

Types: Holotype in USNM.

Species-genus gender conformation is *texanus*.

- c. **Cupido comyntas sissona** (W. G. Wright, 1905)
Butterflies W. Coast: 64, no. 400; 232, no. 400, pl. 30, fig. 400 ♀ V (holotype).

Original Combination: [*Lycaena*] *Sissona*; *Lycaena Sissona* n. s.

Type Locality: "Northern California" "Sisson, Cal." [Mount Shasta City, Siskiyou County, California]

Types: Lectotype in CAS (#4319), designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 37.

The status of this taxon was determined by Austin (2002), J. Lepid. Soc. 56(4): 294.

= *pacnowe* Scott & Kondla, 2006

Papilio (n.s.) 12: 48, pl. 4, 1st row left center ♂ D&V (holotype).

Original Combination: *Cupido* (= *Everes*) *comyntas pacnowe*

Type Locality: "Adair Village, Benton Co. Ore." [Oregon]

Types: Holotype in BMNH.

518. **Cupido amyntula** (Boisduval, 1852)

- a. **Cupido amyntula montanorum** (Austin, 1998)
Syst. W. N. Am. Butterflies (45): 549, figs. 49 ♂ D, 50 ♂ V (holotype); 51 ♀ D, 52 ♀ V.

Original Combination: *Everes amyntula montanorum*

Type Locality: "Nevada: Washoe County; Carson Range, Tahoe Meadows, Nevada State Route 431, 2.4 road miles southwest of Mount Rose Summit, 2590 m, T17N R18E S36 on USGS Mt. Rose, Nev. 15' quadrangle"

Types: Holotype in MGCL.

- b. **Cupido amyntula amyntula** (Boisduval, 1852)
Annls. Soc. Entomol. Fr. (2)10(2): 294, no. 28; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 236, fig. 1938 ♂ D&V.

Original Combination: *Lycaena amyntula*

Type Locality: "Californie" from the title of the paper; defined as "Bucks Lake Road at White Creek, 2 road miles W. of Quincy, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 13.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 13. figs. 48 ♂ D, 49 ♂ V.

= *immaculata* Scott, 2006

Papilio (n.s.) 12: 48, pl. 4, 1st row left ♂ D&V (holotype).

Original Combination: *Cupido* (=Everes) *amyntula* *immaculata*

Type Locality: "Oak Creek, Yakima Co. Wash." [Washington]

Types: Holotype in BMNH.

= ‡"dodgei" (Gunder, 1927)

Can. Entomol. 59(12): 283, no. 7, pl. A, fig. 7 ♀ V ("holotype").

Original Combination: *Everes amyntula* tr. f. *dodgei*

Type Locality: "Santa Cruz, Calif." [Santa Cruz County, California]

Types: "Holotype" in AMNH.

‡"immaculata" (Scott, 1981)

Papilio (n.s.) 1: 6.

Original Combination: *Everes amyntula* form *immaculata*

Type Locality: "west coast, and occasionally in the Great Basin"

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

c. *Cupido amyntula nesiotus* (J. Emmel & T. Emmel, 1998)

Syst. W. N. Am. Butterflies (21): 303-304, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Everes amyntula nesiotus*

Type Locality: "California: Santa Barbara County; Santa Rosa Island; China Camp"

Types: Holotype in LACM.

d. *Cupido amyntula herri* (F. Grinnell, 1901)

Can. Entomol. 33(7): 192.

Original Combination: *Everes amyntula*, var. *herri*

Type Locality: "Cochise Co., Arizona"; suggested to be "Huachuca Mtns." by Bailowitz (1983), J. Lepid. Soc. 36(4): 309. [Cochise County, Arizona]

Types: Syntypes in LACM.

Bailowitz (1983), J. Lepid. Soc. 36(4): 308, detailed the status of this taxon.

= ‡"arizonensis" (Gunder, 1927)

Can. Entomol. 59(12): 284, no. 10, pl. A, fig. 10 ♂ V ("holotype").

Original Combination: *Everes comyntas* race *herri* tr. f. *arizonensis*

Type Locality: "Santa Rita Mts., Ariz." [Santa Cruz County]

Types: "Holotype" in AMNH.

= ‡"jemezensis" (Gunder, 1927)

Can. Entomol. 59(12): 284, no. 11, pl. A, fig. 11 ♀ V ("holotype").

Original Combination: *Everes amyntula herri* tr. f. *jemezensis*

Type Locality: "Jemez Spr., N. Mex." [Sandoval County, New Mexico]

Types: "Holotype" (#7179) in CMNH.

e. *Cupido amyntula valeriae* (Clench, 1944)

J. N. Y. Entomol. Soc. 52(1): 59-60.

Original Combination: *Everes comyntas valeriae*

Type Locality: “near Lead, South Dakota” [Lawrence County]

Types: Holotype (#25934) in MCZ.

- f. **Cupido amyntula albrighti** (Clench, 1944)
J. N. Y. Entomol. Soc. 52(1): 60-61.

Original Combination: *Everes comyntas albrighti*

Type Locality: “Kings Hill, Montana” [Meagher County]

Types: Holotype (#26562) in MCZ.

- g. **Cupido amyntula maritima** (Leblanc, 1985)
Faberies (suppl. 4): 45 and key.

Original Combination: [*Everes amyntula*] *maritima*

Type Locality: “Québec (Rimouski, Baspésie)”;
lectotype from “Jacquet River/ N. B.” [New Brunswick]

Types: Lectotype (#21 894) in CNC, designated by
Landry (1994), Faberies 19(2): 33-34, figs. 1 ♂ D, 1 ♂ V.

The key in Leblanc (1985), apparently qualifies as a description.

Genus **Celastrina** Tutt, 1906

Entomol. Rec. & J. Var. 18(5): 131. Type-species: *Papilio argiolus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 483, no. 153, by original designation.

- = ‡*Cyaniriodes* Matsumura, 1919
Thous. Ins. Japan, Addit. 3: 736. Type-species: *Lycaena ogasawarensis* Pryer, 1886, Rhop. nihon. (1): 10-11, no. 24,, pl. 2, fig. 13, by monotypy. Preoccupied by *Cyaniriodes* de Nicéville, 1890, Butterflies India Burmah Ceylon 3: 33.
- = *Maslowskia* M. M. Omelko & M. A. Omelko, 1984
In: Kononenko *et al.*, Fauna Ekol. Ins. Far East: 25. Type-species: *Lycaenopsis filipjevi* N. Riley, 1934, Entomol. 67(851): 85-86, pl. 1, figs. 1-6. Kurentsov (1974), Zoogeogr. Far East: 92, is frequently considered to have described this genus (*e.g.*, Korshunov and Ivonin (1990), *in*: Zolatarenko, Nov. Maloizvest. Vidy Faun. Sib. 22: 77-78); however, Kurentsov mentioned this name without a description; a *nomen nudum*.

519. **Celastrina lucia** (W. Kirby, 1837)

- a. **Celastrina lucia lucia** (W. Kirby, 1837)

Fauna Bor.-Am. [4]: 299, no. 1, pl. 3, figs. 8 ♂ D, 9 ♂ V.

Original Combination: *Polyommatus Lucia*

Type Locality: “taken with the preceding...Lat. 54°”;
Klots (1951), Field Guide Butterflies N. Am.: 170, stated
“Cumberland House, Saskatchewan, Lat. 54° N.”

Types: Holotype possibly in BMNH.

Treated as a species-level taxon by Opler and A. Warren (2002), Sci. Names List Butterflies N. A.: 28, based on Pavulaan (1995), Mass. Butterflies 6(1):2-4, and other recent works.

- = *marginata* (W. H. Edwards, 1883)

Papilio 3(5/6): 86-87; figured by W. H. Edwards (1884), Butterflies N. Am. 2(12): pl. *Lycaena* 2, figs. 3 ♂ D, 4, 4a ♀ D&V.

Original Combination: [*Lycaena Pseudargiolus* form] *Marginata*

Type Locality: “New York, New England, and Quebec, at least in the region about Montreal”;
lectotype from “Orono, Maine.” [Penobscot County]

Types: Lectotype in CMNH, designated by Clench (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(3): 423, fig. 30 ♂ D&V.

= *quesnellii* (Cockle, 1910)
Can. Entomol. 42(6): 204.

Original Combination: *Cyaniris*
ladon var. *quesnellii*

Type Locality: "Bala Lake, Quesnelle, northern B. C."; stated as "[Ahbau] Lake, [elevation 2950 feet], [latitude 53° 14', longitude 122° 07',] 35 miles northwest of Quesnelle [Forks], B. C., Canada]" by C. Guppy and Kondla (2003), J. Lepid. Soc. 57(2): 150. [British Columbia]

Types: Lectotype (#583) in CNC, designated by C. Guppy and Kondla (2003), J. Lepid. Soc. 57(2): 151. Another name, "maculatasuffusa," was listed by Cockle (1910) without a description or indication; a *nomen nudum*.

= ‡"fumida" (Scudder, 1889)
Butterflies E. U. S. & Can. 2(7): 933.

Original

Combination: *C[yaniris]. p[seudargiolus].*
[ab.] *fumida*

Type Locality: "New England" implied from the title of the book.

Types: "Holotype" in Thaxter collection.
The text clearly indicates that this taxon was described as an individual variant.

= ‡"pseudora" (Scudder, 1889)
Butterflies E. U. S. & Can. 2(7): 933-934.

Original

Combination: *C[yaniris]. p[seudargiolus].*
[ab.] *pseudora*

Type Locality: "Milford, N. H." [Hillsborough County]

Types: "Holotype" in MCZ according to W. Comstock and Huntington (1963), J. N. Y. Entomol. Soc. 71(1): 47.

= ‡"brunnea" Tutt, 1908
Nat. Hist. Brit. Butterflies 2(19): 413; cited W. H. Edwards (1884), Butterflies N. Am. 2(12): pl. Lycaena 2, fig. 25 ♂ V.

Original Combination: [*Celastrina argiolus*
pseudargiolus form *lucia*] ab. *brunnea*

Type Locality: "Brooklyn" in reference to a specimen obtained from Hulst, living in Brooklyn. [Brooklyn, Kings County, New York]

Types: "Type" may be in CMNH, unrecognizable, or lost.

= ‡"subtusjuncta" Tutt, 1908
Nat. Hist. Brit. Butterflies 2(19): 414; cited Scudder (1889), Butterflies E. U. S. & Can. 2(7): 934.

Original Combination: [*Celastrina argiolus*
pseudargiolus form *lucia*] ab. *subtusjuncta*

Type Locality: "Wollaston, Mass." [Quincy, Norfolk County, Massachusetts]

Types: "Type" may be in MCZ, unrecognizable, or lost.

- = ‡"inaequalis" Tutt, 1908
Nat. Hist. Brit. Butterflies 2(19): 416; cited W. H. Edwards (1884), Butterflies N. Am. 2(12): pl. Lycaena 2, fig. 24 ♂ & ♀ D.

Original Combination: [*Celastrina argiolus pseudargiolus* form *lucia*] ab. *inaequalis*

Type Locality: "Brooklyn"; in reference to a specimen obtained from Hulst, living in Brooklyn. [Brooklyn, Kings County, New York]

Types: "Type" may be in CMNH, unrecognizable, or lost.

‡"lucimargina" Scott, 1981

Papilio (n.s.) 1: 6.

Original Combination: *Celastrina argiolus ladon* form *lucimargina*

Proposed as a form with no nomenclatural standing; a *nomen nudum*. This name refers to a "form" that occurs widely in several *Celastrina* species; it is placed here as a convenience.

b. *Celastrina lucia lumarco* Scott, 2006

Papilio (n.s.) 12: 48-49, pl. 4, 1st row center ♂ D&V (holotype), right ♂ V, ♀ V.

Original Combination: *Celastrina lucia lumarco*

Type Locality: "Surface Creek, 7.6 mi. NNE Cedaredge, Delta Co. Colo." [Colorado]

Types: Holotype in BMNH.

520. *Celastrina echo* (W. H. Edwards, 1864)

C. Guppy and J. Shepard (2001), Butterflies B. C.: 226-227, Opler and A. Warren (2002), Sci. Names List Butterflies N. A.: 28, and A. Warren (2005), Butterflies Ore.: 161-165, treated this as a species-level taxon. The inclusion of *nigrescens*, *sidara*, and *cinerea* as subspecies of *C. echo* should be considered tentative, since some or all of these may be species-level taxa.

a. *Celastrina echo echo* (W. H. Edwards, 1864)

Proc. Entomol. Soc. Philad. 2(4): 501, 506-507, no. 8; figured by W. H. Edwards (1884), 2(12): pl. Lycaena 2, fig. 21 ♀ D.

Original Combination: *Lycaena Echo*

Type Locality: "California"; neotype from "San Francisco, Calif." [San Francisco County]

Types: Neotype in CMNH, designated by F. Brown and Clench (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(3): 430-431, fig. 36 ♂ D&V.

- = ‡"nunenmacheri" (Strand, 1915)

Arch. Naturgesch. (A)80(11): 159.

Original Combination: *Cyaniris ladon* cum ab. *nunenmacheri*

Type Locality: "Lake Co., Oregon"

Types: "Holotype" possibly in DEI.

b. *Celastrina echo nigrescens* (Fletcher, 1903)

Proc. & Trans. R. Soc. Can. (2)9(Sect. IV): 213-214, pl. fig. ♂ D, ♀ D.

Original Combination: *Lycaena pseudargiolus* var. *nigrescens*

Type Locality: "Kaslo, on Kootenay Lake, British Columbia"

Types: Holotype in USNM.

This taxon was redescribed by Fletcher (1904), Can. Entomol. 36(5): 127, fig. ♂ & ♀ D. The placement of this taxon as a subspecies of *C. echo* follows A. Warren (2005), Butterflies Ore.: 161-163, but requires additional study.

= *bakeri* (Clench, 1944)

J. N. Y. Entomol. Soc. 52(3): 274-275.

Original Combination: *Lycaenopsis pseudargiolus bakeri*

Type Locality: "Baker, Oregon" [Baker City, Baker County]

Types: Holotype in MCZ.

A. Warren (2005), Butterflies Ore.: 163, tentatively placed this taxon here.

c. *Celastrina echo sidara* (Clench, 1944)

J. N. Y. Entomol. Soc. 52(3): 273-274.

Original Combination: *Lycaenopsis pseudargiolus sidara*

Type Locality: "Manitou, Colorado" [Manitou Springs, El Paso County]

Types: Holotype in MCZ.

d. *Celastrina echo cinerea* (W. H. Edwards, 1883)

Papilio 3(1): 8; figured by W. H. Edwards (1884), 2(12): pl. *Lycaena* 2, figs. 16 ♂ D, 16a ♂ V, 17 ♀ D.

Original Combination: [*Lycaena Pseudargiolus*] var. *Cinerea*

Type Locality: "Arizona"; implied to be "vicinity of Fort Grant, Cochise Co. [*sic!*], and on Graham Mountain" from the introduction to the paper; defined as "Fort Grant at west foot of Graham Mountain" by Clench (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(3): 427-428. [Graham County]

Types: Lectotype in CMNH, designated by Clench (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(3): 428, fig. 35 ♂ D&V.

= *arizonensis* (W. H. Edwards, [1885])

Trans. Am. Entomol. Soc. 11(3/4): 306, under no. 432; cited W. H. Edwards (1884), Butterflies N. Am. 2(12): pl. *Lycaena* 2, figs. 18 ♂ D, 19 ♀ D (as *Lycaena pseudargiolus*).

Original Combination: [*Lycaena Pseudargiolus*] var. *Arizonensis*

Type Locality: "Arizona"; defined as "Fort Grant, Cochise County [*sic!*] at the west foot of Mount Graham" by Clench (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(3): 428. [Graham County]

Types: Lectotype in CMNH, designated by Clench (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(3): 429, fig. 34 ♂ D&V.

521. *Celastrina ladon* (Cramer, 1780)

Uitl. Kapellen 3(23): 141, pl. 270, figs. D ♂ D, E ♂ V; (24): 175 (index).

Original Combination: *Pap[ilio]. Pleb[ejus]. Rural[is]. Ladon*

Type Locality: "Kaap de Goede Hoop" "Cap de bonne Espérance" in error; neotype from "Patuxent River, Anne Arundel Co., Maryland."

Types: Neotype in MGCL, designated by Clench and L. Miller (1980), J. Lepid. Soc. 34(2): 117, figs. 9 ♂ D, 10 ♂ V.

The determination that *Iadon* is a North American taxon was made by Butler (1885), Entomol. Am. 1(3): 53, and (1900), Can. Entomol. 32(3): 91.

= *pseudargiolus* (Boisduval & Le Conte, [1835])
Hist. Lépid. Amér. sept. (13): 118-119; (12): pl. 36, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V, 4 larva, 5 pupa.

Original Combination: *A[rgus]*. *Pseudargiolus*

Type Locality: "grande partie des États-Unis"

Types: Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost. Oberthür (1920), Étud. Lépid. Comp. 17: pl. 505, figs. 4211 ♂ D&V, 4212 ♀ D&V, figured "types" from the Boisduval collection now in USNM, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discusses the dubious nature of such "types."

= *violacea* (W. H. Edwards, 1866)
Proc. Entomol. Soc. Philad. 6(2): 200, 201-202, no. 3; figured by W. H. Edwards (1869), Butterflies N. Am. [1](3): pl. Lycaena 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D [not 4], and (1884), Butterflies N. Am. 2(12): pl. Lycaena 2, figs. 5, 5a ♂ D&V, 6 ♀ D.

Original Combination: *Lycaena violacea*

Type Locality: "Kanawha River" [nr. Coalburgh, Kanawha County, West Virginia]

Types: Lectotype in CMNH, designated by Clench (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(3): 424, fig. 31 ♂ D&V.

D. Wright and Pavulaan (1999), Tax. Rep. Int. Lepid. Surv. 1(9): 5, determined this synonymy.

522. **Celastrina idella** D. Wright & Pavulaan, 1999
Tax. Rep. Int. Lepid. Surv. 1(9): 4-5, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5 ♂ D&V, 6 ♂ D&V, 7 ♂ D&V, 8 ♀ D&V, 22 map, 28 ♂ genitalia, 29 ♂ genitalia.

Original Combination: *Celastrina idella*

Type Locality: "2.2 km. s. of Chatsworth, Burlington Co., NJ...cedar bog in Risley Branch of Wading River" [New Jersey]

Types: Holotype in ANSP.

523. **Celastrina serotina** Pavulaan & D. Wright, 2005
Tax. Rep. Int. Lepid. Surv. 6(6): 4, 6, figs. 7 ♂ D&V (holotype), 8 ♀ D&V.
Original Combination: *Celastrina serotina*
Type Locality: "Great Swamp Management Area, near West Kingston, South Kingstown Township, Washington County, Rhode Island, U.S.A."

Types: Holotype in ANSP.

524. **Celastrina neglecta** (W. H. Edwards, 1862)
Proc. Acad. Nat. Sci. Philad. 14(1/2): 54, 56, no. 4; figured by W. H. Edwards (1870), Butterflies N. Am. [1](5): pl. Lycaena 2, figs. 4 ♂ D, 5 ♂ V, 6 ♀ D, and (1884), Butterflies N. Am. 2(12): pl. Lycaena 2, figs. 10, 10a ♂ D&V, 11 ♂ D, 12 ♀ D.

Original Combination: *Lycaena neglecta*

Type Locality: "Massachusetts, New York, Wisconsin, Lake Winnipeg"; lectotype from "Hunter, Greene Co., New York."

Types: Lectotype in CMNH, designated by F. Brown and Clench (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(3): 427, fig. 33 ♂ D&V.

D. Wright (1995), Am. Butterflies 3(1): 20-28, considered this a species-level taxon, an arrangement which has been followed by most subsequent authors (e.g., Opler and A. Warren (2002), Sci. Names List Butterflies N. A.: 28).

= *argentata* (Fletcher, 1903)

Proc. & Trans. R. Soc. Can. (2)9(Sect. IV): 213, pl., fig.

♂ D&V, ♀ D.

Original Combination: *Lycaena*

pseudargiolus var. *argentata*

Type Locality: "Cartwright and other places in southern Manitoba, as well as in south-eastern Assiniboia"

Types: Holotype in USNM.

This taxon was redescribed by Fletcher (1904), Can.

Entomol. 36(5): 127, fig. ♂ D&V, ♀ D. Layberry *et al.*

(1998), Butterflies Can.: 153, considered this a subspecies of *C. neglecta*.

= ‡"pauper" Tutt, 1908

Nat. Hist. Brit. Butterflies 2(19): 407; cited W. H.

Edwards (1884), Butterflies N. Am. 2(12): pl.

Lycaena 2, figs. 10 ♂ D, 13 ♂ D, 14 ♀ D, 15 ♂ D, 15a ♂ V.

Original Combination: [*Celastrina argiolus*

pseudargiolus] [summer form] *pauper*

Type Locality: Not expressly stated; "about lat. 45°...Colorado" implied from reference to W. H. Edwards (1884).

Types: "Types" may be in CMNH, unrecognizable, or lost.

‡"deutargiolus" Scudder, 1869

Occ. Pap. Boston Soc. Nat. Hist. 1: 165 and footnote.

Original Combination: [*Polyommatus*] *deutargiolus*

This name was listed without a description or indication; a *nomen nudum*.

525. *Celastrina humulus* Scott & D. Wright, 1998

Papilio (n.s.) 9: 1-2, figs. 1 ♂ D (holotype), 2 ♂ D, 3 ♂ V, 4 ♂ V, 5 ♂ V, 6 ♂ V, 7 ♀ D, 8 ♀ D, 9 ♀ V, 10 ♀ V.

Original Combination: *Celastrina humulus*

Type Locality: "Red Rocks, Jefferson County, Colorado"

Types: Holotype in BMNH.

526. *Celastrina neglectamajor* Opler & Krizek, 1984

Butterflies East Great Plains: 117-118, pl. 18, fig. 106.

Original Combination: *Celastrina neglectamajor*

Opler and Krizek adopted *Celastrina argiolus*

pseudargiolus summer form *neglecta-major* Tutt, 1908, to represent a species-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= ‡"neglectamajor" Tutt, 1908

Nat. Hist. Brit. Butterflies 2(19): 407; cited W. H.

Edwards (1884), Butterflies N. Am. 2(12): 5 [319], pl.

Lycaena 2, figs. 8 ♂ D (lectotype), 9 ♀ D, 9a ♀ V.

Original Combination: [*Celastrina argiolus*

pseudargiolus] [summer form] *neglecta-major*

Type Locality: Not stated; lectotype from "Coalburgh, West Virginia." [Kanawha County]

Types: Lectotype in CMNH, designated by Pavulaan and D. Wright (2000), Tax. Rep. Int. Lepid. Surv.

2(5): 11, figs. 20 ♂ D, 21 ♂ V.

As a quadrinomial, this name is unavailable (Code Article 45.5).

- = ‡"obsoletalunulata" Tutt, 1908
Nat. Hist. Brit. Butterflies 2: 426-427; cited W. H. Edwards (1884), Butterflies N. Am. 2(12): 10 [324], pl. *Lycaena* 2, fig. 22 ♀ V.
Original Combination: [*Celastrina argiolus pseudargiolus*] ab. *obsoleta-lunulata*
Type Locality: "eastern United States"
Types: "Lectotype" in CMNH, designated by Pavulaan and D. Wright (2000), Tax. Rep. Int. Lepid. Surv. 2(5): 11, fig. 24 ♀ V.

527. ***Celastrina nigra*** (W. Forbes, 1960)
Mem. Cornell Univ. Agric. exp. Sta. 371 (part 4): 127.
Original Combination: [*Plebeius argiolus*] race *nigra*
Forbes adopted *Lycaena Pseudargiolus* winter form *Violacea* dimorphic male *nigra* W. H. Edwards, [1885], to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).
- = ‡*ebenina* Clench, 1972
Ann. Carnegie Mus. 44(1): 33-37, fig. 1 ♂ D&V (holotype), 10 ♂ genitalia.
Original Combination: *Celastrina ebenina*
Type Locality: "Coalburg, Kanawha Co., West Virginia"
Types: Holotype in CMNH, the same specimen as the lectotype of *nigra*.
A junior objective synonym of *nigra*.
 - = ‡"nigra" (Strecker, 1878)
Butterflies Moths N. Am., Comp. Syn. Cat.: 95, no. 136a; cited W. H. Edwards (1869), Butterflies N. Am. [1](3): pl. *Lycaena* 1, fig. 4 ♂ D.
Original Combination: [*Lycaena Lucia*] ab. a.
♀ *Nig[ra]*.
Type Locality: "Virginia"
Types: "Holotype" is the same specimen figured by W. H. Edwards (1869), *ibid.*, in CMNH.
 - = ‡"intermedia" (Strecker, 1878)
Butterflies Moths N. Am., Comp. Syn. Cat.: 95, no. 136b.
Original Combination: [*Lycaena Lucia*] ab. b.
♀ *Intermedia*
Type Locality: "Virginia"
Types: "Type(s)" apparently lost, but possibly in FMNH.
 - = ‡"nigra" (W. H. Edwards, [1884])
Butterflies N. Am. 2(12): [315], pl. *Lycaena* 2, fig. 7 ♂ D; cited W. H. Edwards (1869), Butterflies N. Am. [1](3): pl. *Lycaena* 1, fig. 4 ♂ D (as ♀).
Original Combination: [*Lycaena Pseudargiolus* Winter form *Violacea*] dimorphic male *Nigra*
Type Locality: Not stated; lectotype from "Coalb[urg]." [Kanawha County, West Virginia]
Types: "Lectotype" in CMNH, designated by Clench (1970), *in*: F. Brown, Trans. Am. Entomol. Soc. 96(3): 425-426, fig. 32 ♂ D&V.

Genus **Udara** Toxopeus, 1928

Tijdschr. Entomol. 71(3): 181, 219. Type-species: *Polyommatus dilectus* Moore, 1879, Proc. Zool. Soc. Lond. 1879(1): 139, by original designation.

= *Akasinula* Toxopeus, 1928

Tijdschr. Entomol. 71(3): 181, 194. Type-species: *Polyommatus akasa* Horsfield, [1828], Descr. Cat. Lepid. Ins. Mus. E. India Co. (1): 67, pl. 1, figs. 1, 1a, by original designation.

Subgenus **Vaga** Zimmerman, 1958

Ins. Hawaii 7: 491. Type-species: *Holochila blackburni* Tuely, 1878, Entomol. Mon. Mag. 15(169): 9, by original designation.

528. Udara blackburni (Tuely, 1878)

Entomol. Mon. Mag. 15(169): 9.

Original Combination: *Holochila blackburni*

Type Locality: "mountain pass in the Island of Oahu"

[Honolulu County, Hawaii]

Types: Holotype in BMNH.

Genus **Philotes** Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 116, no. 18. Type-species: *Lycaena regia* Boisduval, 1869, Annls. Soc. Entomol. Belg. 12: 46, no. 20 (= *Lycaena sonorensis* C. Felder & R. Felder, 1865, Reise Novara (2): 281, pl. 35, figs. 3, 4; synonym), by original designation.

529. Philotes sonorensis (C. Felder & R. Felder, 1865)

a. Philotes sonorensis sonorensis (C. Felder & R. Felder, 1865)

Reise Novara (2): 281, no. 356, pl. 35, figs. 3 ♂ D, 4 ♂ V.

Original Combination: *Lycaena Sonorensis*

Type Locality: "Sonora"; defined as "San Diego, Calif." by Shields (1973), Bull. Allyn Mus. (15): 2; suggested to be "near the Verdugo Hills" by Mattoni (1991), J. Res. Lepid. 28(4): 302; defined as "La Tuna Canyon, 1200 ft. Elev., Verdugo Mts., Los Angeles County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (5): 90.

Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (5): 90, figs. 22 ♂ D, 23 ♂ V.

= *regia* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 46, no. 22; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 238, figs. 1959 ♂ D&V, 1960 ♀ D&V.

Original Combination: *Lycaena regia*

Type Locality: "environs de Los Angeles"; defined as "La Tuna Canyon, 1360' elevation, Verdugo Mountains, Los Angeles County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 26.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 26, figs. 189 ♂ D, 190 ♂ V.

= ‡"sonoralba" F. Watson & W. Comstock, 1920 Bull. Am. Mus. Nat. Hist. 42(10): 456.

Original Combination: *Philotes sonorensis* ab. *sonoralba*

Type Locality: "San Diego, California" [San Diego County]

Types: "Holotype" in AMNH.

= ‡"comstocki" Gunder, 1925
Entomol. News 36(1): 6-7, no. 11, pl. 1, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V.

Original Combination: *Philotes sonorensis* form *comstocki*

Type Locality: "San Gabriel River, Duarte, Los Angeles County, California"

Types: "Holotype" in AMNH; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 56, fig. 10 ♂ D (holotype), 15 ♂ V.

b. *Philotes sonorensis extinctis* Mattoni, 1991

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J. Res. Lepid. 28(4): 300, 302, figs. 2 rows 1, 2 ♂♂ D, 3 ♂♂ V, 4 ♀♀ D, 3 rows 1 ♀♀ D, 3 ♀♀ V.

Original Combination: *Philotes sonorensis extinctis*

Type Locality: "upper San Gabriel wash" [Los Angeles County, California]

Types: Holotype in USNM.

Genus *Philotiella* Mattoni, [1978]

J. Res. Lepid. 16(4): 227, 230, pl. 5, pl. 10, pl. 12. Type-species: *Lycaena speciosa* Hy. Edwards, 1877, Proc. Calif. Acad. Sci. [1]7(13): 173, by original designation.

530. *Philotiella speciosa* (Hy. Edwards, 1877)

a. *Philotiella speciosa speciosa* (Hy. Edwards, 1877)
Proc. Calif. Acad. Sci. [1]7(13): 173.

Original Combination: *Lycaena speciosa*

Type Locality: "Havilah, Kern County"

Types: Holotype in AMNH; possibly figured by W. Holland (1898), Butterfly Book: pl. 32, fig. 1 ♂ D.

b. *Philotiella speciosa septentrionalis* Austin, 1998
Syst. W. N. Am. Butterflies (45): 557, figs. 101 ♂ D, 102 ♂ V (holotype); 103 ♀ D, 104 ♀ V.

Original Combination: *Philotiella speciosa septentrionalis*

Type Locality: "Nevada: Lyon County; Fort Churchill Road, 12.3 road miles south (= east) of U.S. highway 50, 1341 m, T17N R24E S32 on USGS Churchill Butte, Nev. 15' quadrangle"

Types: Holotype in MGCL.

c. *Philotiella speciosa bohartorum* (Tilden, [1969])
J. Res. Lepid. 6(4): 281-283.

Original Combination: *Philotes speciosa bohartorum*

Type Locality: "Briceburg, Mariposa Co., Calif...just behind the Briceburg Station where an old bridge crosses the Merced River"

Types: Holotype in LACM; possibly figured by Mattoni [1978], J. Res. Lepid. 16(4): pl. 4, top row, right ♂ D, pl. 5, top row right ♂ V.

d. *Philotiella speciosa purissima* Priestaf & J. Emmel, 1998

Syst. W. N. Am. Butterflies (19): 283-284, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Philotiella speciosa purissima*

Type Locality: "California: Santa Barbara County; Harris Grade at Burton Mesa Boulevard, north of Lompoc"

Types: Holotype in LACM.

531. **Philotiella leona** Hammond & McCorkle, 2000
Holarct. Lepid. 6(2): 77, figs. 1 ♂ genitalia lateral, 3 ♂ genitalia posterior, 5 ♀ genitalia dorsal (partial), 7 ♂ genitalia right valve inside, 8 ♂ genitalia left valve ventral, 9 ♂ genitalia right valve apical, 18 top row left ♂ D (holotype), top row right ♀ V, bottom row left ♀ D.

Original Combination: *Philotiella leona*

Type Locality: "milepost 226 along U.S. Highway 97, Klamath Co., Oregon"

Types: Holotype in AMNH.

Genus **Euphilotes** Mattoni, [1978]

J. Res. Lepid. 16(4): 224-225. Type-species: *Lycaena enoptes* Boisduval, 1852, Annls. Soc. Entomol. Fr. (2)10(2): 298, no. 36, by original designation.

battoides complex Pratt & J. Emmel, 1998

Syst. W. N. Am. Butterflies (16): 216.

532. **Euphilotes battoides** (Behr, 1867)

The arrangement of taxa under this species is tentative. It is assumed that some taxa will eventually be removed to other species in the battoides complex.

- a. **Euphilotes battoides battoides** (Behr, 1867)

Proc. Calif. Acad. Sci. [1]3(18): 282, no. 15.

Original Combination: *Lycaena*. *Battoides*

Type Locality: "California" implied from the title of the paper, "at an elevation of eleven thousand feet, on the head-waters of the San Joaquin River" from the description; neotype from "nr. Mono Pass, 12,000 ft. NW Inyo County, California."

Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 102, figs. 52 ♀ D, 53 ♀ V.

- b. **Euphilotes battoides argocyanea** Pratt & J. Emmel, 1998

Syst. W. N. Am. Butterflies (16): 217-218, figs. 35 ♂ D, 36 ♂ V (holotype); 37 ♀ D, 38 ♀ V.

Original Combination: *Euphilotes battoides argocyanea*

Type Locality: "California: Inyo Co., E end of Nelson Range: slope 0.3 km W of Junction of Saline Valley Road and Hunter Mt. Road, 1,800-1,900 m"

Types: Holotype in LACM.

- c. **Euphilotes battoides mazourka** Pratt & J. Emmel, 1998
Syst. W. N. Am. Butterflies (16): 218-219, figs. 39 ♂ D, 40 ♂ V (holotype); 41 ♀ D, 42 ♀ V.

Original Combination: *Euphilotes battoides mazourka*

Type Locality: "California: Inyo County: Inyo Mountains; northwest edge of Badger Flat, 0.5 air mile northeast of 9441' summit of Mazourka Peak, 8,800-8,900' elevation; northeast one-fourth of S23, T.11S., R.35E"

Types: Holotype in LACM.

- d. **Euphilotes battoides panamintensis** Pratt & J. Emmel, 1998

- Syst. W. N. Am. Butterflies (16): 219-220, figs. 43 ♂ D, 44 ♂ D (holotype); 45 ♀ D, 46 ♀ V.
Original Combination: *Euphilotes battoides panamintensis*
Type Locality: "California: Inyo Co.: Panamint Range, Wildrose Cyn., 2,100 m"
Types: Holotype in LACM.
- e. **Euphilotes battoides allyni** (Shields, 1975)
 Bull. Allyn Mus. (28): 10-11, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Shijimiaeoides battoides allyni*
Type Locality: "California: Los Angeles Co., El Segundo"
Types: Holotype in MGCL.
 It is quite possible that this is a subspecies of *E. bernardino*.
- f. **Euphilotes battoides vernalis** Pratt & J. Emmel, 1998
 Syst. W. N. Am. Butterflies (16): 221, figs. 47 ♂ D, 48 ♂ V (holotype); 49 ♀ D, 50 ♀ V.
Original Combination: *Euphilotes battoides vernalis*
Type Locality: "California: San Bernardino Co.; Coxey Meadow; 1,600 m"
Types: Holotype in LACM.
- g. **Euphilotes battoides fusimaculata** Austin, 1998
 Syst. W. N. Am. Butterflies (45): 551, figs. 65 ♂ D, 66 ♂ V (holotype); 67 ♀ D, 68 ♀ V.
Original Combination: *Euphilotes battoides fusimaculata*
Type Locality: "Nevada: Nye County; Toiyabe Mountains, Peavine Creek Campground, 2012 m, T8N R42E (unsectioned) on USGS Dry Canyon, Nev. 7.5' quadrangle"
Types: Holotype in MGCL.
- h. **Euphilotes battoides anasazi** Scott, 1998
 Papilio (n.s.) 11: 5, fig. 11 ♂ D (holotype), 12 ♀ D.
Original Combination: *Euphilotes battoides anasazi*
Type Locality: "Aztec, San Juan Co., New Mexico"
Types: Holotype in BMNH.
533. **Euphilotes glauson** (W. H. Edwards, 1871)
 Mattoni (1989), J. Res. Lepid. 27(3/4): 175, suggested that this may be a species-level taxon. A. Warren (2005), Butterflies Ore.: 173-176, described patterns of geographic variation in this species in Oregon.
- a. **Euphilotes glauson glauson** (W. H. Edwards, 1871)
 Trans. Am. Entomol. Soc. 3(3/4): 205, 210, no. 9.
Original Combination: *Lycaena Glauson*
Type Locality: "Nevada"; defined as "Storey County, Nevada" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 406-407; further defined as "near Virginia City, Storey Co., Nevada" by Shields (1975), Bull. Allyn Mus. (28): 21.
Types: Lectotype in AMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 409, fig. 22 ♂ D&V.
- b. **Euphilotes glauson oregonensis** (W. Barnes & McDunnough, 1917)
 Contrib. Nat. Hist. Lepid. N. Am. 3(4): 214, pl. 16, figs. 1 ♂ D (holotype), 2 ♂ V, 3 ♀ D.

Original Combination: [*Philotes glaucon*]

[race] *oregonensis*

Type Locality: "Crater Lake, Oregon" [Klamath County]

Types: Holotype in USNM; a paratype figured by W. Holland (1931), *Butterfly Book* (rev. ed.): pl. 66, fig. 36 ♂ V.

c. *Euphilotes glaucon australoglaucon* Pratt & J. Emmel, 1998

Syst. W. N. Am. Butterflies (16): 216-217, figs. 31 ♂ D, 32 ♂ V (holotype); 33 ♀ D, 34 ♀ V.

Original Combination: *Euphilotes battoides australoglaucon*

Type Locality: "California: Inyo County; east slope Sierra Nevada; Independence Creek, 6,300' elevation"

Types: Holotype in LACM.

K. Davenport (2004), *Tax. Rept. Int. Lepid. Surv.* 5(1): 29, allied this taxon with *E. glaucon*.

d. *Euphilotes glaucon comstocki* (Shields, 1975)

Bull. Allyn Mus. (28): 12, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.

Original Combination: *Shijimiaeoides battoides comstocki*

Type Locality: "California: Kern Co., Tehachapi"

Types: Holotype in LACM.

K. Davenport (2004), *Tax. Rept. Int. Lepid. Surv.* 4(7): 10, allied this taxon with *E. intermedia*.

e. *Euphilotes glaucon intermedia* (W. Barnes & McDunnough, 1917)

Contrib. Nat. Hist. Lepid. N. Am. 3(4): 214, pl. 16, figs. 4 ♂ D, 5 ♂ V, 6 ♀ D.

Original Combination: [*Philotes glaucon*]
[race] *intermedia*

Type Locality: "Shasta Co., Cali. (presumably the vicinity of Castella in the Upper Sacramento Valley)" [California]

Types: Holotype in USNM; a paratype figured by W. Holland (1931), *Butterfly Book* (rev. ed.): pl. 66, fig. 38 ♂ D.

Mattoni (1989), *J. Res. Lepid.* 27(3/4): 175, noted that this taxon is sympatric with *E. b. battoides* at some sites in California, and A. Warren (2005), *Butterflies Ore.*: 174-175, allied *intermedia* with *E. glaucon*.

= ‡"malcolmi" (Gunder, 1927)

Can. Entomol. 59(12): 282-283, no. 5, pl. A, fig. 5 ♂ V ("holotype").

Original Combination: *Philotes glaucon* race *intermedia* tr. f. *malcolmi*

Type Locality: "Amer. River, Placer Co., Calif." [California]

Types: "Holotype" in AMNH.

534. *Euphilotes centralis* (W. Barnes & McDunnough, 1917)
Pratt and J. Emmel (1998), *Syst. W. N. Am. Butterflies* (16): 222-223, treated this as a species-level taxon.

a. *Euphilotes centralis centralis* (W. Barnes & McDunnough, 1917)

Contrib. Nat. Hist. Lepid. N. Am. 3(4): 215, pl. 16, figs. 7 ♂ D (holotype), 8 ♂ V.

Original Combination: [*Philotes glaucon*]

[race] *centralis*

Type Locality: "Salida, Colo." [Chaffee County, Colorado]

Types: Holotype in USNM.

- b. *Euphilotes centralis hadrochilus*** Pratt & J. Emmel, 1998

Syst. W. N. Am. Butterflies (16): 222, figs. 51 ♂ D, 52 ♂ V, 53 ♀ D, 54 ♀ V.

Original Combination: *Euphilotes centralis hadrochilus*

Type Locality: "California, Inyo Co., 6 km S of Westgard Pass, 2,000 m"

Types: Holotype in LACM.

- 535. *Euphilotes bernardino*** (W. Barnes & McDunnough, 1916) Shields and Reveal (1988), Biol. J. Linn. Soc. 33(1): 87-88, fig. 1, tbl. 1, Mattoni (1989), J. Res. Lepid. 27(3/4): 176, and other recent authors treated this as a species-level taxon.

- a. *Euphilotes bernardino bernardino*** (W. Barnes & McDunnough, 1916)

Contr. Nat. Hist. Lepid. N. Am. 3(2): 116, pl. 11, figs. 9 ♂ D, 11 ♂ V, 13 ♀ D; ♂ genitalia figured by W. Barnes and McDunnough (1917), Contr. Nat. Hist. Lepid. N. Am. 3(4): pl. 17, fig. 4.

Original Combination: [*Philotes battoides*]

race *bernardino*

Type Locality: "Camp Baldy, S. Bernardino Mts."; corrected to "San Gabriel Mts." by Shields (1977), J. Res. Lepid. 16(1): 48. [San Bernardino County, California]

Types: Syntypes in USNM; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 66, fig. 37 ♂ V.

= ‡"baldyensis" Gunder, 1925

Entomol. News 36(1): 3, no. 2, pl. 1, fig. M ♀ V ("holotype").

Original Combination: *Philotes*

battoides var. *bernardino* ab. ♀ *baldyensis*

Type Locality: "Camp Baldy, San Bernardino County, California"

Types: "Holotype" in AMNH; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 55, fig. 32 ♀ V.

- b. *Euphilotes bernardino inyomontana*** Pratt & J. Emmel, 1998

Syst. W. N. Am. Butterflies (16): 223-224, figs. 55 ♂ D, 56 ♂ V (holotype); 57 ♀ D, 58 ♀ V.

Original Combination: *Euphilotes bernardino inyomontana*

Type Locality: "California: Inyo Co.; Panamint Range, S end; ridge just above Wood Canyon, 1,500-1,700 m elev., 1.3 km NNW of Manly Peak"

Types: Holotype in LACM.

- c. *Euphilotes bernardino minuta*** Austin, 1998

Syst. W. N. Am. Butterflies (45): 549-550, figs. 53 ♂ D, 54 ♂ V (holotype); 55 ♀ D, 56 ♀ V.

Original Combination: *Euphilotes bernardino minuta*

Type Locality: "Nevada: White Pine County; Spring Valley, Baking Powder Flat, 1 mile south of Blind Spring,

- 1762 m, T11N R67E S26 on USGS Wheeler Peak, Nev. quadrangle, 15' series"
Types: Holotype in MGCL.
- d. **Euphilotes bernardino martini** (Mattoni, 1954)
 Bull. South. Calif. Acad. Sci. 53(3): 157, 159, no. 1, pl. 43, fig. 3 ♂ D (holotype), 4 ♀ V.
Original Combination: *Philotes battoides martini*
Type Locality: "Oatman, Mohave Co., Arizona"
Types: Holotype in USNM.
536. **Euphilotes ellisii** (Shields, 1975)
 Pratt and J. Emmel (1998), Syst. W. N. Am. Butterflies (16): 225-227, treated this as a species-level taxon.
- a. **Euphilotes ellisii ellisii** (Shields, 1975)
 Bull. Allyn Mus. (28): 12-13, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.
Original Combination: *Shijimiaeoides battoides ellisii*
Type Locality: "Colorado [sic!]: Mesa Co., W. Creek, Unaweep Canyon, 5400', 6 mi E. of Gateway"
Types: Holotype in MGCL.
- b. **Euphilotes ellisii basinensis** Austin, 1998
 Syst. W. N. Am. Butterflies (45): 551, figs. 61 ♂ D, 62 ♂ V (holotype); 63 ♀ D, 64 ♀ V.
Original Combination: *Euphilotes ellisii basinensis*
Type Locality: "Nevada: Lyon County; Pine Nut Mountains, Eldorado Canyon, 3-4 miles southeast of Dayton, 1524 m, T15N R22E S31 on USGS Dayton, Nev. 15' quadrangle"
Types: Holotype in MGCL.
- c. **Euphilotes ellisii euromojavensis** Pratt & J. Emmel, 1998
 Syst. W. N. Am. Butterflies (16): 225-226, figs. 59 ♂ D, 60 ♂ V (holotype); 61 ♀ D, 62 ♀ V.
Original Combination: *Euphilotes ellisii euromojavensis*
Type Locality: "California: San Bernardino Co.; Mid Hills; north facing slope of Macedonia Canyon, 1,400-1,500 m, 1.0 km SE of peak of Columbia Mt.; SE 1/4 of S 34, T 12N, R 14E"
Types: Holotype in LACM.
- d. **Euphilotes ellisii avawatz** Pratt & J. Emmel, 1998
 Syst. W. N. Am. Butterflies (16): 226-227, figs. 63 ♂ D, 64 ♂ V (holotype); 65 ♀ D, 66 ♀ V.
Original Combination: *Euphilotes ellisii avawatz*
Type Locality: "California, San Bernardino Co.; northeastern Mojave Desert; Avawatz Mountains, 5 Km west of Old Mormon Spring, 1,100 m"
Types: Holotype in LACM.
537. **Euphilotes baueri** (Shields, 1975)
 Pratt and J. Emmel (1998), Syst. W. N. Am. Butterflies (16): 225, treated this as a species-level taxon.
- a. **Euphilotes baueri baueri** (Shields, 1975)
 Bull. Allyn Mus. (28): 15-16, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.
Original Combination: *Shijimiaeoides battoides baueri*
Type Locality: "California: Inyo Co., W side Gilbert Pass, 6200"
Types: Holotype in MGCL.
- b. **Euphilotes baueri orientis** Austin, 1998

enoptes complex Pratt & J. Emmel, 1998
Syst. W. N. Am. Butterflies (16): 209.

- Syst. W. N. Am. Butterflies (45): 550, figs. 57 ♂ D, 58 ♂ V (holotype); 59 ♀ D, 60 ♀ V.
Original Combination: *Euphilotes baueri orientis*
Type Locality: "Nevada: Lincoln County; Bristol Mountains, U.S. highway 93, 12.5 road miles north of Pioche, 1826 m, T3N R66E (unsectioned) on USGS Bristol Range SE, Nev., 7.5' quadrangle"
Types: Holotype in MGCL.
538. **Euphilotes mojave** (F. Watson & W. Comstock, 1920)
Mattoni (1989), J. Res. Lepid. 27(3/4): 174-175, considered this a species-level taxon, a status corroborated by Pratt and J. Emmel (1998), Syst. W. N. Am. Butterflies (16): 213.
a. Euphilotes mojave mojave (F. Watson & W. Comstock, 1920)
Bull. Am. Mus. Nat. Hist. 42(10): 455-456.
Original Combination: *Philotes enoptes mojave*
Type Locality: "Mojave Desert, California"; suggested to be "probably around Randsburg, Kern Co., California" by Pratt and J. Emmel (1998), Syst. W. N. Am. Butterflies (16): 213.
Types: Holotype in AMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 66, fig. 44 ♂ V.
b. Euphilotes mojave virginensis Austin, 1998
Syst. W. N. Am. Butterflies (45): 556, figs. 93 ♂ D, 94 ♂ V (holotype); 95 ♀ D, 96 ♀ V.
Original Combination: *Euphilotes mojave virginensis*
Type Locality: "Nevada: Clark County; Virgin Mountains, Cabin Canyon, 1341 m, T15S R71E S4 on USGS Virgin Peak, Nev.-Ariz. 15' quadrangle"
Types: Holotype in MGCL.
539. **Euphilotes stanfordorum** Opler & A. Warren, 2009
Butterflies Colo. 4: 125-126, 132, top left ♂ D, top right ♂ V (holotype), 2nd left ♀ D, 2nd right ♀ V, 3rd left ♂ D, 3rd right ♂ V, 4th left ♀ D, 4th right ♀ V.
Original Combination: *Euphilotes stanfordorum*
Type Locality: "Colorado: Delta County, southwest of Hotchkiss"
Types: Holotype in CSUC
540. **Euphilotes enoptes** (Boisduval, 1852)
a. Euphilotes enoptes enoptes (Boisduval, 1852)
Annls. Soc. Entomol. Fr. (2)10(2): 298-299, no. 36; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 237, figs. 1948 ♂ D&V, 1949 ♀ D&V.
Original Combination: *Lycaena enoptes*
Type Locality: "les lieux arides"; defined as "Hwy. 70 between Gansner Bar and Queen Lily Campground near Belden, North Fork Feather River, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 15.
Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 15, figs. 78 ♂ D, 79 ♂ V. Male genitalia of this specimen figured by R. Williams (1918), Entomol. News 29(3): pl. 4.
b. Euphilotes enoptes aridorum Austin, 1998
Syst. W. N. Am. Butterflies (45): 554-555, figs. 85 ♂ D, 86 ♂ V (holotype); 87 ♀ D, 88 ♀ V.

- Original Combination:** *Euphilotes enoptes aridorum*
Type Locality: "Nevada: Washoe County; Peavine Peak Road at U.S. 395, 1646 m, T20N R19E S7 on USGS Verdi, Nev. 7.5' quadrangle"
Types: Holotype in MGCL.
- c. ***Euphilotes enoptes bayensis*** (Langston, 1964)
 J. Lepid. Soc. 17(4): 208-209, fig. 2 ♂ genitalia, figs. 5C ♂ D&V (holotype), ♀ D&V, 5D ♂&♀, D&V.
Original Combination: *Philotes enoptes bayensis*
Type Locality: "China Camp, near Point San Pedro, Marin County, California"
Types: Holotype in CAS.
- d. ***Euphilotes enoptes tildeni*** (Langston, 1964)
 J. Lepid. Soc. 17(4): 212-215, fig. 3 ♂ genitalia, figs. 5E ♂ D&V (holotype), ♀ D&V.
Original Combination: *Philotes enoptes tildeni*
Type Locality: "Del Puerto Canyon, 22 mi. W. of Patterson, Stanislaus County, California"
Types: Holotype in CAS.
- e. ***Euphilotes enoptes arenacola*** Pratt & J. Emmel, 1998
 Syst. W. N. Am. Butterflies (16): 210-211, figs. 15 ♂ D, 16 ♂ V (holotype); 17 ♀ D, 18 ♀ V.
Original Combination: *Euphilotes enoptes arenacola*
Type Locality: "California: Monterey County: Marina (sand dunes), 5 miles north of Monterey"
Types: Holotype in LACM.
- f. ***Euphilotes enoptes smithi*** (Mattoni, 1954)
 Bull. South. Calif. Acad. Sci. 53(3): 160-161, no. 2, pl. 43, figs. 8 ♂ D (holotype), 9 ♀ V.
Original Combination: *Philotes enoptes smithi*
Type Locality: "Burns Creek, State Highway 1, Monterey Co., Calif." [California]
Types: Holotype in USNM.
- g. ***Euphilotes enoptes dammersi*** (J. A. Comstock & Henne, 1933)
 Bull. South. Calif. Acad. Sci. 32(1): 24-25.
Original Combination: *Philotes enoptes dammersi*
Type Locality: "Snow Creek, Riverside Co., Calif." [California]
Types: Holotype in USNM.
- h. ***Euphilotes enoptes cryptorufes*** Pratt & J. Emmel, 1998
 Syst. W. N. Am. Butterflies (16): 211-212, figs. 19 ♂ D, 20 ♂ V (holotype); 21 ♀ D, 22 ♀ V.
Original Combination: *Euphilotes enoptes cryptorufes*
Type Locality: "California; Riverside Co.; S facing slopes of Pyramid Mt. in the San Jacinto Mts., 1,500-2,100 m"
Types: Holotype in LACM.
- i. ***Euphilotes enoptes opacapulla*** Austin, 1998
 Syst. W. N. Am. Butterflies (45): 554, figs. 81 ♂ D, 82 ♂ V (holotype); 83 ♀ D, 84 ♀ V.
Original Combination: *Euphilotes enoptes opacapulla*
Type Locality: "Nevada: Clark County; Newberry Mountains, Grapevine Canyon, 320 m, T31S R66E S21 on USGS Davis Dam, Nev.-Ariz.-Calif. 15' quadrangle"
Types: Holotype in MGCL.
- j. ***Euphilotes enoptes primavera*** Austin, 1998

Syst. W. N. Am. Butterflies (45): 555, figs. 89 ♂ D, 90 ♂ V (holotype); 91 ♀ D, 92 ♀ V.

Original Combination: *Euphilotes enoptes primavera*

Type Locality: "Nevada: Mineral County; Wassuk Range, U.S. highway 95, 9.0 road miles south of Schurz, Penrod Canyon, 1463 m, T11N R29E S18 on Schurz, Nev. 15' quadrangle"

Types: Holotype in MGCL.

k. **Euphilotes enoptes langstoni** (Shields, 1975)

Bull. Allyn Mus. (28): 23-24, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V.

Original Combination: *Shijimiaeoides enoptes langstoni*

Type Locality: "California: Mono Co., 1.6 rd. mi. N of Mono-Inyo Co. line, Hwy. 395, ca. 6 rd. mi. S Sherwin Summit, ca. 5700"

Types: Holotype in MGCL.

541. **Euphilotes columbiae** (Mattoni, 1954)

Bull. South. Calif. Acad. Sci. 53(3): 162-163, no. 3, pl. 43, figs. 7 ♂ D (holotype), 11 ♀ V.

Original Combination: *Philotes enoptes columbiae*

Type Locality: "Columbia River near Brewster, Okanogan Co., Wash." [Washington]

Types: Holotype in USNM.

A. Warren (2005), Butterflies Ore.: 182-184, treated this as a species-level taxon.

542. **Euphilotes ancilla** (W. Barnes & McDunnough, 1918)

Pratt and J. Emmel (1998), Syst. W. N. Am. Butterflies (16): 213-215, and A. Warren (2005), Butterflies Ore.: 184-185, treated this as a species-level taxon.

a. **Euphilotes ancilla barnesi** Opler & M. Fisher, 2009

Butterflies Colo. 4: 126-128, top left ♂ D, top right ♂ V (holotype), 2nd left ♀ D, 2nd right ♀ V.

Original Combination: *Euphilotes ancilla barnesi*

Type Locality: "Colorado: Jefferson County, Indian Gulch, 1 mile west of Golden"

Types: Holotype in CSUC.

b. **Euphilotes ancilla ancilla** (W. Barnes & McDunnough, 1918)

Contrib. Nat. Hist. Lepid. N. Am. 4(2): 79; figured by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): pl. 11, figs. 2 ♂ D, 5 ♂ V, ♂ genitalia figured by W. Barnes and McDunnough (1917), Contr. Nat. Hist. Lepid. N. Am. 3(4): pl. 17, fig. 2 (as *Philotes battoides glaucon*).

Original Combination: [*Philotes enoptes*] *ancilla*

Type Locality: "Eureka, Utah" [Juab County]

Types: Holotype in USNM; paratypes figured by W.

Holland (1931), Butterfly Book (rev. ed.): pl. 66, figs. 41 ♂ V, 42 ♀ D, 43 ♀ V.

c. **Euphilotes ancilla giulianii** Pratt & J. Emmel, 1998

Syst. W. N. Am. Butterflies (16): 214-215, figs. 27 ♂ D, 28 ♂ V (holotype); 29 ♀ D, 30 ♀ V.

Original Combination: *Euphilotes ancilla giulianii*

Type Locality: "Nevada: Nye Co.; Grapevine Mountains; ridge 0.8 km southeast of Wahguyhe Peak 2,300-2,300 m"

Types: Holotype in LACM.

- d. **Euphilotes ancilla gilvatunica** Austin, 1998
Syst. W. N. Am. Butterflies (45): 553, figs. 77 ♂ D, 78 ♂ V (holotype); 79 ♀ D, 80 ♀ V.
Original Combination: *Euphilotes ancilla gilvatunica*
Type Locality: "Nevada: Washoe County; Nevada State Route 341, 3.3 road miles east of US 395, 1525 m, T18N R20E S5 on USGS Steamboat, Nev. 15' quadrangle"
Types: Holotype in MGCL.
- e. **Euphilotes ancilla shieldsi** Austin, 1998
Syst. W. N. Am. Butterflies (45): 553, figs. 73 ♂ D, 74 ♂ V (holotype); 75 ♀ D, 76 ♀ V.
Original Combination: *Euphilotes ancilla shieldsi*
Type Locality: "Nevada: Esmeralda County; White Mountains, Trail Canyon Road, 9.5 road miles west of Nevada state route 264, 2286 m, T1S R34E S6 on USGS Davis Mountain, Nev.-Calif. 15' quadrangle"
Types: Holotype in MGCL.
- f. **Euphilotes ancilla purpura** Austin, 1998
Syst. W. N. Am. Butterflies (45): 552, figs. 69 ♂ D, 70 ♂ V (holotype); 71 ♀ D, 72 ♀ V.
Original Combination: *Euphilotes ancilla purpura*
Type Locality: "Nevada: Clark County; Spring Mountains, Willow Creek, 1829 m, T18S R55E S2 on USGS Mt. Stirling quadrangle, 15' series"
Types: Holotype in MGCL.
- g. **Euphilotes ancilla cryptica** Austin & Boyd, 2008
J. Lepid. Soc. 62(3): 157-158.
Original Combination: *Euphilotes ancilla cryptica*
Type Locality: "Nevada: Clark County; Spring Mountains, Cold Creek, 1825m in elevation, towards the northern end of these mountains"
Types: Holotype in MGCL.
- h. **Euphilotes ancilla pseudointermedia** Pratt & J. Emmel, 1998
Syst. W. N. Am. Butterflies (16): 214, figs. 23 ♂ D, 24 ♂ V (holotype); 25 ♀ D, 26 ♀ V.
Original Combination: *Euphilotes ancilla pseudointermedia*
Type Locality: "California; Nevada Co.; Castle Peak near Donner Pass, 2,700 m"
Types: Holotype in LACM.

rita complex Pratt & J. Emmel, 1998
Syst. W. N. Am. Butterflies (17): 271.

543.

- Euphilotes rita** (W. Barnes & McDunnough, 1916)
- a. **Euphilotes rita rita** (W. Barnes & McDunnough, 1916)
Can. Entomol. 48(7): 223-224; paratypes figured by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): pl. 11, figs. 3 ♂ D, 6 ♂ V; ♂ genitalia figured by W. Barnes and McDunnough (1917), Contr. Nat. Hist. Lepid. N. Am. 3(4): pl. 17, figs. 5, 6.
Original Combination: *Lycaena rita*
Type Locality: "S. Arizona...Santa Rita Mts., Ariz....Rio Verdi Mts., Ariz."; defined as "Ramsey Canyon, Huachuca Mts., Cochise Co., Arizona" by Shields (1975), Bull. Allyn Mus. (28): 16.
Types: Syntypes, excluding the specimen from the Rio Verdi Mountains, in USNM; "paratypes" figured by W.

- Holland (1931), Butterfly Book (rev. ed.): pl. 66, figs. 39 ♂ D, 40 ♂ V.
- b. **Euphilotes rita coloradensis** (Mattoni, [1966])
J. Res. Lepid. 4(2): 88, 90, figs. 1, col. 2 top ♂ D (holotype), 2nd ♀ D, 3rd ♂ V (holotype), bottom ♀ V, figs. 3G ♂ genitalia ventral, 3H ♂ genitalia lateral, 3I aedeagus, 3J ♀ genitalia ventral, 3K ♀ genitalia ventral, 3L ♀ genitalia lateral, 7 1st and 2nd rows ♂&♀ V.
Original Combination: *Philotes rita coloradensis*
Type Locality: "south Kendrick, Lincoln County, Colorado"; holotype from "7 mi. S of Kendrick."
Types: Holotype in LACM.
544. **Euphilotes pallescens** (Tilden & Downey, 1955)
Pratt and J. Emmel (1998), Syst. W. N. Am. Butterflies (17): 271, treated this as a species-level taxon.
- a. **Euphilotes pallescens emmeli** (Shields, 1975)
Bull. Allyn Mus. (28): 16-17, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V.
Original Combination: *Shijimiaeoides rita emmeli*
Type Locality: "Utah: Emery Co., summit of road to 1½ mi. E of Little Flat Top, 5500', T26S, R13E, ca. 10-11 mi SE of Utah Hwy. 24"
Types: Holotype in MGCL.
- b. **Euphilotes pallescens pallescens** (Tilden & Downey, 1955)
Bull. South. Calif. Acad. Sci. 54(1): 25-26, pl. 11 figs. 1 ♂ valve, 3 ♂ genitalia (holotype), pl. 12 figs. 4 ♂ D (holotype), 5 ♀ D, 6 ♀ V.
Original Combination: *Philotes pallescens*
Type Locality: "Little Granite Mountain, Dugway Proving Grounds, Tooele County, Utah"
Types: Holotype in CAS.
- c. **Euphilotes pallescens mattonii** (Shields, 1975)
Bull. Allyn Mus. (28): 20, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V.
Original Combination: *Shijimiaeoides rita mattonii*
Type Locality: "Nevada: Elko Co., ridge 4 air mi. W of Charleston Reservoir, 6600', SW corner of T43N, R57E, SW of Jarbidge Mts."
Types: Holotype in MGCL.
- d. **Euphilotes pallescens arenamontana** Austin, 1998
Syst. W. N. Am. Butterflies (45): 556-557, figs. 97 ♂ D, 98 ♂ V (holotype); 99 ♀ D, 100 ♀ V.
Original Combination: *Euphilotes pallescens arenamontana*
Type Locality: "Nevada: Churchill County; U. S. Highway 50, Sand Mountain, 1310 m, T17N R32E S28 on USGS Fourmile Flat, Nev. 7.5' quadrangle"
Types: Holotype in MGCL.
- e. **Euphilotes pallescens ricei** Austin, 1998
Syst. W. N. Am. Butterflies (70): 815, figs. 1 top row left ♂ D, 2 top row left ♂ V (holotype), 1 top row right ♀ D, 2 top row right ♀ V.
Original Combination: *Euphilotes pallescens ricei*
Type Locality: "Nevada: Humboldt County; Sand Pass Road, about 15 miles northwest of Winnemucca, just west of Sand Pass, T38N R37E in an area dominated by sand dunes"

- Types:** Holotype in MGCL.
- f. **Euphilotes pallescens calneva** J. Emmel & T. Emmel, 1998
Syst. W. N. Am. Butterflies (18): 277-278, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Euphilotes pallescens calneva*
Type Locality: "California: Lassen County; SE Honey Lake Valley; 4.1 air mi. W. and 1.3 air mi. S. of Calneva railroad stop, 4120 ft. elev. (ca. 2 air mi. N. Of peak of Turtle Mtn.); S5, T26N, R17E"
Types: Holotype in LACM.
- g. **Euphilotes pallescens confusa** Pratt & J. Emmel, 1998
Syst. W. N. Am. Butterflies (17): 271-272, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Euphilotes pallescens confusa*
Type Locality: "California: Inyo Co., Rest Spring, 6,640', Cottonwood Mts., Death Valley Nat. Monument"
Types: Holotype in LACM.
- h. **Euphilotes pallescens elvirae** (Mattoni, [1966])
J. Res. Lepid. 4(2): 94, 95, fig. 1, col. 4, top ♂ D (holotype), 2nd ♂ D, 3rd ♂ V (holotype), bottom ♀ V, figs. 5R ♂ genitalia ventral, 5S ♂ genitalia ventral, 5T ♂ aedeagus, 5U ♂ genitalia lateral, 5V ♀ genitalia ventral, 5W ♀ genitalia lateral, 7 2nd and 3rd rows ♂&♀ V.
Original Combination: *Philotes rita elvirae*
Type Locality: "3.5 miles southwest of Pearblossom, L. A. Co., California" [Los Angeles County]
Types: Holotype in LACM.
545. **Euphilotes spaldingi** (W. Barnes & McDunnough, 1917)
a. **Euphilotes spaldingi spaldingi** (W. Barnes & McDunnough, 1917)
Contr. Nat. Hist. Lepid. N. Am. 3(4): 215-216, 262, 264, pl. 16, figs. 9 ♂ D, 10 ♂ V, 11 ♀ D, pl. 17, fig. 6 ♂ genitalia.
Original Combination: *Philotes spaldingi*
Type Locality: "Provo, Utah...Silver Lake, Utah...Stockton, Utah" defined as "Provo, Utah" by Shields (1975), Bull. Allyn Mus. (28): 21. [Utah County]
Types: Syntypes in USNM; "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 66, fig. 46 ♂ V.
b. **Euphilotes spaldingi pinjuna** Scott, 1981
Papilio (n.s.) 1: 6.
Original Combination: *Euphilotes spaldingi pinjuna*
Type Locality: "Shilling's Spring, Conejos Co., Colo." [Colorado]
Types: Holotype in LACM.

Genus *Glaucopsyche* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 54. Type-species: *Polyommatus lygdamus* E. Doubleday, 1841, Entomol. 1(14): 209-210, by original designation.

= *Phaedrotes* Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 115-116, no. 20. Type-species: *Lycaena catalina* Reakirt, 1866, Proc. Acad. Nat. Sci. Philad. 18(3): 244, no. 16 (= *Lycaena sagittigera* C. Felder & R. Felder, 1865, Reise Novara (2): 281-282, no. 357, pl. 35, figs. 20, 21: a subspecies of *Lycaena piasus* Boisduval, 1852, Annls.

- Soc. Entomol. Fr. (2)10(2): 299, no. 37), by original designation.
F. Brown (1971), J. Lepid. Soc. 25(4): 240-246, determined this synonymy.
- = *Apelles* Hemming, 1931
Trans. Entomol. Soc. Lond. 79(2): 323-324. Type-species: *Polyommatus melanops* Boisduval, [1828], Europ. Lepid. Ind. Meth.: 13, by original designation.
 - = *Bajluana* Korshunov & Ivonin, 1990
Nov. Maloizvest. Vid. Faun. Sib. 22: 69. Type-species: *Lycaena argali* Elwes, 1899, Trans. Entomol. Soc. Lond. (4)1899(3): 328, 329, by original designation.
- 546. *Glaucopsyche piasus* (Boisduval, 1852)**
- a. *Glaucopsyche piasus umbrosa* J. Emmel, T. Emmel & Mattoon, 1998**
Syst. W. N. Am. Butterflies (14): 172-173, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.
Original Combination: *Glaucopsyche piasus umbrosa*
Type Locality: "California: San Diego County; Laguna Mountains; slope ca. 0.2 air mile east of Big Laguna Lake, 5450' elevation; S.10, T.15S., R.5E."
Types: Holotype in LACM.
- b. *Glaucopsyche piasus sagittigera* (C. Felder & R. Felder, 1865)**
Reise Novara (2): 281-282, no. 357, pl. 35, figs. 20 ♂ D, 21 ♂ V.
Original Combination: *Lycaena sagittigera*
Type Locality: "Sonora"; suggested to be "vicinity of Los Angeles, California" by F. Brown (1971), J. Lepid. Soc. 25(4): 242; further defined as "Glendale, Los Angeles County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (5): 90.
Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies: 90, figs. 25 ♀ D, 26 ♀ V.
= *rhaea* (Boisduval, 1869)
Annls. Soc. Entomol. Belg. 12: 51, no. 33; figured by Oberthür (1913), Etud. Lépid. comp. 9(1): pl. 239, figs. 2078 ♂ D&V, 2079 ♀ D&V.
Original Combination: *Lycaena Rhaea*
Type Locality: "dans l'extreme sud aux environs de Los Angeles"; defined as "Glendale, Los Angeles County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 30.
Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 30, figs. 222 ♂ D, 223 ♂ V.
- c. *Glaucopsyche piasus gabrielina* J. Emmel, T. Emmel & Mattoon, 1998**
Syst. W. N. Am. Butterflies (14): 174-175, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.
Original Combination: *Glaucopsyche piasus gabrielina*
Type Locality: "California: Los Angeles County; ridge running east from Mt. Islip, WNW of Windy Gap, 7,600-8000' elevation, San Gabriel Mts.; S.16, T.3N, R.9W"
Types: Holotype in LACM.
= ‡"gorgonioi" (Gunder, 1925)
Entomol. News 36(1): 4, pl. 1, fig. P ♂ V ("holotype").

Original Combination: *Phaedrotes piasus* var. *catalina* ab. ♂ *gorgonioi*

Type Locality: "San Gorgonio Mountain, San Bernardino County, California"

Types: "Holotype" in AMNH; figured by J. A. Comstock (1927), *Butterflies Calif.*: pl. 56, fig. 23 ♂ V.

d. *Glaucopsyche piasus excubita* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butterflies (14): 173-174, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.

Original Combination: *Glaucopsyche piasus excubita*

Type Locality: "California: Inyo County; Bishop Creek...vicinity of Andrews Camp...known as Four Jeffrey Campground"

Types: Holotype in LACM.

e. *Glaucopsyche piasus piasus* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 299, no. 37; figured by Oberthür (1913), *Etud. Lépid. comp.* 9(1): pl. 237, fig. 1950 ♂ D&V.

Original Combination: *Lycaena Piasus*

Type Locality: "Californie" implied from the title of the paper; suggested to be "probably the vicinity of San Francisco" by F. Brown (1971), *J. Lepid. Soc.* 25(4): 242; defined as "Hwy. 70 at Soda Creek, E. Branch North Fork Feather River Canyon, Plumas County, California" by J. Emmel *et al.* (1998), *Syst. W. N. Am. Butterflies* (2): 16.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), *Syst. W. N. Am. Butterflies* (2): 16, figs. 81 ♂ D, 82 ♂ V.

= *catalina* (Reakirt, 1866)

Proc. Acad. Nat. Sci. Philad. 18(3): 244, no. 16.

Original Combination: *Lycaena catalina*

Type Locality: "California"

Types: Lectotype in FMNH, designated by F. Brown (1971), *J. Lepid. Soc.* 25(4): 242, figs. 16 ♂ D, 17 ♂ V.

= *viaca* (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 205, 209, no. 7; figured by W. H. Edwards (1870), *Butterflies N. Am.* [1](5): pl. *Lycaena* 2, figs. 26 ♂ D, 27 ♂ V.

Original Combination: *Lycaena Viaca*

Type Locality: "Sierra Nevada, Cal."; defined as "Lake Tahoe, Placer County, California" by F. Brown (1970), *Trans. Am. Entomol. Soc.* 96(3): 410-411.

Types: Holotype in AMNH; figured by F. Brown (1970), *Trans. Am. Entomol. Soc.* 96(3): fig. 24 ♂ D&V.

= *lorquini* (Behr, 1867)

Proc. Calif. Acad. Sci. [1]3(18): 280, no. 7.

Original Combination: *Lycaena Lorquini*

Type Locality: "California" implied from the title of the paper, "in the higher Sierra Nevada" from the description.

Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire. No neotype has been designated since this name is a homonym.

Preoccupied by *Lycaena lorquinii* Herrich-Schäffer, 1850, Syst. Bearb. Schmett. Europ. 6: 25.

- f. **Glaucopsyche piasus toxsuma** F. Brown, 1971
J. Lepid. Soc. 25(4): 245, figs. 10 ♂ V, 13 ♂ D, 14 ♂ V (holotype), 15 ♀ D.
Original Combination: *Glaucopsyche piasus toxsuma*
Type Locality: "Garnett Valley, Summerland, B. C." [British Columbia]
Types: Holotype in CNC.
- g. **Glaucopsyche piasus nevada** F. Brown, 1975
Proc. Entomol. Soc. Wash. 77(4): 501-503, fig. 1 ♂ D&V (holotype).
Original Combination: *Glaucopsyche (Phaedrotes) piasus nevada*
Type Locality: "Bob Scott Campground in the Toiyabe National Forest, Lander County, Nevada, 7300-7500 feet"
Types: Holotype in USNM.
- h. **Glaucopsyche piasus daunia** (W. H. Edwards, 1871)
Trans. Am. Entomol. Soc. 3(3/4): 266, 272, no. 10.
Original Combination: *Lycaena Daunia*
Type Locality: "Colorado"; defined as "Turkey Creek, Jefferson Co., Colorado" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 412.
Types: Holotype in CMNH; figured by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3). fig. 25 ♂ D&V.
- 547. **Glaucopsyche lygdamus** (E. Doubleday, 1841)
 - a. **Glaucopsyche lygdamus lygdamus** (E. Doubleday, 1841)
Entomol. 1(14): 209-210.
Original Combination: *Polyommatus Lygdamus*
Type Locality: "pine forests of North America, especially Georgia" A. Clark (1948), Proc. Entomol. Soc. Wash. 50(7): 176, suggested that the original specimens were collected by John Abbot in the "vicinity of his home at Jacksonboro, Screven Co., Georgia"; Klots (1951), Field Guide Butterflies N. Am.: 168, stated "Screven Co., Georgia." Drawings by John Abbot in the Natural History Museum in London indicate that he encountered this species long before his brief residence in Screven County, so Burke County, Georgia, is a more likely locality (Calhoun pers. comm. 2006).
Types: Holotype is lost or unrecognizable, not in BMNH or UMO.
 - = *nittanyensis* F. Chermock, 1945
Can. Entomol. 76(11): 216.
Original Combination: *Glaucopsyche lygdamus nittanyensis*
Type Locality: "Bear Meadows, near State College, Pa." [Centre County, Pennsylvania]
Types: Holotype in CMNH.
 - = *boydi* A. Clark, 1948
Proc. Entomol. Soc. Wash. 50(7): 176-177.
Original Combination: *Glaucopsyche lygdamus boydi*
Type Locality: "Ice Mountain, Hampshire Co., West Virginia"

- Types:** Holotype (#58715) in USNM; figured by A. Clark (1940), Expl. Field Work Smithson. Inst. 1939: fig. 70, left ♂ D, middle ♂ V (holotype), right ♀ V.
- b. *Glaucopsyche lygdamus mildredae*** F. Chermock, 1945
 Can. Entomol. 76(11): 216.
Original Combination: *Glaucopsyche lygdamus mildredae*
Type Locality: "small island off Baddeck...Cape Breton Island, N. S." [Nova Scotia]
Types: Holotype in CNC.
- c. *Glaucopsyche lygdamus couperi*** Grote, 1873
 Bull. Buffalo Soc. Nat. Sci. 1(4): 185.
Original Combination: *Glaucopsyche Couperi*
Type Locality: "Island of Anticosti, which lies in the Gulf of St. Lawrence, between latitudes 49° and 50°" implied from the introduction. [Quebec]
Types: Location of type(s) not known.
 = ‡"mcdunnoughi" Gunder, 1927
 Can. Entomol. 59(12): 282, no. 4, pl. A, figs. 4 ♂ D, 4a ♂ V ("holotype").
Original Combination: *Glaucopsyche lygdamus* race *couperi* tr. f. *mcdunnoughi*
Type Locality: "Sask., Can." [Saskatchewan]
Types: "Holotype" in CNC.
 This name was spelled "macdunnoughi" by dos Passos (1964), Mem. Lepid. Soc. (1): 68; an unjustified emendation.
- d. *Glaucopsyche lygdamus afra*** (W. H. Edwards, [1884])
 Can. Entomol. 15(11): 211.
Original Combination: *Lycaena Afra*
Type Locality: "Deer River country"; neotype from "vic. Brandon, Manitoba."
Types: Neotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 417, fig. 27 ♂ D&V.
- e. *Glaucopsyche lygdamus jacki*** D. Stallings & Turner, 1947
 J. Kansas Entomol. Soc. 20(3): 93-94.
Original Combination: *Glaucopsyche lygdamus jacki*
Type Locality: "Barber County, Kansas"
Types: Holotype and allotype in PMNH.
 = ‡"leussleri" Gunder, 1927
 Can. Entomol. 59(12): 283, no. 8, pl. A, fig. 8 ♂ V ("holotype").
Original Combination: *Glaucopsyche lygdamus* race *oro* tr. f. *leussleri*
Type Locality: "Harrisburg, Banner Co., Neb." [Nebraska]
Types: Holotype in OSU.
- f. *Glaucopsyche lygdamus oro*** (Scudder, 1876)
 Can. Entomol. 8(1): 23, no. 5.
Original Combination: *N[omiades]*. *Oro*
Type Locality: "Colorado"; syntype from "Fair Play Colo." [Fairplay, Park County, Colorado]
Types: Syntype (#16010) in MCZ.
- g. *Glaucopsyche lygdamus erico*** R. Holland, 2011

Lepid. North America 10: 13, 15, 16, figs. 11a ♂ D, 11b ♂ V (holotype), 12a ♀ D, 12b ♀ V.

Original Combination: *Glaucopsyche lygdamus erico*

Type Locality: "Raton Mesa Complex, Colfax County, NM: Soda Pocket Can., S slope, Sugarite St. Pk., 8,200" [New Mexico]

Types: Holotype in CSUC.

- h. ***Glaucopsyche lygdamus ruidoso*** R. Holland, 2011
Lepid. North America 10: 13, 14, 15, figs. 17a ♂ D, 17b ♂ V (holotype), 18a ♀ D, 18b ♀ V, 19a ♂ D, 19b ♂ V, 20a ♀ D, 20b ♀ V.

Original Combination: *Glaucopsyche lygdamus ruidoso*

Type Locality: "Capitan Mountains, Lincoln County, NM: 4 mi E of Capitan Gap on crest ridge, 9,500" [New Mexico]

Types: Holotype in CSUC.

- i. ***Glaucopsyche lygdamus minipunctum*** Austin, 1998
Syst. W. N. Am. Butterflies (45): 557-558, figs. 105 ♂ D, 106 ♂ V (holotype); 107 ♀ D, 108 ♀ V.

Original Combination: *Glaucopsyche lygdamus minipunctum*

Type Locality: "Nevada: Clark County; Virgin Mountains, Cabin Canyon, 1350 m, T15S R71E S4 on USGS Virgin Peak, Nev.-Ariz. 15' quadrangle"

Types: Holotype in MGCL.

- j. ***Glaucopsyche lygdamus deserticola*** Austin & J. Emmel, 1998

Syst. W. N. Am. Butterflies (42): 509-510, figs. 39 ♂ D, 40 ♂ V (holotype); 41 ♀ D, 42 ♀ V.

Original Combination: *Glaucopsyche lygdamus deserticola*

Type Locality: "Nevada: Clark County; Spring Mountains, Cottonwood Pass Road, 0.6-1.8 road miles south of Nevada state route 160 (Pahrump Road), 1340 m, T23S R58E S2 and T22S R58E S35 on the USGS Goodsprings, Nev. 15' quadrangle"

Types: Holotype in NVMC.

- k. ***Glaucopsyche lygdamus australis*** F. Grinnell, 1917
Can. Entomol. 49(10): 350-351.

Original Combination: *Glaucopsyche lygdamus australis*

Type Locality: "Pasadena" [Los Angeles County, California]

Types: Holotype in AMNH.

= ‡"sinopunctata" J. A. Comstock, 1926
Bull. South. Calif. Acad. Sci. 25(1): 28.

Original Combination: [*Glaucopsyche lygdamus behrii* race *australis*] ab. *sinopunctata*

Type Locality: "Mint Canyon, Los Angeles County, Calif." [California]

Types: "Holotype" in LACM.

- l. ***Glaucopsyche lygdamus palosverdesensis*** E. Perkins & J. Emmel, 1977

Proc. Entomol. Soc. Wash. 79(3): 468-471, figs. 1-5 ♂ D (holotype), 1-6 ♂ V, 1-7 ♀ D, 1-8 ♀ V.

Original Combination: *Glaucopsyche lygdamus palosverdesensis*

Type Locality: "Rancho Palos Verdes, Palos Verdes Peninsula, Los Angeles Co., California"

Types: Holotype in USNM.

m. *Glaucopsyche lygdamus sabulosa* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butterflies (14): 171-172, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Glaucopsyche lygdamus sabulosa*

Type Locality: "California: Monterey County; sand dunes west of intersection of Palm Avenue and Lake Drive, west of marina, 60-100' elevation"

Types: Holotype in LACM.

n. *Glaucopsyche lygdamus xerces* (Boisduval, 1852) †

Annls. Soc. Entomol. Fr. (2)10(2): 296, no. 31; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 237, figs. 1939 ♂ D&V, 1940 ♀ D&V.

Original Combination: *Lycaena Xerces*

Type Locality: "Californie" implied from the title of the paper; defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 13.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 13, figs. 57 ♂ D, 58 ♂ V.

Scott (1986), Butterflies N. Am.: 399, no. 395, treated this as a subspecies of *G. lygdamus*, an arrangement followed by various subsequent authors.

= *antiacis* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 300, no. 39; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 237, fig. 1951 ♂ D&V.

Original Combination: *Lycaena Antiacis*

Type Locality: "Environs de San Francisco"; defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 16.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 16, figs. 84 ♂ D, 85 ♂ V.

= *behrii* (W. H. Edwards, 1862)

Proc. Acad. Nat. Sci. Philad. 14(5): 224, no. 6.

Original Combination: *Lycaena Behrii*

Type Locality: "California"; defined as "vic. San Francisco, California" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 415. [San Francisco County]

Types: Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 417, fig. 27 ♂ D&V.

= *mertila* (W. H. Edwards, 1866)

Proc. Entomol. Soc. Philad. 6(2): 206, no. 5.

Original Combination: *Lycaena Mertila*

Type Locality: "California"; defined as "vic. San Francisco, California" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 418. [San Francisco County]

Types: Holotype in CMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 65, fig. 43 ♀ D, and F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): fig. 28 ♀ D&V.

= *polyphemus* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 49, no. 29; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 239, fig. 2071 ♂ D&V.

Original Combination: *Lycaena Polyphemus*

Type Locality: "Californie" implied from the title of the paper; defined as "San Francisco, San Francisco County, California"; by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 29.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 29, figs. 210 ♂ D, 211 ♂ V.

= ‡"huguenini" Gunder, 1925

Entomol. News 36(1): 3, no. 4, pl. 1, fig. O ♂ V ("holotype").

Original Combination: *Glaucopsyche xerces* form *mertila* ab. ♂ *huguenini*

Type Locality: "San Francisco, California" [San Francisco County]

Types: "Holotype" in LACM.

= ‡"barnesi" Gunder, 1927

Can. Entomol. 59(12): 282, no. 2, pl. A, figs. 2 ♂ V ("holotype"), 2a ♀ V.

Original Combination: *Glaucopsyche xerces* form *mertila* tr. f. *barnesi*

Type Locality: "San Francisco, Calif." [San Francisco County, California]

Types: "Holotype" in USNM.

= ‡"intermedia" F. Chermock, 1929

Bull. Brooklyn Entomol. Soc. 24(1): 20.

Original Combination: *Glaucopsyche xerces* var. *intermedia*

Type Locality: "Lone Mountain, San Francisco, Calif." [San Francisco County, California]

Types: "Holotype" in MGCL.

o. *Glaucopsyche lygdamus pseudoxerces* J. Emmel & T. Emmel, 1998

Syst. W. N. Am. Butterflies (22): 308, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Glaucopsyche lygdamus pseudoxerces*

Type Locality: "California: Santa Barbara County; Santa Rosa Island; Acapulco Canyon, 100-450' elevation (2.9-3.5 air miles W, 0.75-1.9 air miles S of 1,574' Soledad Mountain peak)"

Types: Holotype in LACM.

p. *Glaucopsyche lygdamus incognitus* Tilden, 1974

J. Res. Lepid. 12(4): 213-214.

Original Combination: *Glaucopsyche lygdamus incognitus*

Type Locality: "Alum Rock Park, Santa Clara County, Calif." [California]

Types: Holotype in CAS.

= ‡"sternitzkyi" Gunder, 1929

Bull. Brooklyn Entomol. Soc. 24(4): 325-326, pl. 31, fig. 2 ♂ D&V ("holotype").

Original Combination: *Glaucopsyche lygdamus* race *behrii* tr. f. *sternitzkyi*

Type Locality: "Fairfax, Marin Co., Calif." [California]

Types: "Holotype" in AMNH.

- q. ***Glaucopsyche lygdamus orcus*** (W. H. Edwards, 1869)
Trans. Am. Entomol. Soc. 2(4): 376.

Original Combination: *Lycaena Orcus*

Type Locality: not stated; suggested to be "Storey County, Nevada" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 420.

Types: Holotype in CMNH; figured by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): fig. 29 ♂ D&V.

- r. ***Glaucopsyche lygdamus columbia*** (Skinner, 1917)
Entomol. News 28(5): 213-214.

Original Combination: *Lycaena lygdamus columbia*

Type Locality: "Port Columbia, Washington" [Brewster, Okanogan County, Washington]

Types: Holotype (#7049) in CMNH; a paratype figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 66, fig. 2 ♂ D.

Genus *Hemiargus* Hübner, 1818

Zutr. Samml. exot. Schmett. 1: 19. Type-species: *Hemiargus antibubastus* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: pl. [18], figs. 99, 100; 19, no. 50 (= *Hesperia ceraunus*, Fabricius, 1793, Entomol. Syst. 3(1): 303, no. 149; subspecies), by designation of Hemming (1934), Gen. Names Holarct. Butterflies 1: 104.

*548. *Hemiargus ceraunus* (Fabricius, 1793)

Entomol. Syst. 3(1): 303, no. 149.

Original Combination: *H[esperia]. R[urales]. Ceraunus*

Type Locality: "America meridionalis Insulis"; defined as "Jamaica and Hispaniola" by W. Comstock and Huntington (1943), Ann. N. Y. Acad. Sci. 45(2): 107; stated to be "probably Jamaica" by Klots (1951), Field Guide Butterflies N. Am.: 159; suggested to be "Jamaica or Hispaniola" by F. Brown (1972), in: F. Brown and Heineman, Jamaica Butterflies: 252.

Types: Syntypes in ZMUC.

Lamas (2004g), Atl. Neotrop. Lepid. Chcklst. Part 4A: 139, placed *ceraunus* and all of its subspecies under *Hemiargus hanno* (Stoll, 1790), Aanhangs. Werk Uitl. Kapellen Pieter Cramer (3): 170, pl. 39, fig. 2 ♂ D, 2b ♂ V; 383 (index). This view was supported by W. Comstock and Huntington (1943), Ann. N. Y. Acad. Sci. 45(2): 106-107, N. Riley (1975), Field Guide Butterflies W. Indies: 109, pl. 12, figs. 12a, 12b, F. Brown and Heineman (1972), Jamaica Butterflies: 252-253, D. Smith *et al.* (1989), J. Lepid. Soc. 43(4): 282, and (1994), Butterflies W. Indies & S. Florida: 128, but disputed by Wood (1924), Entomol. News 35(10): 359-361, Nabokov (1945), Psyche 52(1/2): 20, Scott (1986), Papilio (n.s.) 3: 7, and K. Johnson and Bálint (1995), Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (54): 1-15. Schwartz (1989), Butterflies Hispaniola: 262-266, reported *H. hanno* and *H. ceraunus* as widely sympatric on Hispaniola, but did not indicate how he

separated them. Additional research is needed to resolve the issue.

a. *Hemiargus ceraunus antibubastus* Hübner, 1818

Zutr. Samml. exot. Schmett. 1: pl. [18], figs. 99 ♂ D, 100 ♂ V [1813]; 19, no. 50 (1818, name given).

Original Combination: *Hemiargus Antibubastus*

Type Locality: "Georgien in Florida"

Types: Type(s) probably lost.

This taxon was originally given the name *Rusticus bubastus* Hübner, 1808, Erste Zutr. Samml. exot.

Schmett.: 5, but this document was suppressed by I.C.Z.N. *Opinion* 789.

= *pseudoptiletes* (Boisduval & Le Conte, [1835])

Hist. Lépid. Amér. sept. (12): 114-117, pl. 35, figs. 5 ♂ D, 6 ♀ D, 7 ♀ V; cited *Polyommatus filenus* Poey, 1832, Cent. Lép. Cuba (2): pl. [13], figs. [1], [2], [3], *Rusticus hanno* Hübner [1812], Samml. exot. Schmett. 1: pl. [98], *Papilio ubaldus* Stoll, 1781, Uittl. Kapellen 4(32): pl. 390, figs. L, M, and *Polyommatus ubaldus* Godart, [1824], in: Ency. méth. 9(Ins.)(2): 682, no. 207.

Original Combination: *A[rgus]. Pseudoptiletes*

Type Locality: "Caroline, la Virginie, Géorgie, dans plusieurs Antilles et au Mexique"

Types: Types were the specimens upon which Émile Blanchard based his illustrations, probably from Boisduval's collection. A "type" is supposedly in USNM, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such Boisduval "types."

b. *Hemiargus ceraunus astenidas* (Lucas, 1857)

In: Sagra, Hist. Cuba: 7(2): 613.

Original Combination: *Lycaena Astenidas*

Type Locality: "habite l'île de Cuba...Martinique" in error; apparently from Central America or eastern Mexico.

Types: Type(s) probably in MNHP.

= *zachaeina* (Butler & H. Druce, 1872)

Cist. Entomol. 1(5): 104-105; figured by Butler (1873), Lepid. Exot. (13): 157, pl. 57, fig. 1 ♂ V.

Original Combination: *L[ampides]. Zachaeina*

Type Locality: "Cartago, Costa Rica" implied from the title and introduction to the paper.

Types: Lectotype (#265760) in BMNH, designated by Bálint (1999), Neue Entomol. Nachr. 46: 7.

c. *Hemiargus ceraunus gyas* (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 205, 210-211, no. 10.

Original Combination: *Lycaena Gyas*

Type Locality: "Arizona"; neotype from "Tucson, Pima Co., Arizona."

Types: Neotype in CMNH, designated by F. Brown and Clench (1970), Trans. Am. Entomol. Soc. 96(3): 362, fig. 4 ♂ D&V.

= *astragala* (W. G. Wright, 1905)

Butterflies W. Coast: 64, no. 401; 232, no. 401, pl. 30, fig. 401 ♂ V (holotype).

Original

Combination: [*Lycaena*] *Astragala*; *Lycaena Astragala* n. s.

Type Locality: "Southern California" "San Bernardino, Cal." [San Bernardino County]

Types: Holotype (#4320) in CAS.

= *florencia* (Clemence, 1914)
Entomol. News 25(1): 28.

Original Combination: *Lycaena florencia*

Type Locality: "Southern Arizona (Huachuca Mountains...)...Brawley, Imperial Valley, California...Yuma Arizona"

Types: Location of type(s) not known.

Genus **Cyclargus** Nabokov, 1945

Psyche 52(3/4): 14-16. Type-species: *Lycaena ammon* Lucas, 1856, in: Sagra, Hist. Cuba 7(2): 612, pl. [Ins.] 16, figs. 7, 7a, 7b, by original designation. K. Johnson and Bálint (1995), Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (54): 1-15, placed this genus in the *Polyommatus* section.

***549. Cyclargus thomasi** (Clench, 1941)

Mems. Soc. Cub. Hist. Nat. "Felipe Poey" 15(4): 407-408.

Original Combination: *Hemiargus catalina thomasi*

Type Locality: "Arthur's Town, Cat Island, Bahamas"

Types: Holotype (#25736) in MCZ.

a. Cyclargus thomasi bethunebakeri (W. Comstock & Huntington, 1943)

Ann. N. Y. Acad. Sci. 45(2): 97-98, pl. 1, fig. 25 ♂ V.

Original Combination: *Hemiargus ammon bethunebakeri*

Type Locality: "southern Florida...Miami" [Miami-Dade County]

Types: Holotype in AMNH.

550. Cyclargus ammon (Lucas, 1857)

In: Sagra, Hist. Cuba: 7(2): 612, pl. [Ins.] 16, figs. 7 ♂ & ♀ D, 7b ♀ V.

Original Combination: *Lycaena Ammon*

Type Locality: "environs de la Havane; elle habite aussi le Yucatan" [Cuba and Mexico]

Types: Type(s) probably in MNHP.

This taxon was recorded from Florida by Beck (1985), News Lepid. Soc. 1985(2): 29, and has since become established in the lower Keys. It had been recorded previously from Florida, but always as a misidentification of *C. t. bethunebakeri*; see Calhoun *et al.* (2002), Holarct. Lepid. 7(1): 13-20.

Genus **Echinargus** Nabokov, 1945

Psyche 52(1/2): 27-28. Type-species: *Lycaena isola* Reakirt, [1867], Proc. Acad. Nat. Sci. Philad. 18(4): 332, no. 28, by original designation. K. Johnson and Bálint (1995), Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (54): 1-15, placed this genus in the *Polyommatus* section.

551. Echinargus isola (Reakirt, [1867])

Proc. Acad. Nat. Sci. Philad. 18(4): 332, no. 28.

Original Combination: *Lycaena isola*

Type Locality: "Mexico (near Vera Cruz)" [Veracruz]

Types: Syntype said to be in FMNH, but possibly lost.

= *nyagora* (Boisduval, 1870)

Consid. Lépid. Guat.: 17.

Original Combination: *Lycaena Nyagora*

Type Locality: "Mexique...Honduras"; lectotype from "Mex." [Mexico]

Types: Lectotype (#265591) in BMNH, designated by Bálint (1999), Neue Entomol. Nachr. 46: 8.

= *alce* (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 266, 272-273, no. 11.

Original Combination: *Lycaena Alce*

Type Locality: "Colorado"; defined as "Turkey Creek, Jefferson Co. and Georgetown, Clear Creek Co." by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 162; subsequently defined as "vicinity of Turkey Creek Junction on the old stage road between Denver and the mining fields of northern South Park" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 363; neotype from "Larkspur, Douglas Co., Colorado."

Types: Neotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 365, fig. 5 ♀ D&V.

Lamas (2004g), Atl. Neotrop. Lepid. Chcklst. Part 4A: 139, treated this taxon as a synonym of *E. isola*.

Genus **Polyommatus** Latreille, 1804

Nouv. Dict. Hist. Nat. 24(tab.): 185, no. 474, 200. Type-species: *Papilio icarus* Rottemburg, 1775, Naturforscher 6: 31, by designation of I.C.Z.N. *Opinion* 175 as a misidentified type-species (Article 70.3). I.C.Z.N. *Opinion* 270 placed *Polyommatus* on the *Official List of Generic Names in Zoology* as name no. 689.

552. **Polyommatus icarus** (Rottemburg, 1775)

a. **Polyommatus icarus icarus** (Rottemburg, 1775)

Naturforscher 6: 21-22, no. 8; cited Rösel von Rosenhof (1761), Der monat. Insect.-Belustig. 3: pl. 37, figs. 3 ♂ D, 5 ♂ V.

Original Combination: *Pap[ilio]. Icarus*

Type Locality: "Berlin" [Sachsen, Germany]

Types: Location of types not known.

Most of the Palaearctic synonymy is not included.

Reported from Canada by P. Hall (2007), News Lepid. Soc. 49(4):111, 117.

= *†alexis* (Scopoli, 1763)

Entomol. Carn.: 179-180, no. 461.

Original Combination: *P[apilio]. Alexis*

Type Locality: "in sylvestribus"

Types: Location of types not known.

Preoccupied by *Papilio alexis* Poda, 1761, Mus. Graec.: 77, no. 47.

= *†thetis* (Esper, 1777)

Die Schmett. 1(1)(6): pl. 32, fig. 2 ♂ D&V; 1(1)(9): 332.

Original Combination: *P[apilio]. P[lebejus].*

R[uralis]. Thetis

Type Locality: Not stated.

Types: Location of types not known.

Preoccupied by *Papilio thetis* Drury, 1773, Ill. Nat. Hist. 2: 16, index, pl. 9, figs. 3, 4.

= *pampholyge* (Bergsträsser, 1779)

Nom. Ins. 2: 77, pl. 47, figs. 1 ♀ D, 2 ♀ V.

Original Combination: *P[apilio]. P[lebejus].*

R[uralis]. Pampholyge

- Type Locality:** Not stated; "Hanau-Münzenburg" implied from the title of the work. [Hesse, Germany]
Types: Location of types not known.
- = *candybus* (Bergsträsser, 1779)
 Nom. Ins. 2: 78, pl. 48, figs. 1 ♂ D, 2 ♂ V.
Original Combination: *P[apilio]. P[lebejus]. R[uralis]. Candybus*
Type Locality: Not stated; "Hanau-Münzenburg" implied from the title of the work. [Hesse, Germany]
Types: Location of types not known.
- = *candiope* (Bergsträsser, 1779)
 Nom. Ins. 2: 78-79, pl. 48, figs. 3 ♂ D, 4 ♂ V.
Original Combination: *P[apilio]. P[lebejus]. R[uralis]. Candiope*
Type Locality: Not stated; "Hanau-Münzenburg" implied from the title of the work. [Hesse, Germany]
Types: Location of types not known.
- = *candaon* (Bergsträsser, 1779)
 Icon Pap. 1: 5-6, pl. 6, figs. 3 ♂ D, 4 ♂ V.
Original Combination: *P[apilio]. P[lebejus]. R[uralis]. Candaon*
Type Locality: "Hanoicus"
Types: Location of types not known.
- = *oceanus* (Bergsträsser, 1779)
 Icon Pap. 1: 7, pl. 9, figs. 3 ♂ D, 4 ♂ V.
Original Combination: *P[apilio]. P[lebejus]. R[uralis]. Oceanus*
Type Locality: "Hanoicus"
Types: Location of types not known.
- = *polyphemus* (Esper, 1779)
 Die Schmett. 1(1)(9): 387-388, pl. 50, 2 ♂ D, 3 ♂ V.
Original Combination: *P[apilio] P[lebejus]. Rur[alis]. Polyphemus*
Type Locality: "waldichten Orten"
Types: Location of types not known.
- = *fuscioleus* (Geoffroy, 1785)
 In: Fourcroy, Entomol. Paris 2: Ent. Paris.: 245, no. 32.
Original Combination: *P[apilio]. fuscioleus*
Type Locality: Not stated; "Parisiensis" implied from the title of the work.
Types: Location of types not known.
- = *icarinus* (Scharfenberg, 1791)
 Scriba, Journ. Ent. 1: 216.
Original Combination: *Pap[ilio]. Icarinus*
Type Locality: Not stated.
Types: Location of types not known.
- = *oebalus* (Hofmannsegg, 1804)
 Mag. f. Insektenk. (Illiger) 3: 185; cited *Papilio alexis* Scopoli (1763), Entomol. Carn.: 179-180, no. 461.
Original Combination: *[Papilio] Oebalus*
 Proposed as a replacement name for *Papilio alexis* Scopoli, 1763, preoccupied, with the same data (Code Article 60.3).
- = *iphis* Meigen, 1830

Syst. Besch. Eur. Schmett. 2: 25-26, no. 32, pl. 47, fig. 5 ♂ D.

Original Combination: *Polyommatus lphis*

Type Locality: Not stated.

Types: Location of types not known.

= *pusillus* (Gerhard, 1851)

Vers. monogr. Europ. Schmett. (1): 15, no. 73, pl.

28, fig. 3 a ♂ D. 3b ♀ D, 3 c ♀ V.

Original Combination: *Lycaena Alexis* var. *Pusillus*

Type Locality: "Deutschland"

Types: Location of types not known.

Genus *Plebejus* Kluk, 1780

Zwierz. Hist. Nat. Pocz. Gospod. 4: 89-92, no. 148. Type-species: *Papilio argus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 483, no. 152, by designation of Hemming (1933), Entomol. 66(845): 224.

I.C.Z.N. *Opinion* 278 placed *Plebejus* on the *Official List of Generic Names in Zoology* as name no. 705. Bálint *et al.* (2001), Folia Entomol. Hung. 62: 177-184, discussed this issue.

Subgenus *Lycaeides* Hübner, [1819]

Verz. bekannt. Schmett. (5): 69. Type-species: *Papilio argyrognomon* Bergsträsser, [1779], Nom. Ins. 2: 76, pl. 46, figs. 1, 2, by designation of I.C.Z.N. *Opinion* 269. This species is to be interpreted by reference to the male genitalia figured by Chapman (1917), *in*: Oberthür, Étud. Lépid. Comp. 14: pl. 5, fig. 23 ♂ genitalia. I.C.Z.N. *Opinion* 270 placed *Lycaeides* on the *Official List of Generic Names in Zoology* as name no. 688. Bálint and K. Johnson (1997), Neue Entomol. Nachr. 40: 9, considered this a synonym or subgenus of *Plebejus*.

*553. *Plebejus idas* (Linnaeus, 1761)

Fauna Svecica (ed. 2): 284, no. 1075; cited Linnaeus (1746), Fauna Svecica: 247, nos. 804-805, and Ray (1710), Hist. Ins. Ins.: 131, no. 12.

Original Combination: *P[apilio]. P[lebejus ruricola]. Idas*

Type Locality: "Ericetis"; "Svecica" determined by

I.C.Z.N. *Opinion* 269.

Types: Types apparently lost.

I.C.Z.N. *Opinion* 269 gave priority to this name over *Papilio idas* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 488 no. 192, determined this species by reference to the male genitalia figured by Chapman (1917), *in*: Oberthür, Étud. Lépid. Comp. 14: pl. 3, fig. 7 ♂ genitalia, and placed this name on the *Official List of Specific Names in Zoology* as name no. 85.

= *acreon* (Fabricius, 1787)

Mantissa Ins. 2: 76, no. 699.

Original

Combination: *P[apilio]. P[lebejus]. R[uralis]. Acreon*

Type Locality: "Russia meridionali"

Types: Syntypes in HMUG.

= *amphion* (Fabricius, 1793)

Entomol. Syst. 3(1): 301, no. 139.

Original Combination: *H[esperia]. R[uralis]. Amphion*

Type Locality: "Germania" [Germany]

Types: Type(s) probably lost.

a. *Plebejus idas empetri* T. Freeman, 1938

Can. Entomol. 70(3): 62-63, figs. 1 ♂ V (holotype), 2 ♀ V, 5 ♂ genitalia.

Original Combination: *Plebeius scudderi empetri*

Type Locality: "Baddeck, N. S." [Nova Scotia]

- Types:** Holotype (#4347) in CNC.
- b. **Plebejus idas aster** (W. H. Edwards, 1882)
Can. Entomol. 14(10): 194-195.
Original Combination: *Lycaena Aster*
Type Locality: "Southern Newfoundland"; defined as "Avalon Peninsula" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 370-371. [Newfoundland and Labrador]
Types: Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 371, fig. 8 ♂ D&V; paralectotypes figured by W. Holland (1898), Butterfly Book: pl. 30, figs. 40 ♂ D, 46 ♀ D, 47 ♂ V.
- c. **Plebejus idas scudderii** (W. H. Edwards, 1861)
Proc. Acad. Nat. Sci. Philad. 13(6): 160, 164, no 9.
Original Combination: *Lycaena Scudderii*
Type Locality: "Lake Winnipeg" [Manitoba]; corrected to "mouth of Saskatchewan River, Manitoba" by Scudder (1886), Winnipeg Country: 56; neotype from "Saskatchewan."
Types: Neotype in MCZ, designated by Nabokov (1945), Psyche 50(3/4): 93; figured by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): fig. 7 ♂ D&V.
= *subarcticus* F. Chermock, 1945
Can. Entomol. 76(11): 213.
Original Combination: *Plebeius scudderii subarcticus*
Type Locality: "Fairchild Point, Great Slave Lake, N. W. T., Canada" [Northwest Territories]
Types: Location of type(s) not known, possibly MGCL.
- d. **Plebejus idas nabokovi** (Masters, 1972)
J. Lepid. Soc. 26(3): 151-153, fig. 1 ♂ D, 2 ♀ D, 3 ♀ V.
Original Combination: *Lycaeides argyrognomon nabokovi*
Type Locality: "Along Forest Road 122 in section 24 of Township 56 N, Range 11 W., Lake County, Minnesota"
Types: Holotype in CMNH.
- e. **Plebejus idas alaskensis** F. Chermock, 1945
Can. Entomol. 76(11): 213.
Original Combination: *Plebeius scudderii alaskensis*
Type Locality: "Ft. Yukon, Alaska"
Types: Holotype in MGCL.
- f. **Plebejus idas ferniensis** F. Chermock, 1945
Can. Entomol. 76(11): 215.
Original Combination: *Plebeius ferniensis*
Type Locality: "Fernie, B. C." [British Columbia]
Types: Holotype in MGCL; figured by Nabokov (1949), Bull. Harvard Mus. Comp. Zool. 101(4): pl. 5, fig. 47 ♂ V.
- g. **Plebejus idas atrapraetextus** W. D. Field, 1939
J. Kansas Entomol. Soc. 12(4): 135-136.
Original Combination: *Plebeius scudderii atrapraetextus*
Type Locality: "Priest River, Idaho" [Bonner County]
Types: Holotype in USNM.
= *sweadneri* F. Chermock, 1945
Can. Entomol. 76(11): 214.
Original Combination: *Plebeius scudderii sweadneri*

- Type Locality:** "Uranus Peak, Shoshone Co., Idaho, altitude 5200 feet"
Types: Holotype in MGCL.
- h. **Plebejus idas longinus** (Nabokov, 1949)
 Bull. Harvard Mus. Comp. Zool. 101(4): 516-520, pl. 1, fig. 1.31, 32, 33, 34, 35, 36 ♂ uncus and falx, pl. 5, fig. 64 ♂ V, pl. 8, fig. 106 ♀ D.
Original Combination: *Lycaeides argyrognomon longinus*
Type Locality: "Jackson's [sic!] Hole, N. W. Wyoming" [Jackson Hole, Teton County]
Types: Holotype (#27845) in MCZ.
- i. **Plebejus idas sublivens** (Nabokov, 1949)
 Bull. Harvard Mus. Comp. Zool. 101(4): 513-516, pl. 1, fig. 27 left ♂ uncus and falx, pl. 5, fig. 65 ♂ V (holotype).
Original Combination: *Lycaeides argyrognomon sublivens*
Type Locality: "Telluride, San Miguel Mts., S. W. Colorado, alt. 10,000-12,000 ft." [San Miguel County]
Types: Holotype (#27844) in MCZ.
554. **Plebejus anna** (W. H. Edwards, 1861)
- a. **Plebejus anna anna** (W. H. Edwards, 1861)
 Proc. Acad. Nat. Sci. Philad. 13(6): 160, 163, no. 8.
Original Combination: *Lycaena Anna*
Type Locality: "California"; defined as "Truckee, Nevada Co., California" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 366-367; neotype from "Sierra Nevada."
Types: Neotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 367-368, fig. 6 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 66, fig. 21 ♂ D.
 = *cajona* (Reakirt, 1866)
 Proc. Entomol. Soc. Philad. 6(1): 147-148, note.
Original Combination: *Lycaena Cajona*
Type Locality: "California"
Types: Syntype (#7789) in ANSP, other syntypes in FMNH. Nabokov (1949), Bull. Harvard Mus. Comp. Zool. 101(4): 487, stated that a ♂ "cotype" was in the MCZ.
 = *argyrotoxis* (Behr, 1867)
 Proc. Calif. Acad. Sci. [1]3(18): 281, no. 13.
Original Combination: *L[ycæna]. Argyrotoxis*
Type Locality: "California" implied from the title of the paper, "the Sierra Nevada" from the description; neotype from "slope 0.6 air miles S. of S. end of Lake Mary, 7200-7500', S. of Donner Pass, SE 1/4 of S. 20 & SW 1/4 of S/ 21, T. 17N, R15E, Nevada County, California."
Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 103, figs. 64 ♂ D, 65 ♂ V.
 = *philemon* (Boisduval, 1869)
 Annls. Soc. Entomol. Belg. 12: 47-48, no. 26; figured by Oberthür (1913), Etud. Lépid. comp. 9(1): pl. 238, fig. 1965 ♂ D&V.
Original Combination: *Lycaena Philemon*

- Type Locality:** “le centre de la Californie”; defined as “Donner Pass, Nevada County, California” by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 28.
- Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 28, figs. 198 ♂ D, 199 ♂ V.
- b. *Plebejus anna ricei*** Cross, 1937
Pan-Pac. Entomol. 13(1/2): 88.
Original Combination: *Plebeius scudderii ricei*
Type Locality: “vicinity of Big Cultus Lake, Oregon” [Deschutes County]
Types: Holotype possibly in DMNH.
= *frechini* F. Chermock, 1945 (emended)
Can. Entomol. 76(11): 214.
Original Combination: *Plebeius scudderii frechini*
Type Locality: “Paradise Valley, Mt. Rainier, Washington” [Pierce County]
Types: Holotype in MGCL.
This name is a patronym of D. P. Frechin as indicated in the text; thus the emendation (Code Articles 19.2, 32.2.2, 33.2).
- c. *Plebejus anna lotis*** (Lintner, 1878) †
Entomol. Contr. 4: 57-58.
Original Combination: *Lycaena Lotis*
Type Locality: “Mendocino, California” [Mendocino County]
Types: Syntype (#5668) in NYSM; figured by Nabokov (1949), Bull. Harvard Mus. Comp. Zool. 101(4): pl. 4, fig. 43 ♀ V, pl. 8, fig. 107 ♀ D.
- d. *Plebejus anna azureus*** (J. Emmel, T. Emmel & Mattoon, 1998)
Syst. W. N. Am. Butterflies (14): 175-176, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V.
Original Combination: *Lycaeides idas azureus*
Type Locality: “California: Trinity County; White Rock, 10 miles south of Wildwood”
Types: Holotype in LACM.
- e. *Plebejus anna vancouverensis*** (C. Guppy & J. Shepard, 2001)
Butterflies B. C.: 236-237, figs. ♂ D&V (holotype), ♀ D&V.
Original Combination: *Lycaeides anna vancouverensis*
Type Locality: “BC, Strathcona Park, Cream Lake, 1,400m” [Vancouver Island, British Columbia]
Types: Holotype in BCPM.
- f. *Plebejus anna benwarner*** Scott, 2006
Papilio (n.s.) 12: 56, pl. 4, 3rd row left ♂ V (holotype).
Original Combination: *Plebejus atrapraetextus benwarner*
Type Locality: “Cedar Pass, Modoc Co., Calif.” [California]
Types: Holotype in BMNH.
A. Warren (2005), Butterflies Ore.: 188, suggests that this taxon is conspecific with *P. anna*.
- 555. *Plebejus melissa*** (W. H. Edwards, 1873)
a. *Plebejus melissa melissa* (W. H. Edwards, 1873)

Trans. Am. Entomol. Soc. 4(4): 346-348; figured by Mead (1875), Rep. Coll. diurn. Lepid. 5(Zool.): pl. 36, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.

Original Combination: *Lycaena Melissa*

Type Locality: "Colorado...Nevada...Arizona"; suggested to be "Fairplay" [Park County, Colorado] by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 162; defined as "vicinity of Twin Lakes, Lake Co., Colorado...probably...on La Plata Peak" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 372. Redefined, probably in error, to "Tinytown" [Turkey Creek Junction, Jefferson County, Colorado] by Scott (2006), Papilio (n.s.) 12: 60. F. Brown's (1934) definition of "Fairplay" is most likely correct (A. Warren pers. comm. 2006).

Types: Lectotype in CMNH, designated by F. M. Brown, 1970, Trans. amer. ent. Soc. 96(3): 374-375, fig. 9 ♂ D&V.

- b. **Plebejus melissa pseudosamuelis** (Nabokov, 1949)
Bull. Harvard Mus. Comp. Zool. 101(4): 529-530, pl. 1, fig. 28 ♂ uncus and falx, pl. 6, figs. 75 ♂ V (holotype), 76 ♀ V, pl. 9, fig. 120 ♀ D.

Original Combination: *Lycaeides melissa pseudosamuelis*

Type Locality: "vic. Red Mt. Inn, Highway 82, between Mt. Elbert and La Plata, Pitkin Co., Colorado"

Types: Holotype (#27846) in MCZ.

- c. **Plebejus melissa annetta** (W. H. Edwards, 1882)
Papilio 2(3): 45, 48-49, no. 5.

Original Combination: *Lycaena Annetta*

Type Locality: "near Salt Lake, Utah"; Mead's specimens were suggested to have come from the "Wasatch Mts." by Nabokov (1949), Bull. Harvard Mus. Comp. Zool. 101(4): 532-533.

Types: Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 376-377, fig. 10 ♂ D&V; paralectotype figured by W. Holland (1898), Butterfly Book: pl. 332, fig. 14 ♀ D.

= ‡"caeca" (Courvoisier, 1912)
Dtsche. Entomol. Z. "Iris" 26(1): 63.

Original Combination: [*Lycaena annetta*]
F[orma]. *caeca*

Type Locality: "Nd. Amer" [North America]

Types: "Type(s)," if extant or recognizable, probably in NHMB.

- d. **Plebejus melissa alateres** (Austin, 1998)
Syst. W. N. Am. Butterflies (45): 558-559, figs. 109 ♂ D, 110 ♂ V (holotype); 111 ♀ D, 112 ♀ V.

Original Combination: *Lycaeides melissa alateres*

Type Locality: "Nevada: Clark County; Moapa Valley, Logandale, 415 m, T15S R67E S27 on USGS Overton, Nev. 15' quadrangle"

Types: Holotype in MGCL.

- e. **Plebejus melissa inyoensis** (Nabokov, 1949)
Bull. Harvard Mus. Comp. Zool. 101(4): 530-532.

Original Combination: *Lycaeides melissa inyoensis*
Nabokov adopted *Plebeius melissa* tr.

f. *inyoensis* Gunder, 1927, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

- = ‡*inyoensis* Gunder, 1927
Can. Entomol. 59(12): 281-282, no. 1, pl. A, fig. 1 ♂ V ("holotype").

Original Combination: *Plebeius melissa* tr. f. *inyoensis*

Type Locality: "Olancho, Inyo Co., Calif." [California]

Types: Holotype in AMNH.

- f. ***Plebeius melissa paradoxa*** F. Chermock, 1945
Can. Entomol. 76(11): 214.
Original Combination: *Plebeius melissa paradoxa*
Type Locality: "Tehachapi Mts., California" [Kern County]

Types: Location of holotype not known.

556. ***Plebeius samuelis*** (Nabokov, 1944)
Psyche 50(3/4): 97-99.
Original Combination: *Lycaeides melissa samuelis*
Type Locality: Not stated; "Albany, N. Y...Center, New York" implied from the type series. The holotype is labeled "Orig. Pl. 6, Butt. N. Engl. Cab. S. H. Scudder, 306/ Mus. Comp. Zool. Slide No. 338," and the genitalia from this slide were figured by Nabokov (1945), Psyche 51(3/4): 109, fig. 1, labeled "Albany, New York." Scudder visited Center to sample his "namesake" only once, and the holotype is a specimen reared from this visit (R. Dirig pers. comm. 2006). Thus, Klots' (1951), Field Guide Butterflies N. Am.: 166, determination of "Center (formerly Karner), New York" is accurate. [Albany County]
Types: Holotype (#26704) in MCZ; figured by Scudder (1889), Butterflies E. U. S. & Can. 3(4): pl. 34, fig. 29 ♂ genitalia; (7): pl. 6, fig. 6 ♂ D&V.
Lane & Weller (1994), Univ. Minn. Agric. Exp. Stat. Misc. Publ. 84-1994: 5-21, offered support for the specific status of this taxon. Lucas *et al.* (2008), Ann. Entomol. Soc. Am. 101(1):172-180, Forister *et al.* (2010), Biology Letters: <> also supported this status. On the other hand, Packer *et al.*, (1998), Can. J. Zool. 76(2): 320-329 and Gompert *et al.*, (2006) Molec. Ecol. 15(7): 1759-1768, offer evidence that it is a subspecies of *Plebeius melissa*.
557. ***Plebeius fridayi*** F. Chermock, 1945
Can. Entomol. 76(11): 215.
Original Combination: *Plebeius melissa fridayi*
Type Locality: "Mammoth [*sic!*], California" [Mammoth, Mono County]
Types: Location of holotype not known.
K. Davenport (2004), Tax. Rept. Int. Lepid. Surv. 5(1): 32, treated this as a species-level taxon.

Subgenus ***Plebeius*** Kluk, 1780

- = ‡*Rusticus* Hübner, [1806]
Tentamen: [1]. Type-species: *Papilio argus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 483, no. 152, by monotypy.
I.C.Z.N. *Opinion* 97 suppressed the Tentamen and the names within it. I.C.Z.N. *Opinion* 278 placed *Rusticus* Hübner, [1806], on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 213.
= ‡*Plebeius* W. F. Kirby, 1871

Syn. Cat. diurn. Lepid.: 653. Type-species: *Papilio argus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 483, no. 152, by designation of Crotch (1872), Cist. Entomol. 1(4): 60. A junior objective synonym and homonym of *Plebejus* Kluk, 1780.
 = ‡*Lycoena* Nicholl, 1901
 Trans. Entomol. Soc. Lond. (4)1901(1): 92-95, nos. 73-87.
 Type-species: *Papilio argus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 483, no. 152, by designation of Cowan (1970), Annot. Rhop. 1970: 11. A junior objective synonym of *Plebejus* Kluk, 1780.

558. **Plebejus saepiolus** (Boisduval, 1852)

a. **Plebejus saepiolus amica** (W. H. Edwards, 1863)

Proc. Entomol. Soc. Philad. 2(2): 78, 80-81, no. 4.

Original Combination: *Lycaena Amica*

Type Locality: "Mackenzie's River"; neotype from "Fort Smith, N. W. T." [Northwest Territories]

Types: Neotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 379, fig. 11 ♂ D&V. This same specimen was redesignated as neotype by Kondla and C. Guppy (2002), Tax. Rep. Int. Lepid. Surv. 3(6): 4, figs. 5 ♂ D, 6 ♂ V, because they erroneously thought Brown failed to comply with Code Article 75.3.1.

= *kodiak* (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(1): 10, 20, no. 14.

Original Combination: *Lycaena Kodiak*

Type Locality: "Kodiak"; defined as "vicinity of Sitka" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 381, probably in error.

Types: Lectotype in FMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 382, fig. 12 ♂ D&V.

= ‡"caerulescens" Ferris, 1970

J. Res. Lepid. 8(3): 91, 93, fig. bottom ♀ D ("holotype").

Original Combination: *Plebeius (Plebejus) saepiolus saepiolus* ♀ form *caerulescens*

Type Locality: "Crooks Tower Road, Black Hills N. F., 6000' approx., Lawrence Co., South Dakota"

Types: "Holotype" in MGCL.

b. **Plebejus saepiolus insulanus** Blackmore, 1920

Proc. Entomol. Soc. B. C. 14: 8, pl. 1, fig. 7 ♂ V (lectotype).

Original Combination: [*Plebeius saepiolus* race] *insulanus*

Type Locality: "Vancouver Island"; defined as "Victoria, B. C." by Blackmore (1923), Can. Entomol. 55(4): 99. [British Columbia]

Types: Lectotype in CNC, designated by Blackmore (1923), *ibid.* (as "holotype"); figured by Kondla and C. Guppy (2002), Tax. Rep. Int. Lepid. Surv. 3(6): figs. 3 ♂ D, 4 ♂ V: paralectotypes figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 65, figs. 30 ♂ D, 31 ♂ V.

c. **Plebejus saepiolus littoralis** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butterflies (14): 178, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V.

Original Combination: *Plebejus saepiolus littoralis*

Type Locality: "California: Del Norte County; sand dunes at west end of Kellog Road, north end of Lake Earl, 2 road miles west of Fort Dick, elevation 15"

Types: Holotype in LACM.

d. *Plebejus saepiolus saepiolus* (Boisduval, 1852)

Annls. Soc. Entomol. Fr (2)10(2): 296, no. 32; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 237, figs. 1941 ♂ D&V, 942 ♀ D&V.

Original Combination: *Lycaena saepiolus*

Type Locality: "les montagnes"; California implied from the title of the paper; lectotype from "Bear Valley, near Olema, Marin County, California."

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts: 14, figs. 60 ♂ D, 61 ♂ V.

e. *Plebejus saepiolus rufescens* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 48; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 239, figs. 2067 ♂ D&V, 2068 ♀ D&V.

Original Combination: *Lycaena rufescens*

Type Locality: "les plaines de l'interieur"; defined as "Gold Lake, Sierra County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 28.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 28, figs. 201 ♂ D, 202 ♂ V.

f. *Plebejus saepiolus aehaja* (Behr, 1867)

Proc. Calif. Acad. Sci. [1]3(18): 280-281, no. 11.

Original Combination: *L[ycæna]. Aehaja*

Type Locality: "California" implied from the title of the paper, "associated with *L. Daedalus*...in the Alpine regions around the head waters of the Tuolumne River" from the description; neotype from "Tioga Pass, Mono County, California."

Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 103, figs. 67 ♀ D, 68 ♀ V.

g. *Plebejus saepiolus albomontanus* Austin & J. Emmel, 1998

Syst. W. N. Am. Butterflies (42): 510-511, figs. 43 ♂ D, 44 ♂ V (holotype); 45 ♀ D, 46 ♀ V.

Original Combination: *Plebejus saepiolus albomontanus*

Type Locality: "California: Mono County; White Mountains, slope 0.9 air miles east of Barcroft laboratory, south of McAfee meadows, 3627-3658 m, T4S R34E (unsectioned) on USGS Mt. Barcroft, Calif.-Nev. 15' quadrangle"

Types: Holotype in LACM.

h. *Plebejus saepiolus aureolus* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butterflies (14): 176-177, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V.

Original Combination: *Plebejus saepiolus aureolus*

Type Locality: "California: Los Angeles County; wet meadow 0.1 air mile WSW of Big Pines Ranger Station, Big Pines, San Gabriel Mountains"

Types: Holotype in LACM.

- i. **Plebejus saepiolus hilda** (J. Grinnell & F. Grinnell, 1907)

J. N. Y. Entomol. Soc. 15(1): 46-47.

Original Combination: *Cupido hilda*

Type Locality: "upper cienega at the head of the South Fork of the Santa Ana, at an elevation of about 8,500 feet" [San Bernardino Mountains, San Bernardino County, California]

Types: Holotype in AMNH; paratypes figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 65, figs. 32 ♂ D, 33 ♀ D.

= ‡"garthi" Gunder, 1928

Can. Entomol. 60(7): 168, pl. B, fig. 21 ♀ V ("holotype").

Original Combination: *Plebeius saepiolus* race *hilda* tr. f. *garthi*

Type Locality: "Tahquitz Valley, Riv. Co., Calif." [Riverside County, California]

Types: "Holotype" in AMNH.

= ‡"boharti" Gunder, 1932

Pan-Pac. Entomol. 8(3): 127.

Original Combination: *Plebeius saepiolus* tr. f. *boharti*

Type Locality: "Yosemite Natl. Park, California"

Types: Holotype in AMNH.

- j. **Plebejus saepiolus maculosus** Austin, 1998

Syst. W. N. Am. Butterflies (71): 820, figs. 1 third row left ♂ D, 2 third row left ♂ V (holotype), 1 third row, 2nd from left ♂ D, 2 third row, 2nd from left ♂ V, 1 third row, two ♀♀ on right D, 2 third row, two ♀♀ on right V.

Original Combination: *Plebejus saepiolus maculosus*

Type Locality: "Nevada: White Pine County; Snake Range, Snake Creek (now in Great Basin National Park), 2300 m, T12N R69E S10 on USGS Garrison, Nev.-Utah 15' quadrangle"

Types: Holotype in MGCL.

- k. **Plebejus saepiolus gertschi** dos Passos, 1938

Can. Entomol. 70(3): 46, pl. 2, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.

Original Combination: *Plebeius saepiolus gertschi*

Type Locality: "Cedar Breaks, near Cedar City, Utah" [Iron County]

Types: Holotype in AMNH.

- l. **Plebejus saepiolus whitmeri** F. Brown, 1951

Ann. Entomol. Soc. Am. 44(2): 286-287.

Original Combination: *Plebeius saepiolus whitmeri*

Type Locality: "Rampart Range Road, near Woodland Park, Teller Co., Colorado. 9500 feet"

Types: Holotype in AMNH.

= ‡"leussleri" Gunder, 1927

Can. Entomol. 59(12): 282, no. 3, pl. A, fig. 3 ♀ V ("holotype").

Original Combination: *Plebeius saepiolus* tr. f. *leussleri*

Type Locality: "Cassell's, Park Co., Neb., Alt. 8500"; corrected to "Cassells, Park Co.,

Colorado" by dos Passos (1938), Can. Entomol. 70(3): 46.

Types: "Holotype" in OSU.

Subgenus **Plebulina** Nabokov, 1944

Psyche 51(3/4): 104. Type-species: *Lycaena emigdionis* F. Grinnell, 1905, Entomol. News 16(4): 115-116, by original designation. Bálint and K. Johnson (1997), Neue Entomol. Nachr. 40: 9, considered this taxon a synonym of *Plebejus*.

- 559. *Plebejus emigdionis*** (F. Grinnell, 1905)
Entomol. News 16(4): 115-116.
Original Combination: *Lycaena emigdionis*
Type Locality: "San Emigdio Canon, Kern Co., Calif."
[California]
Types: Holotype in AMNH.
= *melimona* (W. G. Wright, 1905)
Butterflies W. Coast: 63, no. 382; 226, no. 382, pl. 29, figs. 382 ♀ D, 382b ♀ D (lectotype), 382c ♀ V, 382cc ♂ V.
Original Combination: [*Lycaena*] *Melimona*; *Lycaena Melimona* n. v.
Type Locality: "Southern California" "San Bernardino Mts." [Riverside-San Bernardino counties]
Types: Lectotype in CAS (#4318), designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 36.

Subgenus **Icaricia** Nabokov, 1945

Psyche 51(3/4): 104. Type-species: *Lycaena icarioides* Boisduval, 1852, Annls. Soc. Entomol. Fr. (2)10(2): 297, no. 33, by original designation. Bálint and K. Johnson (1997), Neue Entomol. Nachr. 40: 7, considered *Icaricia* to be a synonym of *Aricia* [Reichenbach], 1817, Jena. Allgem. Lit.-Zeit. 14(1): 280.

- 560. *Plebejus icarioides*** (Boisduval, 1852)
a. *Plebejus icarioides evius* (Boisduval, 1869)
Annls. Soc. Entomol. Belg. 12: 49, no. 30; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 239, figs. 2072 ♂ D&V, 2073 ♀ D&V.
Original Combination: *Lycaena Evius*
Type Locality: "Du sud de la Californie"; defined as "La Crescenta, Los Angeles County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 29.
Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 29, figs. 213 ♂ D, 214 ♂ V.
b. *Plebejus icarioides santana* (J. Emmel, T. Emmel & Mattoon, 1998)
Syst. W. N. Am. Butterflies (14): 186-187, figs. 53 ♂ D, 54 ♂ V, 55 ♀ V, 56 ♀ V.
Original Combination: *Icaricia icarioides santana*
Type Locality: "California: Orange County; Yaeger Mesa, 2,900-3,100' elevation, above Trabuco Canyon; northeast one-fourth of S.3, T6S., R6W."
Types: Holotype in LACM.
c. *Plebejus icarioides moroensis* Sternitzky, 1930
Pan-Pac. Entomol. 7(2): 93-94.
Original Combination: *Plebeius icarioides moroensis*

Type Locality: "Moro Beach, San Luis Obispo County, California"

Types: Holotype (#2982) in CAS.

- d. **Plebejus icarioides atascadero** (J. Emmel, T. Emmel & Mattoon, 1998)

Syst. W. N. Am. Butterflies (14): 189, figs. 61 ♂ D, 62 ♂ V (holotype); 63 ♀ D, 64 ♀ V.

Original Combination: *Icaricia icarioides atascadero*

Type Locality: "California: San Luis Obispo County; Atascadero"

Types: Holotype in LACM.

- e. **Plebejus icarioides pardalis** (Behr, 1867)

Proc. Calif. Acad. Sci. [1]3(18): 279-280, no. 1.

Original Combination: *Lycaena Pardalis*

Type Locality: "California" implied from the title of the paper, "in the Contra Costa Coast Range, in the vicinity of San Antonio" from the description; neotype from "Lake Chabot, Alameda County, California."

Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 102, figs. 55 ♂ D, 56 ♂ V.

= *erymus* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 48, no. 27; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 239, figs. 2069 ♂ D&V, 2070 ♀ D&V.

Original Combination: *Lycaena Erymus*

Type Locality: "Des frontièrs de l'Oregon" in error; defined as "Lake Chabot, Alameda County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 28.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 28, figs. 207 ♂ D, 208 ♂ V.

= *mintha* (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(2): 189, 194, no. 9.

Original Combination: *Lycaena Mintha*

Type Locality: "Nevada"; corrected to "Marin County, California" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 388.

Types: Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 389-390, fig. 14 ♂ D&V.

= ‡"windi" Gunder, 1933

Can. Entomol. 65(8): 173.

Original Combination: *Plebeius maricopa* tr. f. *windi*

Type Locality: "Berkeley, Calif." [Alameda County, California]

Types: "Holotype" in AMNH.

- f. **Plebejus icarioides missionensis** Hovanitz, 1937
Pan-Pac. Entomol. 13(4): 187-188.

Original Combination: *Plebeius icarioides missionensis*

Type Locality: "Twin Peaks, San Francisco, Calif. elevation 700 ft." [San Francisco County, California]

Types: Holotype (#4526) in CAS.

- g. **Plebejus icarioides pheres** (Boisduval, 1852)

†

Annls. Soc. Entomol. Fr. (2)10(2): 297, no. 34; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 237, figs. 1944 ♂ D&V, 1945 ♀ D&V.

Original Combination: *Lycaena pheres*

Type Locality: "Environs de San Francisco"; defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 15.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 15, figs. 69 ♂ D, 70 ♂ V.

h. *Plebejus icarioides parapheres* (J. Emmel, T. Emmel & Mattoon, 1998)

Syst. W. N. Am. Butterflies (14): 187-188, figs. 57 ♂ D, 58 ♂ V (holotype); 59 ♀ D, 60 ♀ V.

Original Combination: *Icaricia icarioides parapheres*

Type Locality: "California: Marin County; Pt. Reyes Dunes, 25' +/- elevation"

Types: Holotype in LACM.

i. *Plebejus icarioides fenderi* Macy, 1931

Entomol. News 42(1): 1-2, pl. 1 ♀ D, ♀ V, ♂ D.

Original Combination: *Plebeius maricopa fenderi*

Type Locality: "six miles S.E. of McMinneville [sic!], Oregon" [McMinnville, Yamhill County]

Types: Holotype supposedly in Macy collection but not found in OSAC.

j. *Plebejus icarioides blackmorei* W. Barnes & McDunnough, 1919

Can. Entomol. 51(4): 92-93.

Original Combination: *Plebeius icarioides blackmorei*

Type Locality: "Goldstream, Vanc. Is., B. C." [Vancouver Island, British Columbia]

Types: Holotype in USNM; paratypes figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 65, figs. 25 ♂ D, 26 ♀ D, 27 ♂ V.

k. *Plebejus icarioides montis* Blackmore, 1923

Can. Entomol. 55(4): 99-100.

Original Combination: *Plebeius icarioides montis*

Type Locality: "Mt. McLean, near Lillooet, B. C." [British Columbia]

Types: Holotype in CNC.

l. *Plebejus icarioides helios* (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 205, 208-209, no. 6.

Original Combination: *Lycaena Helios*

Type Locality: "California"; neotype from "Fawn Lodge, Cal., Trinity Co."

Types: Neotype in CMNH, designated by Downey (1970), *in*: F. Brown, Trans. Am. Entomol. Soc. 96(3): 392-393, fig. 15 ♂ D&V.

= ‡"spiniaculata" Gunder, 1926

Entomol. News 37(1): 8, no. 12, pl. 1, fig. 12 ♂ V ("holotype").

Original Combination: *Plebeius icarioides* ab. ♂ *spiniaculata*

Type Locality: "Delta, Trinity County, California"

Types: "Holotype" in AMNH.

m. *Plebejus icarioides icarioides* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 297, no. 33; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 237, fig. 1943 ♂ D&V.

Original Combination: *Lycaena icarioides*

Type Locality: "les montagnes"; redefined as "les montagnes peu élevées" by Boisduval (1868), Annls. Soc. Entomol. Belg. 12: 17, no. 34; defined as "2000-4000 feet El Dorado and Nevada counties, California" by Hovanitz (1937), Pan-Pac. Entomol. 13(4): 185; subsequently defined as "Hwy. 70 at Soda Creek, East Branch North Fork Feather River Canyon, 2500' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 14.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 15, figs. 66 ♂ D, 67 ♂ V.

= *maricopa* (Reakirt, 1866)

Proc. Acad. Nat. Sci. Philad. 18(3): 245-246, no. 19.

Original Combination: *Lycaena maricopa*

Type Locality: "California"

Types: Syntype(s) in FMNH.

= *daedalus* (Behr, 1867)

Proc. Calif. Acad. Sci. [1]3(18): 280, no. 9.

Original Combination: *L[ycæna]. Daedalus*

Type Locality: "California" implied from the title of the paper, "the Alpine regions around the head waters of the Tuolumne River" from the description; neotype from "Vogelsang Pass, Yosemite National Park, south of Tuolumne Meadows, Tuolumne-Mariposa County line, California."

Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in LACM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 104, figs. 70 ♀ D, 71 ♀ V.

= *phileros* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 50, no. 32; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 239, figs. 2076 ♂ D&V, 2077 ♀ D&V.

Original Combination: *Lycae Phileros*

Type Locality: "Des montagnes de l'Est"; defined as "slope south above Donner Pass, Placer County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 30.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 30, figs. 219 ♂ D, 220 ♂ V.

n. *Plebejus icarioides eosierra* (J. Emmel, T. Emmel & Mattoon, 1998)

Syst. W. N. Am. Butterflies (14): 183-184, figs. 45 ♂ D, 46 ♂ V (holotype); 47 ♀ D, 48 ♀ V.

Original Combination: *Icaricia icarioides eosierra*

Type Locality: "California: Inyo County; Falls Creek, 5200' elevation, 3 miles south and 3 miles west of Olancha, east slope Sierra Nevada"

Types: Holotype in LACM.

o. *Plebejus icarioides albihalos* (J. Emmel, T. Emmel & Mattoon, 1998)

Syst. W. N. Am. Butterflies (14): 182-183, figs. 41 ♂ D, 42 ♂ V (holotype); 43 ♀ D, 44 ♀ V.

Original Combination: *Icaricia icarioides albihalos*

Type Locality: "California: Mono County; White Mountains; along White Mountain Road 0.7 road miles northwest of turnoff to Crooked Creek, east of Campito Mountain, at 10,560" elevation"

Types: Holotype in LACM.

- p. *Plebejus icarioides inyo*** (J. Emmel, T. Emmel & Mattoon, 1998)

Syst. W. N. Am. Butterflies (14): 181-182, figs. 37 ♂ D, 38 ♂ V (holotype); 39 ♀ D, 40 ♀ V.

Original Combination: *Icaricia icarioides inyo*

Type Locality: "California: Inyo County; Inyo Mountains; Side Hill Spring, 9,100'-9,200' elevation, northwest one-fourth of S.22, T.11S., R.36E."

Types: Holotype in LACM.

- q. *Plebejus icarioides argusmontana*** (J. Emmel, T. Emmel & Mattoon, 1998)

Syst. W. N. Am. Butterflies (14): 179, figs. 29 ♂ D, 30 ♂ V (holotype); 31 ♀ D, 32 ♀ V.

Original Combination: *Icaricia icarioides argusmontana*

Type Locality: "California: Inyo County; Mountain Springs Canyon, 5500' elevation, Argus Mountains"

Types: Holotype in LACM.

- r. *Plebejus icarioides panamintina*** (J. Emmel, T. Emmel & Mattoon, 1998)

Syst. W. N. Am. Butterflies (14): 180-181, figs. 33 ♂ D, 34 ♂ V (holotype); 35 ♀ D, 36 ♀ V.

Original Combination: *Icaricia icarioides panamintina*

Type Locality: "California: Inyo County; Panamint Range; Telescope Peak Trail, between Mahogany Flats and Arcane Meadows, 8400-9500' elevation; S2 and S11, T20S, R45E"

Types: Holotype in LACM.

- s. *Plebejus icarioides austinorum*** (J. Emmel, T. Emmel & Mattoon, 1998)

Syst. W. N. Am. Butterflies (14): 184-185, figs. 49 ♂ D, 50 ♂ V (holotype); 51 ♀ V, 52 ♀ V.

Original Combination: *Icaricia icarioides austinorum*

Type Locality: "Nevada: Clark County; Spring Range, Kyle Canyon Ski area"

Types: Holotype in MGCL.

- t. *Plebejus icarioides fulla*** (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(2): 189, 194-195, no. 10.

Original Combination: *Lycaena Fulla*

Type Locality: "California"; neotype from "Sonora Pass, elev. 9700 ft., Mono Co., Calif." [California]

Types: Neotype in CMNH, designated by Downey (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(3): 386-387, fig. 13 ♂ D&V.

= *ardea* (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 205, 209-210, no. 8.

Original Combination: *Lycaena Ardea*

Type Locality: "Nevada, vic. Virginia City" [Storey County]

Types: Holotype in AMNH, figured by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): fig. 16 ♂ D&V.

- u. **Plebejus icarioides pembina** (W. H. Edwards, 1862)
Proc. Acad. Nat. Sci. Philad. 14(5): 221, 224, no. 7.
Original Combination: *Lycaena Pembina*
Type Locality: "Lake Winnipeg"; defined as "Great Slave Lake" by W. H. Edwards (1877), Trans. Am. Entomol. Soc. 6(1): 45; neotype from "Lost Horse Road Bitter Root Mtns., Ravalli Co., Mont." [Montana]
Types: Neotype in CMNH, designated by Downey (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(3): 401-402, fig. 19 ♂ D&V.
- v. **Plebejus icarioides lycea** (W. H. Edwards, 1864)
Proc. Entomol. Soc. Philad. 2(4): 501, 507, no. 9.
Original Combination: *Lycaena Lycea*
Type Locality: "Rocky Mountains"; neotype from "Gregory Canyon, Boulder, Colo." [Boulder County, Colorado]
Types: Neotype in CMNH, designated by Downey (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(3): 396-397, fig. 17 ♂ D&V.
- w. **Plebejus icarioides sacre** R. Holland, 2011
Lepid. North America 10: 8, 9, figs. 2a ♂ D, 2b ♂ V (holotype), 3a ♀ D, 3b ♀ V.
Original Combination: *Plebejus icarioides sacre*
Type Locality: "TL-Capitan Mountains, Lincoln County, NM: Encinosa Can., NW slope, W of Capitan Gap, 1 mi. W of Sawmill Tank, 8,400'" [New Mexico]
Types: Holotype in CSUC.
- x. **Plebejus icarioides nigrafem** R. Holland, 2011
Lepid. North America 10: 8, 10, figs. 4a ♂ D, 4b ♂ D, 5a ♀ D, 5b ♀ V (holotype).
Original Combination: *Plebejus icarioides nigrafem*
Type Locality: "Cherry Creek Canyon, southeast slope of Johnson Mesa, 8,000'" [New Mexico]
Types: Holotype in CSUC.
- y. **Plebejus icarioides buchholzi** dos Passos, 1938
Can. Entomol. 70(3): 47, pl. 2, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.
Original Combination: *Plebeius icarioides buchholzi*
Type Locality: "White Mountains, Arizona (8500)"
Types: Holotype in AMNH.
- 561. **Plebejus shasta** (W. H. Edwards, 1862)
 - a. **Plebejus shasta shasta** (W. H. Edwards, 1862)
Proc. Acad. Nat. Sci. Philad. 14(5): 221, 224-225, no. 8.
Original Combination: *Lycaena Shasta*
Type Locality: "California"; neotype from "Sheppard Pass Trail West/head of Tyndall Ck. 11-12,200', Tulare Co., Calif."
Types: Neotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 404, fig. 20 ♂ D&V.
J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 27, discussed the neotype designated by F. Brown (1970). They considered it invalid because Behr did not have access to the area from where the neotype was taken, and W. H. Edwards' description fits the syntypes of *nivium* and *zelmira* more closely than that of the neotype. Austin *et al.* (1998), Syst. W. N. Am. Butterflies (7): 115-116, designated a "new" neotype. This is the

lectotype of *zelmira* (see below). This issue needs further examination.

- = *zelmira* (C. Felder & R. Felder, 1865)
Reise Novara (2): 282, no. 358, pl. 35, figs. 17 ♂ D, 18 ♂ V, 19 ♀ D.

Original Combination: *Lycaena Zelmira*

Type Locality: "California, Utah"; defined as "slope south above Donner Pass, 7,500' elevation, Placer County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (5): 90.

Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (5): 90, figs. 28 ♂ D, 29 ♂ V. This is the "neotype" of *shasta*, thereby making *zelmira* a junior objective synonym of *shasta* (see above).

- = *nivium* (Boisduval, 1869)
Annls. Soc. Entomol. Belg. 12: 47, no. 25; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 238, figs. 1963 ♂ D&V, 1964 ♀ D&V.

Original Combination: *Lycaena nivium*

Type Locality: "l'Orégon"; defined as "slope south above Donner Pass, 7,500' elevation, Placer County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 27.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 27, figs. 195 ♂ D, 196 ♂ V.

- = *comstocki* C. Fox, 1924
Entomol. News 35(4): 140-141.

Original Combination: *Plebejus shasta comstocki* new variety

Type Locality: "Glacier Point, Yosemite National Park, California" [Mariposa County]

Types: Holotype in AMNH; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 54, figs. 27 ♂ D.

- b. ***Plebejus shasta calchas*** (Behr, 1867)
Proc. Calif. Acad. Sci. [1]3(18): 281-282, no. 14.
Original Combination: *L[ycæna]. Calchas*
Type Locality: "California" implied from the title of the paper, "Mono Lake" from the description; neotype from "Mono Lake, Mono County, California."
Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in LACM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 103, figs. 58 ♂ D, 59 ♂ V.
- c. ***Plebejus shasta pallidissima*** (Austin, 1998)
Syst. W. N. Am. Butterflies (45): 559, figs. 113 ♂ D, 114 ♂ V (holotype); 115 ♀ D, 116 ♀ V.
Original Combination: *Icaricia shasta pallidissima*
Type Locality: "Nevada: White Pine County; Snake Range, vicinity of Stella Lake, 3170 m, T13N R68E (unsectioned) on USGS Sacramento Pass, Nev. 15' quadrangle"
Types: Holotype in MGCL.
- d. ***Plebejus shasta minnehaha*** (Scudder, 1874)
Proc. Boston Soc. Nat. Hist. 17(1): 88-89, no. 12.
Original Combination: *Agriades minnehaha*

Type Locality: "Heart River Crossing, Dakotah Terr., about fifty miles west of the Missouri River"; suggested to be "most probably in Grant Co., North Dakota where the present State Road 49 (between Glen Ullin and Elgin) crosses the Heart River...elevation...1800'" by Ferris (1970), Entomol. News 81(8): 204.

Types: Syntypes (#15977) in MCZ; one figured by Ferris (1976), Bull. Allyn Mus. (36): fig. 16 ♂ D&V.

= *browni* Ferris, 1970

Entomol. News 81(8): 204-207, figs. 1, middle row ♂ genitalia, 2, top row left ♂ D (holotype), right ♀ D, bottom row left ♂ V, right ♀ V.

Original Combination: *Plebejus shasta browni*

Type Locality: "Powder River Pass, 9700', Johnson Co., Wyoming"

Types: Holotype in LACM.

e. ***Plebejus shasta charlestonensis*** Austin, 1980

J. Lepid. Soc. 34(1): 20-22, fig. 1 top ♂ D&V (holotype), bottom ♀ D&V.

Original Combination: *Plebejus shasta charlestonensis*

Type Locality: "Lee's (= Lee) Canyon, (Spring Range), Clark Co.(unty), Nev.(ada), 8500'"; also stated as "NEVADA: Clark Co., Spring Range, Lee Canyon, 8250'-8800'. This is the open area between Lee Canyon Guard Station and the ski tow as shown on USGS Charleston Peak, Nevada, quadrangle, 15 minute series (R 56E, T 18S, S 10 and S 15) 250-8800', Clark Co., Nevada."

Types: Holotype in LACM.

f. ***Plebejus shasta pitkinensis*** Ferris, 1976

Bull. Allyn Mus. (36): 2-3, figs. 19 ♂ D&V (holotype), 20 ♀ D&V.

Original Combination: *Plebejus shasta pitkinensis*

Type Locality: "Snowmass Lake, 12,000', Pitkin Co., Colorado"

Types: Holotype in MGCL.

= *platazul* Scott, 2006

Papilio (n.s.) 12: 50, pl. 4, 2nd row left ♂ D&V (holotype).

Original Combination: *Plebejus shasta platazul*

Type Locality: "Hermit Pass, ~12,000', Sangre de Cristo Mts., Custer Co. Colo." [Colorado]

Types: Holotype in BMNH.

562. ***Plebejus acmon*** (Westwood, [1851])

In: Gen. diurn. Lepid. 2: pl. 76, fig. 2 ♂ D; (53): 494, no. 139 (1852).

Original Combination: *Lycaena Acmon*

Type Locality: "California"; suggested to be "San Francisco, San Francisco County, California" by Opler (2003), Tax. Rep. Int. Lepid. Surv. 4(1): 3.

Types: Lectotype (#235605) in BMNH, designated by Opler (2003), Tax. Rep. Int. Lepid. Surv. 4(1): 2, figs.1 ♂ D, 2 ♂ V, as "holotype."

Opler (2003), Tax. Rep. Int. Lepid. Surv. 4(1): 1-6, determined that *P. acmon* is monotypic. Taxa formerly treated as subspecies of *P. acmon* are tentatively associated with *P. lupini*.

= *antaegon* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 295, no. 30; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 236, fig. 1936 ♂ D&V, 1937 ♀ D&V.

Original Combination: *Lycaena antaegon*

Type Locality: "Californie" implied from the title of the paper; defined as "environs de San-Francisco" by Boisduval (1868), Annls. Soc. Entomol. Belg. 12: 16, no. 31; further defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 13.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 13, figs. 54 ♂ D, 55 ♂ V.

= *cottlei* (F. Grinnell, 1916)

J. Entomol. & Zool. 8(2): 83, pl., upper left ♀ D, upper right ♂ D, center left ♀ V, center right ♂ V, bottom left ♀ V, bottom right ♂ V.

Original Combination: *Rusticus acmon cottlei*

Type Locality: "Baker's Beach, north of the Cliff House, within the city and county of San Francisco" [California]

Types: Holotype in AMNH.

= ‡"labecula" F. Watson & W. Comstock, 1920
Bull. Am. Mus. Nat. Hist. 42(10): 457.

Original Combination: *Plebejus*

acmon ab. *labecula*

Type Locality: "San Francisco district, California" [San Francisco County]

Types: "Holotype" in AMNH.

= ‡"kelseyi" W. S. Wright, 1930
Trans. San Diego Soc. Nat. Hist. 6(3): 29-30, no. 111.

Original Combination: *Plebeius acmon* ab. *kelseyi*

Type Locality: "San Diego County, California" implied from the title of the paper. [San Diego County]

Types: "Holotype" in SDMC.

563. *Plebejus lupini* (Boisduval, 1869)

The arrangement of taxa under this species should be considered tentative; some of these may represent species-level taxa.

a. *Plebejus lupini texanus* (Goodpasture, 1973)

Pan-Pac. Entomol. 49(2): 149-151, figs. 2 ♂ uncus, 5 ♂ uncus, 8 ♀ sterigma, map 1, 12 ♂ D (holotype), 15 ♀ D, 16 ♂ V, 19b ♀ sterigma.

Original Combination: *Icaricia acmon texanus*

Type Locality: "1 mi. S Hillside, Yavapai Co., Arizona"

Types: Holotype in LACM.

b. *Plebejus lupini lutzi* dos Passos, 1938

Can. Entomol. 70(3): 48, pl. 2, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.

Original Combination: *Plebeius acmon lutzi*

Type Locality: "Snowslide Canyon, eight miles from Montpelier, Idaho" [Bear Lake County]

Types: Holotype in AMNH.

= ‡"pseudolupini" Ferris, 1970

J. Res. Lepid. 8(3): 91, figs. 1, top left ♂ D, top right ♂ V ("holotype").

Original Combination: *Plebejus (Icaricia) acmon lutzii* form *pseudolupini*

Type Locality: "near Eagle Rock, 8200' approx., Sherman Range, Medicine Bow N. F., Albany Co., Wyoming"

Types: "Holotype" in Ferris collection, possibly in MGCL.

c. *Plebejus lupini spangelatus* Burdick, 1942

Can. Entomol. 74(10): 195-196.

Original Combination: *Plebeius lupini spangelatus*

Type Locality: "Gray Wolf Range, Olympic Mountains, Clallam Co., Washington"

Types: Holotype in CNC.

d. *Plebejus lupini lupini* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 46-47, no. 23; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 238, figs. 1961 ♂ D&V, 1962 ♀ D&V.

Original Combination: *Lycaena lupini*

Type Locality: "le sud de la Californie"; defined as "Gold Lake, Sierra County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 27.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 27, figs. 192 ♂ D, 193 ♂ V.

= ‡"immaculata" F. Chermock, 1929

Bull. Brooklyn Entomol. Soc. 24(1): 20.

Original Combination: *Plebeius*

lupini ab. *immaculata*

Type Locality: "Gold Lake district, Sierra Co., Calif." [California]

Types: "Holotype" in MGCL.

‡"alupini" Scott, 2008

Papilio (n.s.) 18: 57-63.

Original Combination: *Plebejus alupini lutzii*

Proposed as a replacement name for *Lycaena lupini* Boisduval, 1869, because the author thought that name inappropriate.

e. *Plebejus lupini alpicola* (J. Emmel, T. Emmel & Mattoon, 1998)

Syst. W. N. Am. Butterflies (14): 192-193, figs. 73 ♂ D, 74 ♂ D (holotype); 75 ♀ D, 76 ♀ V.

Original Combination: *Icaricia lupini alpicola*

Type Locality: "California: Mono County; Barney Lake, elevation ca. 10,240'-10,400'"

Types: Holotype in LACM.

f. *Plebejus lupini dedeckera* (J. Emmel, T. Emmel & Mattoon, 1998)

Syst. W. N. Am. Butterflies (14): 190-191, figs. 65 ♂ D, 66 ♂ V (holotype); 67 ♀ D, 68 ♀ V.

Original Combination: *Icaricia acmon dedeckera*

Type Locality: "California: Mono County; west slope White Mountains; north-facing slope of Coldwater Canyon, 5,200-5,600' elevation, S.36, T.5S., R.33E."

Types: Holotype in LACM.

g. *Plebejus lupini argentata* (J. Emmel, T. Emmel & Mattoon, 1998)

Syst. W. N. Am. Butterflies (14): 191-192, figs. 69 ♂ D, 70 ♂ V (holotype), 71 ♀ D, 72 ♀ V.

Original Combination: *Icaricia lupini argentata*

Type Locality: "California: Inyo County; east end of Nelson Range; slope 0.2 air mile W of junction of Saline Valley Road and Hunter Mountain Road, 5950'-6100' elevation"

Types: Holotype in LACM.

h. *Plebejus lupini goodpasturei* (Austin, 1998)

Syst. W. N. Am. Butterflies (45): 560, figs. 117 ♂ D, 118 ♂ V (holotype); 119 ♀ D, 120 ♀ V.

Original Combination: *Icaricia lupini goodpasturei*

Type Locality: "Nevada: White Pine County; Schell Creek Range, Timber Creek, 5.0 road miles east of Nevada route 486, 2740 m, T18N R65E S25 on USGS Schell Peaks, Nev. 15' quadrangle"

Types: Holotype in MGCL.

i. *Plebejus lupini chlorina* (Skinner, 1902)

Entomol. News 13(1): 15.

Original Combination: *Lycaena chlorina*

Type Locality: "Tehachapi, Cala." [Kern County, California]

Types: Holotype (#7048) in CMNH; figured by Howe (1975), Butterflies N. Am.: pl. 58, fig. 3 ♂ D&V; paratypes figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 66, figs. 29 ♂ D, 30 ♀ D.

= *carolyna* J. A. Comstock, 1922

Bull. South. Calif. Acad. Sci. 21(2): 46, pl. 3, figs. 1 ♂ D (holotype), 2 ♂ V; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 55, fig. 16 ♂ D.

Original Combination: *Plebeius carolyna*

Type Locality: "Tehachapi Mts. about five miles from the town of that name. Elevation 5,000 feet" [Kern County, California]

Types: Holotype in LACM

= ‡"transvestitus" Scott, 1981

Papilio (n.s.) 1: 6.

Original Combination: *Plebejus lupini* male form *transvestitus*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

j. *Plebejus lupini monticola* (Clemence, 1909)

Can. Entomol. 41(1): 38-39.

Original Combination: *Rusticus [acmon] monticola* n. subsp.

Type Locality: "vicinity of Pasadena, Calif." implied from the title of paper; syntypes from "Upper Arroyo Seco, L. A. County., Cal." [Los Angeles County, California]

Types: Syntypes in LACM; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 55, figs. 10 ♂ D, 11 ♀ D, 12 ♀ V, and Howe (1975), Butterflies N. Am.: pl. 58, fig. 5 ♂ D&V, 6 ♀ D.

= ‡"pallida" Gunder, 1925

Entomol. News 36(1): 3, no. 3, pl. 1, fig. N ♀ D ("holotype").

Original Combination: *Plebeius monticola* ab. ♀ *pallida*

Type Locality: "Cajon Pass, San Bernardino Mountains, San Bernardino County, California"

- Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 55, fig. 13 ♀ D.
- = ‡"malcolmi" Gunder, 1927
Entomol. News 36(7): 195, no. 2, pl. 5, fig. 2 ♀ D ("holotype").
Original Combination: *Plebeius monticola* ab. ♀ *malcolmi*
Type Locality: "Ridge Route, Los Angeles County, California"
Types: "Holotype" in AMNH.
- = ‡"montanus" Gunder, 1929
Bull. Brooklyn Entomol. Soc. 24(5): 326, pl. 31, fig. 3a ♂ V ("holotype").
Original Combination: *Plebeius monticola* tr. f. *montanus*
Type Locality: "Cajon Pass, San Bernardino Co., Calif." [California]
Types: "Holotype" in AMNH.
- = ‡"angelus" Gunder, 1929
Bull. Brooklyn Entomol. Soc. 24(5): 326, pl. 31, fig. 4a ♀ V ("holotype").
Original Combination: *Plebeius monticola* tr. f. *angelus*
Type Locality: "Los Angeles, Calif." [Los Angeles County, California]
Types: "Holotype" in AMNH or LACM.
564. **Plebejus cotundra** Scott & M. Fisher, 2006
Papilio (n.s.) 12: 50-51, pl. 4, 2nd row left center ♂ D&V (holotype).
Original Combination: *Plebejus lupini* (*P. spangelatus?*) *cotundra*
Type Locality: "Hall Valley, 12,000', Park Co. Colo." [Colorado]
Types: Holotype in CSUC.
565. **Plebejus neurona** (Skinner, 1902)
Entomol. News 13(1): 15.
Original Combination: *Lycaena neurona*
Type Locality: "Doble, San Bernardino County, Cal." [California]
Types: Syntypes (#7047) in CMNH; one figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 66, fig. 34 ♂ D.

Subgenus **Albulina** Tutt, 1909

Nat. Hist. Brit. Butterflies 3(6): 154. Type-species: *Papilio pheretes* Hübner, [1806], Samml. europ. Schmett. 1: 45 (= *Papilio atys* Hübner, [1804], Samml. europ. Schmett. 1: pl. 97, figs. 495, 496: a homonym of *Papilio orbitulus* de Prunner, 1798, Lepid. Pedemont.: 75, no. 158), by original designation.

- = *Vacciniina* Tutt, 1909
Nat. Hist. Brit. Butterflies 3(6): 154. Type-species: *Papilio optilete* Knoch, 1781, Beitr. Insektengesch. 1: 76-77, no.3, pl. 5, figs. 5, 6, by original designation. Bálint and K. Johnson (1997), Neue Entomol. Nachr. 40: 7, considered this taxon to be a synonym of *Albulina*.

- *566. **Plebejus optilete** (Knoch, 1781)
Beitr. Insektengesch. 1: 76-77, no. 3, pl. 5, figs. 5 ♀ D, 6 ♀ V.

Original Combination: *Papilio Plebejus Ruralis Optilete*

Type Locality: "hiesiger Gegend....Braunschweig"
[Brunswick, Germany]

Types: Type(s) probably lost.

a. Plebejus optilete yukona (W. Holland, 1900)

Entomol. News 11(4): 416-417; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 67, figs. 7 ♂ D, 8 ♀ D, 9 ♂ V.

Original Combination: *Lycaena yukona*

Type Locality: "mnts. between Mission and Forty-Mile Creeks, Alaska"

Types: Syntypes in CMNH.

Subgenus **Agriades** Hübner, [1819]

Verz. bekannt. Schmett. (5): 67-68. Type-species: *Papilio glandon* de Prunner, 1798, Lepid.

Pedemont: 76, no. 159, by designation of I.C.Z.N. *Opinion* 173. I.C.Z.N. *Opinion*

270 placed *Agriades* on the *Official List of Generic Names in Zoology* as name no. 685.

= ‡*Latoriana* Tutt, 1909

Nat. Hist. Brit. Butterflies 3(6): 155. Type-species: *Papilio glandon* de Prunner, 1798, Lepid. Pedemont: 76, no. 159, by designation of I.C.Z.N. *Opinion* 173. I.C.Z.N. *Opinion* 270 placed *Latoriana* Tutt, 1909 on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 67. A junior objective synonym of *Agriades*.

***567. Plebejus glandon** (de Prunner, 1798)

Lepid. Pedemont: 76, no.159.

Original

Combination: *P[lebejus]. R[uralis] Pap[ilio]. Glandon*

Type Locality: "In montibus"; "Col du Glandon" suggested from the derivation of the name. [Dauphiné Alps, France]

Types: Type(s) probably lost.

I.C.Z.N. *Opinion* 270 placed this name on the *Official List of Specific Names in Zoology* as name no. 91.

In the last half century the

names *glandon*, *aquilo*, *franklinii* and *rustica* have all been applied at the species-level to some or all populations of this complex in North America (e.g., L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 127, Ferris (1989), Mem. Lepid. Soc. (3): 35, Opler (1992), Field Guide E. Butterflies: 137, (1999), Field Guide W. Butterflies: 246). It is unclear whether or not the name *aquilo* should be applied to the North American fauna. Until a lectotype or neotype for *aquilo* is designated, this issue will remain problematic. Nekrutenko (1974), J. Lepid. Soc. 28(3): 281, fig. 1, showed that there are no consistent genitalic characteristics by which *glandon* and *aquilo* may be separated. Yakovlev and Churkin (2003), Helios 4: 148-152, and Churkin (2005), Helios 5: 3-38, discussed the use of the name *glandon* for all of these populations. Since no thorough analysis of North American populations has yet been presented, the following arrangement is tentative.

a. Plebejus glandon labrador Schmidt, Scott & Kondla, 2006

Papilio (n.s.) 12: 49, pl. 4, 3rd row left center ♂ D&V (holotype).

Original Combination: *Agriades glandon labrador*

Type Locality: "Smokey Mtn., Labrador City, Labrador, Canada" [Newfoundland and Labrador]

- Types:** Holotype in CNC.
- b. **Plebejus glandon franklinii** (J. Curtis, 1835)
In: Ross, Voy. Search Northwest Pass., Appendix: Ixix, no. 15, pl. A, figs. 8 ♂ D, 9 ♂ V.
Original Combination: [*Polyommatus*] *Franklinii*
Type Locality: "Arctic Regions"; determined from itineraries in vol. 1 and a letter from John Ross in vol. 2, Addenda: 732-735, to be the area bounded by 69.30°-70.9° N lat. and 91.52°-93.0°W long., in the vicinity of the isthmus of Boothia Peninsula, named by the expedition. [Kitikmeot-Keewatin regions, Nunavut]
Types: Syntype in USNM.
 = *suttoni* (W. Holland, 1931)
 Butterfly Book (rev. ed.): 269, pl. 68, figs. 7 ♂ D, 8 ♀ (actually ♂) D, 9 ♂ V.
Original Combination: [*Lycaena aquilo*] var. *suttoni*
Type Locality: "Southampton Island in Hudson Bay" [Nunavut]
Types: Syntypes in CMNH.
- c. **Plebejus glandon manitoba** Lamas, 2008
 Zootaxa 1848: 49, no. 9.
Original Combination: *Plebejus glandon manitoba*
 Proposed as a replacement name for *Plebeius aquilo* var. *lacustris* T. Freeman, 1939, preoccupied, with the same data (Code Article 60.3).
 = ‡*lacustris* T. Freeman, 1939
 Can. Entomol. 71(8): 180.
Original Combination: *Plebeius aquilo* var. *lacustris*
Type Locality: "Norway House, Manitoba"
Types: Holotype (#4521) in CNC.
 Preoccupied by *Lycaeides idas lacustris* Beuret, 1938, Entomol. Rundsch. 55(58): 683, now in the genus *Plebejus*.
- d. **Plebejus glandon bryanti** Leussler, 1935
 Bull. Brooklyn Entomol. Soc. 30(2): 58-59, no. 41.
Original Combination: *Plebeius aquilo* race *bryanti*
Type Locality: "Black Mountain, 500 ft. altitude" [30 mi SW Aklavik, Northwest Territories]
Types: Holotype in AMNH.
 = ‡"kohlsaati" Gunder, 1932
 Pan-Pac. Entomol. 8(3): 127.
Original Combination: *Plebeius aquilo* tr. f. *kohlsaati*
Type Locality: "Mt. McKinley National Park, Alaska" [Denali National Park]
Types: "Holotype" in AMNH.
- e. **Plebejus glandon megalo** McDunnough, 1927
 Can. Entomol. 59(7): 161.
Original Combination: [*Plebeius aquilo*] *megalo*
Type Locality: "Mt. McLean, Lillooet, B. C." [British Columbia]
Types: Holotype (#2503) in CNC.
- f. **Plebejus glandon rustica** (W. H. Edwards, 1865)
 Proc. Entomol. Soc. Philad. 4(1): 201, 203-204, no. 7.
Original Combination: *Lycaena Rustica*

- Type Locality:** "Pikes Peak"; defined as "vicinity of Empire, Clear Creek County, Colorado" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 404.
Types: Lectotype in MGCL, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 406, fig. 21 ♂ D&V.
 Species-genus gender conformation is *rusticus*.
- g. *Plebejus glandon punctatus*** (Austin, 1998)
 Syst. W. N. Am. Butterflies (45): 561, figs. 121 ♂ D, 122 ♂ V (holotype); 123 ♀ D, 124 ♀ V.
Original Combination: *Agriades rusticus punctatus*
Type Locality: "Arizona: Apache County; White Mountains, below Greens Peak, Forest Road 117"
Types: Holotype in MGCL.
- h. *Plebejus glandon cassiope*** (J. Emmel & T. Emmel, 1998)
 Syst. W. N. Am. Butterflies (20): 287-289, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Agriades cassiope*
Type Locality: "California, El Dorado County; Sierra Nevada, Lake Tahoe region; slope due south of Dicks Pass, 8,800-9,000' elevation; S.7, T.12 N., R.17 E."
Types: Holotype in LACM.
- i. *Plebejus glandon kelsoni*** (J. Emmel & T. Emmel, 1998)
 Syst. W. N. Am. Butterflies (20): 289-290, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.
Original Combination: *Agriades cassiope kelsoni*
Type Locality: "California, Siskiyou County; Trinity Alps; southeast above Caribou Lake, 7,000-7,100' elevation"
Types: Holotype in LACM.
- 568. *Plebejus podarce*** (C. Felder & R. Felder, 1865)
 This taxon was elevated to the species-level by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 29.
- a. *Plebejus podarce cilla*** (Behr, 1867)
 Proc. Calif. Acad. Sci. [1]3(18): 281, no. 12.
Original Combination: *Lycaena*. *Cilla*
Type Locality: "California" implied from the title of the paper, "an elevation of 11,000 feet and over, on the snowy heights surrounding the headwaters of the Tuolumne River" from the description; neotype from "meadow E. of Tioga Pass, Mono County, California."
Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 103, figs. 64 ♂ D, 65 ♂ V.
- b. *Plebejus podarce podarce*** (C. Felder & R. Felder, 1865)
 Reise Novara (2): 282-283, no. 359, pl. 35, 22 ♂ D, 23 ♂ V.
Original Combination: *Lycaena Podarce*
Type Locality: "California"; defined as "Summit Valley, at S. end of Lake Van Norden, Donner Pass, Placer County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 90.
Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 90, figs. 31 ♂ D, 32 ♂ V.
 = *tehama* (Reakirt, 1866)

Proc. Acad. Nat. Sci. Philad. 18(3): 246, no. 20.

Original Combination: *Lycaena tehama*

Type Locality: "California"

Types: Syntypes in FMNH and (#16011) MCZ; figured by Strecker (1874), *Lepid. Rhop. Het.* (10): pl. 10, fig. 16 ♂ D&V.

= *nestos* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 50, no. 32; figured by Oberthür (1913), *Étud. Lépid. Comp.* 9(1): pl. 239, figs. 2074 ♂ D&V, 2075 ♀ D&V.

Original Combination: *Lycaena Nestos*

Type Locality: "les montagnes voisins de l'Oregon" in error; defined as "Summit Valley, at S. end of Lake Van Norden, Donner Pass, Placer County, California" by J. Emmel *et al.* (1998), *Syst. W. N. Am. Butterflies* (2): 29.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), *Syst. W. N. Am. Butterflies* (2): 30, figs. 216 ♂ D, 217 ♂ V.

c. **Plebejus podarce klamathensis** (J. Emmel & T. Emmel, 1998)

Syst. W. N. Am. Butterflies (20): 291, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.

Original Combination: *Agriades podarce klamathensis*

Type Locality: "California: Humboldt County; Waterdog Lake, North Trinity Mountain"

Types: Holotype in LACM.

Family RIODINIDAE Grote, 1895

Mitt. Roemer Mus. Hildesheim (1): [2], [4] (as "Riodinidae" "Riodininae" "Riodinini"). Type-genus: *Riodina* Westwood, 1851, *in*: *Gen. diurn. Lepid.* 2(47): 430. I.C.Z.N. *Opinion* 1073 placed Riodinidae (with the date as given) on the *Official List of Family-group Names in Zoology* as name no. 484, and placed *Riodina* on the *Official List of Generic Names in Zoology* as name no. 2039.

Subfamily Riodininae Grote, 1895

Tribe Riodinini Grote, 1895 (1827)

Genus *Calephelis* Grote & Robinson, 1869

Trans. Am. Entomol. Soc. 2(3): 310-311. Type-species: *Erycina virginiensis* G. Gray, 1832, *in* Griffith, *Cuvier's Anim. Kingd.* 15(2): pl. 58, figs. 1, 1a (= *Erycinia virginiensis* Guérin-Méneville, [1832], *Icon. Règne Anim. Cuvier* (Ins.) 2(18): pl. 81, figs. 1, 1a; 3: 489 [1844]), by designation of I.C.Z.N. *Opinion* 755; the same *Opinion* placed this name on the *Official List of Generic Names in Zoology* as name no. 1694.

= ‡*Lephelisca* W. Barnes & Lindsey, 1922

Ann. Entomol. Soc. Am. 15(1): 93. Type-species: *Erycinia virginiensis* Guérin-Méneville, [1831], *Icon. Règne Anim. Cuvier* (Ins.) 2(18): pl. 81, figs. 1, 1a; 3: 489 [1844], by original designation. I.C.Z.N. *Opinion* 755 placed this name on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 1774.

569. ***Calephelis borealis*** (Grote & Robinson, 1866)

Ann. N. Y. Lyc. Nat. Hist. 8: 351-352.

Original Combination: *Nymphidia borealis*

Type Locality: "New York State...near Upper Coldenham, Orange Co., N. Y., about nine miles west of Newburgh, on the Hudson"

Types: Location of type(s) not known, possibly in NYSM.
‡"geda" Scudder, 1876
Bull. Buffalo Soc. Nat. Sci. 3: 102.

Original Combination: [*Calephelis borealis*]
(= *Geda*) (Boisduval manuscript)

A manuscript name credited to Boisduval, listed in the synonymy of *borealis* without a description or indication; a *nomen nudum*.

570. *Calephelis muticum* McAlpine, 1937

Bull. Brooklyn Entomol. Soc. 32(2): 43-46, pl. 20, figs. 1 ♂ D, 3 ♂ V (holotype); 2 ♀ D, 4 ♀ V, 5 venation, 6 ♂ genitalia, 7 ♂ genitalia.

Original Combination: *Calephelis muticum*

Type Locality: "Willis, Washtenaw Co., Mich." [Michigan]

Types: Holotype in USNM.

571. *Calephelis virginensis* (Guérin-Méneville, [1832])

Icon. Règne Anim. Cuvier (Ins.) 2(18): pl. 81, figs. 1 ♂ D, 1a ♂ V [1832]; 3: 489 [1844].

Original Combination: *Erycinia Virginensis*

Type Locality: "l'Amerique du Nord"; "Virginia" implied from the formation of the name.

Types: Probably lost; the "type" in the BMNH figured by McAlpine (1971), J. Res. Lepid. 10(1): fig. 7, no. 1 ♂ D&V, is probably not a syntype.

I.C.Z.N. *Opinion 755* placed this name on the *Official List of Specific Names in Zoology* as name no. 2104. Authorship is often credited to G. Gray (1832), in: Griffith, Cuvier's Anim. Kingd. 15(2): pl. 58, figs. 1 ♂ D, 1a ♂ V, which is a subsequently published English edition of Guérin-Méneville [1832].

= ‡*pumila* (Boisduval & Le Conte, [1835])
Hist. Lépid. Amér. sept. (12): pl. 37, figs. 6 ♂ D, 7 ♂ V ; (14): 131.

Original Combination: *Nymphidia Pumila*

Type Locality: "Géorgie et la Floride"

Types: Types were the specimens upon which Émile Blanchard based his illustrations, probably from Boisduval's collection, possibly in USNM or MNHP.

= *louisiana* W. Holland, 1929
Entomol. News 40(1): 20; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 76, figs. 9 ♂ D, 9a ♂ V (holotype).

Original Combination: *Calephelis louisiana*

Type Locality: "Opelousas, Louisiana" [Evangeline Parish]

Types: Holotype in CMNH.

572. *Calephelis nemesis* (W. H. Edwards, 1871)

a. ***Calephelis nemesis australis* (W. H. Edwards, 1877)**
Field & Forest 3(5): 87-88.

Original Combination: *Charis Australis*

Type Locality: "San Antonio" [Bexar County, Texas]

Types: Lectotype in CMNH, designated by McAlpine (1968), in: F. Brown, Trans. Am. Entomol. Soc. 94(2): 130, fig. 6 ♀ D&V.

- = *guadeloupe* (Strecker, [1878])
Lepid. Rhop. Het. (14): 131.
Original Combination: *Charis Guadeloupe*
Type Locality: Not stated; "vicinity of New Braunfels and San Antonio, Southwestern Texas" implied from the introductory text. [Comal and Bexar counties]
Types: Syntypes in FMNH.
- b. ***Calephelis nemesis nemesis*** (W. H. Edwards, 1871)
Trans. Am. Entomol. Soc. 3(2): 205, 212, no. 13.
Original Combination: *Charis Nemesis*
Type Locality: "Arizona"; defined as "vicinity of Tucson, Pima Co., Arizona" by F. Brown (1968), Trans. Am. Entomol. Soc. 94(2): 126-127.
Types: Holotype in CMNH, figured by F. Brown (1968), Trans. Am. Entomol. Soc. 94(2): fig. 5 ♂ D&V.
- c. ***Calephelis nemesis dammersi*** McAlpine, 1971
J. Res. Lepid. 10(1): 31-33, no. 5B, fig. 7, no. 5B ♂ D&V (holotype), ♀ D&V, fig. 17, no. 5B ♂&♀ genitalia.
Original Combination: *Calephelis nemesis dammersi*
Type Locality: "Blythe, Riverside Co., California"
Types: Holotype in LACM.
= *californica* McAlpine, 1971
J. Res. Lepid. 10(1): 34-35, no 5C, fig. 8, no. 5C ♂ D&V (holotype), ♀ D&V, fig. 17, no. 5C ♂&♀ genitalia.
Original Combination: *Calephelis nemesis californica*
Type Locality: "Riverside, Riverside Co., California" inferred from text.
Types: Holotype in LACM.
Pelham (2008), J. Res. Lepid. 40: 272, accorded precedence to *dammersi* over *californica* as first reviser (Code Article 24.2.2).
- 573. ***Calephelis perditalis*** W. Barnes & McDunnough, 1918
a. ***Calephelis perditalis perditalis*** W. Barnes & McDunnough, 1918
Contr. Nat. Hist. Lepid. N. Am. 4(2): 75-76, pl. 12, figs. 5 ♂ D, 6 ♀ V, 7 ♀ D.
Original Combination: *Calephelis perditalis*
Type Locality: "San Benito, Texas" [Cameron County]
Types: Syntypes in USNM; one figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 76, figs. 7, 7a ♂ D&V, and McAlpine (1971), J. Res. Lepid. 10(1): figs. 9 no. 11 ♂ D&V, ♀ D&V.
- 574. ***Calephelis wrighti*** W. Holland, 1930
Ann. Carnegie Mus. 20(1): 5-6; cited W. G. Wright (1905), Butterflies W. Coast: pl. 28, figs. 303 ♂ [not ♀], 303a ♂ D&V (holotype).
Original Combination: *Calephelis wrighti*
Type Locality: Not stated; suggested to be "near Mendocino" by W. G. Wright (1905) *ibid.*; defined as "the Coachella Valley" by J. A. Comstock (1935), Bull. South. Calif. Acad. Sci. 34(2): 148; subsequently suggested to be "oases in the deserts of Southern California, especially Riverside and San Diego Counties" by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 30.
Types: Holotype (#4357) in CAS.
- 575. ***Calephelis rawsoni*** McAlpine, 1939

Bull. Brooklyn Entomol. Soc. 34(2): 75-77, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5 ♂ D, 6 ♂ V, 7 venation, 8 ♂ genitalia, 9 ♂ genitalia.

Original Combination: *Calephelis rawsoni*

Type Locality: "Kerrville, Texas"; suggested to be "Lacey's ranch about seven miles southwest of Kerrville on Turtle Creek" by R. Kendall and C. Kendall (1971), J. Lepid. Soc. 25(1): 37. [Kerr County]

Types: Holotype (#27656) in AMNH.

576. *Calephelis freemani* McAlpine, 1971

J. Res. Lepid. 10(1): 53-55, no. 15, fig. 9, no. 15 ♂ D&V (holotype), ♀ D&V, fig. 20, no. 15 ♂&♀ genitalia.

Original Combination: *Calephelis freemani*

Type Locality: "Davis Mts., Jeff Davis County, Texas, about twelve miles northwest of Alpine, Texas, along State highway 118"

Types: Holotype in USNM.

577. *Calephelis arizonensis* McAlpine, 1971

J. Res. Lepid. 10(1): 55-57, no. 16, fig. 9, no. 16 ♂ D&V (holotype), ♀ D&V, fig. 20, no. 16 ♂&♀ genitalia.

Original Combination: *Calephelis arizonensis*

Type Locality: "Brown Canyon, Baboquivari Mts., Pima Co., Arizona"

Types: Holotype in USNM.

Genus *Baeotis* Hübner, [1819]

Verz. bekannt. Schmett. (2): 21. Type-species: *Baeotis hisbaena*, Hübner, [1819], Verz. bekannt. Schmett. (2): 21 (= *Papilio hisbon* Cramer, 1775, Utitl. Kapellen 1(7): 130, pl. 83, fig. C; (8): 153 (index); synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 125, no. 158.

578. *Baeotis zonata* (R. Felder, 1869)

a. *Baeotis zonata zonata* (R. Felder, 1869)

Verh. zool.-bot. Ges. Wien. 19(2/3): 469, no. 15.

Original Combination: *Baeotis zonata*

Type Locality: "Portrero" [Veracruz, Mexico]

Types: Syntype(s) in BMNH.

Repoted from Arizona by Saba & Winslow (2009), *News Lepid. Soc.* 51(1): 10, 30.

= *simbla* (Boisduval, 1870)

Consid. Lépid. Guat.: 22.

Original Combination: *Mesene simbla*

Type Locality: "Guatemala"

Types: Type(s) should be in MNHP or BMNH.

= *libna* (Butler, 1870)

Ann. Mag. Nat. Hist. (4)5(29): 364-365

Original Combination: *Charis libna*

Type Locality: "Mexico?"

Types: Type(s) should be in BMNH.

Genus *Caria* Hübner, 1823

Zutr. Samml. exot. Schmett. 2: 14. Type-species: *Caria colubris* Hübner, 1823, Zutr. Samml. exot. Schmett. 2: pl. [44], figs. 251, 252; 14, no. 126 (= *Hesperia plutargus* Fabricius, 1793, Entomol. Syst. 3(1): 329-330, no. 251; synonym), by monotypy.

***579. *Caria ino* (Godman & Salvin, 1886)**

Biol. centr.-amer., Lepid. Rhop. 3(44): pl. 43, figs. 22 ♂ D, 23 ♂ V, 24 ♀ D, 25 ♀ V (as *Symmachia ino*) (1886); 1(45): 449, no. 3 (as *Caria ino*); 2(167): 705 (1901).

Original Combination: *Symmachia ino*

Type Locality: "Mexico, Ventanas"; this was interpreted to be "Villa Corona, Durango" by Selander and Vaurie (1962), Am. Mus. Novit. (2009): 65.

Types: Syntypes in BMNH; one figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 76, figs. 3 ♂ D, 3a ♂ V.

a. *Caria ino melicerta* Schaus, 1890

Entomol. Am. 6(1): 18-19.

Original Combination: *Caria melicerta*

Type Locality: "Paso de San Juan" [Veracruz, Mexico]

Types: Lectotype in USNM, designated by Clench (1967), J. Lepid. Soc. 21(1): 56; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 76, figs. 2 ♂ D, 2a ♂ V.

Genus *Lasaia* H. Bates, 1868

J. Linn. Soc. Lond., Zool. 9(7): 397. Type-species: *Papilio meris* Stoll, 1781, Uitl. Kapellen 4(31): 146, pl. 366, figs. B, C; (34): 250 (index), by designation of Stichel (1911), *in*: Wytsman, Gen. Ins. 112(A): 184, 185.

= ‡*Talites* Capronnier, 1874

Annls. Soc. Entomol. Belg. 17: 20. Type-species: *Papilio meris* Stoll, 1781, Uitl. Kapellen 4(31): 146, pl. 366, figs. B, C; (34): 250 (index), by designation of Hemming (1935), Stylops 4(1): 2. A junior objective synonym of *Lasaia* Bates, 1868.

= ‡*Lasaia* Glaser, 1887

Cat. etymol. Coleopt. Lepidopt.: 279. An unjustified emendation of *Lasaia* H. Bates, 1868.

sessilis group Clench, 1972

J. Res. Lepid. 10(2): 155, 163.

580. *Lasaia maria* Clench, 1972

a. *Lasaia maria maria* Clench, 1972

J. Res. Lepid. 10(2): 164-166, no. 3, figs. 3 ♂ genitalia, 12 ♂ D, 13 ♂ V (holotype), 14 ♀ D, 15 ♀ V; cited *Lasaia sula* (*sensu* Stichel (1910), Gen. Insectorum 112(A): 186, pl. 26, fig. 49 ♂ D&V), and *Lasaia sessilis* (*sensu* Seitz (1917), *in*: Seitz, Grossschmett. Erde 5(258): 692; (282): pl. 142f, figs. [1] ♂ V, [3] ♂ D).

Original Combination: *Lasaia maria*

Type Locality: "Ajijic, 5300 ft., Jalisco, Mexico"

Types: Holotype (#645) in CMNH.

Recorded from Arizona by Opler and A. Warren (2002), Sci. Names List Butterflies N. A.: 31.

agesilaus group Clench, 1972

J. Res. Lepid. 10(2): 155, 171.

*581. *Lasaia sula* Staudinger, 1888

In: Staudinger & Schatz, Exot. Schmett. 1(1)(20): 257.

Original Combination: [*Lasaia Narses*] var. *Sula*

Type Locality: "San Pedro de Sula" [Honduras]

Types: Lectotype in ZMHB, designated by Clench (1972), J. Res. Lepid. 10(2): 173, no. 7b, figs. 24 ♂ D, 25 ♂ V.

a. *Lasaia sula peninsularis* Clench, 1972

J. Res. Lepid. 10(2): 172-173, no. 7a, figs. 7 ♂ genitalia, 20 ♀ D, 21 ♀ V; 22 ♂ D, 23 ♂ V (holotype).

Original Combination: *Lasaia sula peninsularis*

Type Locality: "Pisté, Yucatán, Mexico"

Types: Holotype (#648) in CMNH.

874

Genus **Melanis** Hübner, [1819]

Verz. bekannt. Schmett. (2): 25. Type-species: *Papilio melander* Stoll, 1780, Uitl. Kapellen 4(28): 89, pl. 336, fig. B (not A); (34): 250 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 214, no. 671.

- = *Lymanas* Blanchard, 1840
In: Castelnau, Hist. Nat. Ins. 3: 464. Type-species: *Hesperia electron* Fabricius, 1793, Entomol. Syst. 3(1): 321, no. 214, by original designation.
- = ‡*Limnas* Boisduval, 1836
Spec. gén. Lépid. 1: pl. 20 (= 4C), fig. 1. Type-species: *Limnas pixe* Boisduval, 1836, Spec. gén. Lépid. 1: pl. 20 [=4C], fig. 1, by monotypy. Preoccupied by *Limnas* Hübner, [1806], Samml. exot. Schmett. 1: pl. [29].
- = ‡*Dryas* C. Felder & R. Felder, 1865
Reise Novara (2): 305. Type-species: *Limnas cinaron* C. Felder & R. Felder, 1861, Wien. Entomol. Montaschr. 5(4): 101, no. 69, by monotypy. Preoccupied by *Dryas* Hübner, [1807], Samml. exot. Schmett. 1: pls. [43], [44].
- = ‡*Oreas* C. Felder & R. Felder, 1865
Reise Novara (2): 305. Type-species: *Oreas marathon* C. Felder & R. Felder, 1865, Reise Novara (2): 305, no. 411, pl. 38, figs. 3, 4, by designation of Hemming (1964), Annot. Lepid. (4): 129. Preoccupied by *Oreas* Hübner, [1807], Samml. exot. Schmett. 1: pl. [82].
- = *Aculhua* W. F. Kirby, 1871
Syn. Cat. diurn. Lepid.: 301. Type-species: *Limnas cinaron* C. Felder & R. Felder, 1861, Wien. Entomol. Montaschr. 5(4): 101, as a replacement name. Proposed to replace *Dryas* C. Felder & R. Felder, 1865, Reise Novara (2): 305, preoccupied (Code Articles 60.3, 67.8).
- = *Rusalkia* W. F. Kirby, 1871
Syn. Cat. diurn. Lepid.: 306. Type-species: *Oreas marathon* C. Felder & R. Felder, 1865, Reise Novara (2): 305, no. 411, pl. 38, figs. 3, 4, by designation of W. F. Kirby [1873], Zool. Rec. 8(1871)(Ins.): 364. Proposed to replace *Oreas* C. Felder & R. Felder, 1865, preoccupied (Code Article 60.3).

582. **Melanis pixe** (Boisduval, 1836)

a. **Melanis pixe pixe** (Boisduval, 1836)

Spec. gén. Lépid. 1: pl. 20 [=4C], fig. 1 ♂ D, 5 ♂ V; explication plate.

Original Combination: *Limnas Pixe*

Type Locality: "Mexique"

Types: Location of type(s) not known.

- = *gynaeceas* (Godman & Salvin, 1889)
Ann. Mag. Nat. Hist. (6)3(16): 356, no. 12; figured by Godman (1901), in: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 3(167): pl. 110, fig. 3 ♀ D.

Original Combination: *Limnas gynaeceas*

Type Locality: "Mexico, Cuesta de Misantla" [Veracruz]

- Types:** Holotype in BMNH.
 = *sexpunctata* (Seitz, 1917)
In: Seitz, Grossschmett. Erde 5(256): 659.
Original Combination: [*Lymnas pixe*]
 form *sexpunctata*
Type Locality: "Guerrero" [Mexico]
Types: Location of type(s) not known.

Tribe **Emesiini** Stichel, 1911

In: Wytzman, Gen. Ins. 112(B): 259. Type-genus: *Emesis* [Fabricius], 1807, *in:* Illiger Mag. f. Insektenk. 6: 287, no. 38.

Genus **Emesis** [Fabricius], 1807

In: Illiger Mag. f. Insektenk. 6: 287, no. 38. Type-species: *Hesperia ovidius* Fabricius, 1793, Entomol. Syst. 3(1): 320, no. 212 (= *Papilio cerea* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): errata; synonym), by designation of Westwood (1851), *in:* Gen. diurn. Lepid. 2(47): 421. I.C.Z.N. *Opinion* 232 placed this name on the *Official List of Generic Names in Zoology* as name no. 660.

- = *Polystichtis* Hübner, [1819]
 Verz. bekannt. Schmett. (2): 18. Type-species: *Papilio cerea* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): errata, by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 49.
- = *Aphacitis* Hübner, [1819]
 Verz. bekannt. Schmett. (2): 19. Type-species: *Papilio dyndima* Cramer, 1780, Uitl. Kapellen 3(23): 142, pl. 271, figs. G, H; (24): 174 (index) (= *Papilio lucinda* Cramer, 1775, Uitl. Kapellen 1(1): 3, pl. 1, figs. E, F; (8): 153 (index); synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 116, no. 99.
- = ‡*Tapina* Billberg, 1820
 Enum. Ins. Mus. Billb.: 81. Type-species: *Hesperia ovidius* Fabricius, 1793, Entomol. Syst. 3(1): 320 (= *Papilio cereus* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): errata; synonym), as a replacement name. Proposed to replace *Emesis* [Fabricius], 1807, erroneously thought preoccupied; a junior objective synonym of *Emesis*.
- = *Nimula* Blanchard, 1840
In: Castelnau, Hist. Nat. Ins. 3: 465. Type-species: *Papilio lucinda* Cramer, 1775, Uitl. Kapellen 1(1): 3, pl. 1, figs. E, F; (8): 153 (index), by original designation.
- = ‡*Polytichthis* Agassiz, 1847
 Nomencl. Zool. (4to ed.)(12)(index univ.): 304. An unjustified emendation of *Polystichtis* Hübner, [1819].
- = *Nelone* Boisduval, 1870
 Consid. Lépid. Guat.: 23. Type-species: *Papilio fatima* Cramer, 1780, Uitl. Kapellen 3(23): 141-142, pl. 271, fig. A (only); (24): 174 (index) (= *Papilio cerea* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): errata; synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 225.

- *583. **Emesis zela** Butler, 1870
 Ann. Mag. Nat. Hist. (4)5(29): 364; figured by Butler (1871), Lepid. exot. (2): 40, pl. 14, fig. 1 ♂ D.
Original Combination: *Emesis Zela*
Type Locality: "Venezuela...Mexico"
Types: Syntypes in BMNH.
 a. **Emesis zela cleis** (W. H. Edwards, 1882)

Papilio 2(8): 137.

Original Combination: *Lemonias Cleis*

Type Locality: "Fort Grant and in Graham Mountains, Arizona" implied from the title of the paper. [Graham County]

Types: Lectotype in CMNH, designated by F. Brown and Clench (1968), *in*: F. Brown, Trans. Am. Entomol. Soc. 94(2): 134-135, fig. 8 ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 28, fig. 19 ♂ D (lectotype), fig. 20 ♀ D (paralectotype).

The male "cotype" of *Lemonias ares* W. H. Edwards, 1882, is this species.

584. *Emesis ares* (W. H. Edwards, 1882)

Papilio 2(8): 136-137.

Original Combination: *Lemonias Ares*

Type Locality: "Fort Grant and in Graham Mountains, Arizona" implied from the title of the paper [Graham County]

Types: Lectotype in CMNH, designated by F. Brown and Clench (1968), *in*: F. Brown, Trans. Am. Entomol. Soc. 94(2): 133, fig. 7 ♀ D&V.

Callaghan and Lamas (2004), *in*: Lamas, Atl. Neotrop. Lepid. Chcklst. Part 4A: 161, erroneously synonymized this species under *E. zela*.

585. *Emesis emesia* (Hewitson, 1867)

Ill. exot. Butterflies 4(61): [84], pl. Symmachia, fig. 7 ♂ D.

Original Combination: *Symmachia Emesia*

Type Locality: "Nicaragua"

Types: Holotype in BMNH.

= *yucatanensis* Godman & Salvin, 1886

Biol. centr.-amer., Lepid. Rhop. 1(44): 416, no. 2.

Original Combination: *Symmachia yucatanensis*

Type Locality: "Mexico, Valladolid in Yucatan"

Types: Syntypes in BMNH.

Godman and Salvin (1901), Biol. centr.-amer., Lepid. Rhop. 2(167): 702, determined this synonymy.

586. *Emesis tenedia* C. Felder & R. Felder, 1861

Wien. entomol. Monatschr. 5(4): 99, no. 61.

Original Combination: *Emesis Tenedia*

Type Locality: "Venezuela...Nova Granada in provincia Bogotá, prope pagum Muzo"

Types: Syntypes possibly in BMNH.

Recorded from Texas by Bordelon and Knudson (2000), News Lepid. Soc. 42(1): 19, pl. 1, figs. 5a, 5b.

Genus *Apodemia* C. Felder & R. Felder, 1865

Reise Novara Zool. (2): 302. Type-species: *Lemonias mormo* C. Felder & R. Felder, 1859, Wien. Entomol. Montaschr. 3(9): 271, no. 19, by designation of Stichel (1911), *in*: Wytsman, Gen. Ins. 112(B): 285, 287.

= *Chrysobia* Boisduval, 1869

Annls. Soc. Entomol. Belg. 12: 52. Type-species: *Chrysobia mormonia* Boisduval, 1869, Annls. Soc. Entomol. Belg. 12: 52 (= *Lemonias mormo* C. Felder & R. Felder, 1859, Wien. Entomol. Montaschr. 3(9): 271, no. 19; synonym), by original designation.

= ‡*Polystigma* Godman & Salvin, 1886

Biol. centr.-amer., Lepid. Rhop. 1(45): 469. Type-species: *Chrysophanus nais* W. H. Edwards, 1877, Trans. Am. Entomol. Soc. 5(3/4): 291-292, by monotypy.

Preoccupied by *Polystigma* Kraatz, 1880, Dtsche. Entomol. Z. 24(2): 191.

- 587. *Apodemia mormo*** (C. Felder & R. Felder, 1859)
 Several recent authors (e.g., G. Forbes (1979), J. Res. Lepid. 18(3): 201-207, Pratt and Balmer (1991), J. Lepid. Soc. 45(1): 46-57) strongly suggest that this complex, previously considered a single species, includes multiple species-level taxa. However, at this time there is no consensus on species-level boundaries. The arrangement presented is partly based on studies cited above, as well as Opler and A. Warren (2002), Sci. Names List Butterflies N. A.: 31, K. Davenport (2004), Tax. Rep. Int. Lepid. Surv. 4(7): 13, and (2004), Tax. Rept. Int. Lepid. Surv. 5(1): 35, but should be considered tentative.
- a. *Apodemia mormo mormo*** (C. Felder & R. Felder, 1859)
 Wien. Entomol. Montaschr. 3(9): 271, no. 19; figured by C. Felder and R. Felder (1865), Reise Novara (2): 302, pl. 37, figs. 15 ♂ D, 16 ♂ V.
Original Combination: *Lemonias Mormo*
Type Locality: "Salzsee"; suggested to be "eastern flanks of the Californian or Nevadan mountains somewhere west of the general region of Reno and Carson City, Nevada" by F. Brown (1967), J. Lepid. Soc. 21(4): 272; defined as "near Pyramid Lake, Washoe Co., Nevada" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (3): 131; subsequently defined as "Davis Creek Park, W. of Washoe Lake, Washoe County, Nevada" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (5): 89.
Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (5): 89, figs. 16 ♂ D, 17 ♂ V.
 = *dumeti* (Behr, 1865)
 Proc. Calif. Acad. Sci. [1]3(12): 178.
Original Combination: *N[emeobius]. Dumeti*
Type Locality: "California" implied from the title of the paper, "always in localities that are covered by...Chaparral" from the description; neotype from "Davis Creek Park, west of Washoe Lake, Washoe County, Nevada."
Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 104, figs. 73 ♂ D, 74 ♂ V. This is the lectotype of *Chrysobia mormonia*, making *dumeti* a senior objective synonym of *mormonia*.
 = *mormonia* (Boisduval, 1869)
 Anns. Soc. Entomol. Belg. 12: 52.
Original Combination: *Chrysobia mormonia*
Type Locality: "l'Oregon" in error; suggested to be "Davis Creek Park, W. of Washoe Lake, Washoe County, Nevada" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 31.
Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 31, figs. 228 ♂ D, 229 ♂ V.
- b. *Apodemia mormo parva*** Austin, 1998

Syst. W. N. Am. Butterflies (45): 562, figs. 129 ♂ D, 130 ♂ V (holotype); 131 ♀ D, 132 ♀ V.

Original Combination: *Apodemia mormo parva*

Type Locality: "Nevada: Eureka County; west slope of Diamond Mountains, Nevada state route 46, 0.8 miles north of Eureka, 1951 m, T19N R53E S12 on USGS Eureka, Nev. 15' quadrangle"

Types: Holotype in MGCL.

c. ***Apodemia mormo autumnalis*** Austin, 1998

Syst. W. N. Am. Butterflies (45): 561-562, figs. 125 ♂ D, 126 ♂ V (holotype); 127 ♀ D, 128 ♀ V.

Original Combination: *Apodemia mormo autumnalis*

Type Locality: "Nevada: Clark County; Spring Mountains, 2 road miles north of Red Cloud Mine, 1829 m, T24S R58 S5 on USGS Goodsprings, Nev. 15' quadrangle"

Types: Holotype in MGCL.

d. ***Apodemia mormo cythera*** (W. H. Edwards, 1873)

Trans. Am. Entomol. Soc. 3(3/4): 345-346; figured by Mead (1875), Rep. Coll. diurn. Lepid. 5(Zool.): pl. 36, figs. 3 ♂ V, 4 ♂ D.

Original Combination: *Lemonias Cythera*

Type Locality: "Arizona"; defined as "vicinity of Truxton, Arizona" by F. Brown [1958], J. N. Y. Entomol. Soc. 65(3/4): 231; suggested to be "the area of Independence, California" by Opler and Powell (1962), J. Lepid. Soc. 15(3): 154-155; neotype from "9 mi. w. Lone Pine." [Inyo County, California]

Types: Neotype in EMEC, designated by Opler (1968), *in*: F. Brown, Trans. Am. Entomol. Soc. 94(2): 119, fig. 1 ♂ D&V.

K. Davenport (2004), Tax. Rep. Int. Lepid. Surv. 4(7): 13, and (2004), Tax. Rept. Int. Lepid. Surv. 5(1): 35, suggested that this may be a species-level taxon.

e. ***Apodemia mormo tuolumnensis*** Opler & Powell, 1962

J. Lepid. Soc. 15(3): 159-160, pl. top, 3rd row right ♂ D, bottom, 3rd row, right ♂ V (holotype).

Original Combination: *Apodemia mormo tuolumnensis*

Type Locality: "Grand Canyon of the Tuolumne, Yosemite National Park, Tuolumne County, California"

Types: Holotype in CAS.
K. Davenport (2004), Tax. Rep. Int. Lepid. Surv. 4(7): 13, and (2004), Tax. Rept. Int. Lepid. Surv. 5(1): 35, suggested that this may be a subspecies of *A. cythera*.

f. ***Apodemia mormo langei*** J. A. Comstock, 1939

Bull. South. Calif. Acad. Sci. 37(3): 129-131, pl. 50, figs. 1 ♂ D (holotype), 2 ♀ D.

Original Combination: *Apodemia mormo langei*

Type Locality: "Antioch, Contra Costa County, California"

Types: Holotype in LACM.

588. ***Apodemia virgulti*** (Behr, 1865)

a. ***Apodemia virgulti peninsularis*** J. Emmel, T. Emmel & Pratt, 1998

Syst. W. N. Am. Butterflies (68): 805, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.

Original Combination: *Apodemia mormo peninsularis*

- Type Locality:** "California: San Diego County; Laguna Mountains; northeast edge of El Prado Meadow, 5,500' elevation; SE 1/4 of S.3, T.15S., R.5E."
Types: Holotype in LACM.
- b. **Apodemia virgulti virgulti** (Behr, 1865)
 Proc. Calif. Acad. Sci. [1]3(12): 178.
Original Combination: *N[emeobius]. Virgulti*
Type Locality: "California" implied from the title of the paper, "near Los Angeles" from the description; neotype from "La Tuna Canyon, 1200' elevation, Verdugo Mountains, Los Angeles County, California."
Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 104, figs. 76 ♂ D, 77 ♂ V.
 = *sonorensis* C. Felder & R. Felder, 1865
 Reise Novara (2): 303, no. 407.
Original Combination: *Apodemia Sonorensis*
Type Locality: "Sonora"; defined as "La Tuna Canyon, 1200 ft. elev., Verdugo Mts., Los Angeles County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (5): 89.
Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (5): 89, figs. 19 ♂ D, 20 ♂ V.
- c. **Apodemia virgulti arenaria** J. Emmel & T. Emmel, 1998
 Syst. W. N. Am. Butterflies (67): 806, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V.
Original Combination: *Apodemia mormo arenaria*
Type Locality: "California: Los Angeles County; El Segundo sand dunes; foredunes area 0.1-0.2 air mile NNE of intersection Imperial Highway and Vista Del Mar, 100'-150' elevation"
Types: Holotype in LACM.
- d. **Apodemia virgulti nigrescens** J. Emmel & T. Emmel, 1998
 Syst. W. N. Am. Butterflies (67): 796-797, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.
Original Combination: *Apodemia mormo nigrescens*
Type Locality: "California: San Bernardino County; Colton; sandy area 0.1 air mile NW of intersection of Pepper St. and Slover Ave., ca 0.8 air mile WNW of Slover Mt., 1040' elev.; SE 1/4 of S. 24, T.1S, R.5W."
Types: Holotype in LACM.
- e. **Apodemia virgulti pratti** J. Emmel & T. Emmel, 1998
 Syst. W. N. Am. Butterflies (67): 795-796, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Apodemia mormo pratti*
Type Locality: "California: San Bernardino County; San Bernardino Mountains; Holcomb Valley"
Types: Holotype in LACM.
- f. **Apodemia virgulti dialeucoides** J. Emmel, T. Emmel & Pratt, 1998
 Syst. W. N. Am. Butterflies (68): 804, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.
Original Combination: *Apodemia mormo dialeucoides*
Type Locality: "California: San Bernardino County; San Bernardino Mountains; Sugarloaf Mountain"

- Types:** Holotype in LACM.
- g. *Apodemia virgulti mojavelimbus*** J. Emmel, T. Emmel & Pratt, 1998
 Syst. W. N. Am. Butterflies (68): 803, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.
Original Combination: *Apodemia mormo mojavelimbus*
Type Locality: "California: San Bernardino County; Ord Mountains...north slope of the San Bernardino Mountains"
Types: Holotype in LACM.
- h. *Apodemia virgulti davenporti*** J. Emmel, T. Emmel & Pratt, 1998
 Syst. W. N. Am. Butterflies (68): 801-802, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Apodemia mormo davenporti*
Type Locality: "California: Kern County; Walker Pass, 5,300' elevation"
Types: Holotype in LACM.
- 589. *Apodemia mejicanus*** (Behr, 1865)
- a. *Apodemia mejicanus mejicanus*** (Behr, 1865)
 Proc. Calif. Acad. Sci. [1]3(12): 178, 179.
Original Combination: *N[emeobius]. Mejicanus*
Type Locality: "the Sierra Madre, in the neighborhood of Mazatlan" [Sinaloa, Mexico].
Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire.
- b. *Apodemia mejicanus pueblo*** Scott, 1998
 Papilio (n.s.) 11: 4, fig. 7 ♂ D (holotype), 8 ♀ D.
Original Combination: *Apodemia mormo pueblo*
Type Locality: "S of Security, El Paso Co. Colo." [Colorado]
Types: Holotype in BMNH.
- c. *Apodemia mejicanus deserti*** W. Barnes & McDunnough, 1918
 Contr. Nat. Hist. Lepid. N. Am. 4(2): 75, pl. 12, figs. 1 ♂ D, 2 ♀ D.
Original Combination: *Apodemia mormo deserti*
Type Locality: "La Puerta Valley, S. Calif." [San Diego County, California]
Types: Syntypes in USNM.
- 590. *Apodemia duryi*** (W. H. Edwards, 1882)
 Papilio 2(3): 45, 47-48, no. 4.
Original Combination: *Lemonias Duryi*
Type Locality: "New Mexico, about five miles east of Mesilla, in some foothills of the Organ Mts." [Dona Ana County]
Types: Lectotype in CMNH, designated by F. Brown (1968), Trans. Am. Entomol. Soc. 94(2): 121, fig. 2 ♀ D&V; figured by W. Holland (1898), Butterfly Book: 230, pl. 28, fig. 10 ♀ D.
- 591. *Apodemia palmerii*** (W. H. Edwards, 1870)
- a. *Apodemia palmerii palmerii*** (W. H. Edwards, 1870)
 Trans. Am. Entomol. Soc. 3(2): 189, 195, no. 11; figured by W. H. Edwards (1883), Butterflies N. Am. 2(11): pl. Lemonias 1, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.
Original Combination: *Lemonias Palmerii*
Type Locality: "Utah"; suggested to be "Littlefield, Mohave Co., Arizona: 1846', T40N R15W, 36° 53' N/113° 56' W" by F. Brown (1967), J. Lepid. Soc. 21(2):

- 134; defined as "St. George, Washington Co., Utah" by F. Brown (1968), Trans. Am. Entomol. Soc. 94(2): 121.
Types: Holotype in CMNH, figured by F. Brown (1968), Trans. Am. Entomol. Soc. 94(2): fig. 3 ♂ D&V.
 = *marginalis* (Skinner, 1920)
 Entomol. News 31(6): 175.
Original Combination: *Lemonias palmeri marginalis* n. var.
Type Locality: "Acme, California"
Types: Holotype (#7041) in ANSP; a paratype figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 64, fig. 1 ♂ D.
- b. Apodemia palmerii arizona** Austin, [1989]
 J. Res. Lepid. 26(1-4): 130-132, figs. 2a top left ♂ D (holotype), top right ♀ D, 2b top left ♂ V (holotype), top right ♀ V.
Original Combination: *Apodemia palmerii arizona*
Type Locality: "Arizona: Cochise County, Arizona State Route 90, 10.8 miles north of Arizona State Route 82"
Types: Holotype in MGCL.
- 592. Apodemia hepburni** Godman & Salvin, 1886
a. Apodemia hepburni hepburni Godman & Salvin, 1886
 Biol. centr.-amer., Lepid. Rhop. 1(45): 468, no. 5; 3: pl. 47, figs. 11 ♂ D, 12 ♂ V.
Original Combination: *Apodemia hepburni*
Type Locality: "Mexico, Pinos Altos in Chihuahua"
Types: Holotype in BMNH.
- 593. Apodemia walkeri** Godman & Salvin, 1886
 Biol. centr.-amer., Lepid. Rhop. 1(45): 468, no. 6; 3: pl. 47, figs. 13 ♂ D, 14 ♂ V.
Original Combination: *Apodemia walkeri*
Type Locality: "Mexico, Acapulco" [Guerrero]
Types: Holotype in BMNH.
- 594. Apodemia multiplaga** Schaus, 1902
 Proc. U. S. Nat. Mus. 24(1262): 404.
Original Combination: *Apodemia Multiplaga*
Type Locality: "Rinconada, Mexico" [Veracruz]
Types: Holotype (#5912) in USNM; a paratype figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 76, figs. 4 ♂ D, 4a ♂ V.
- 595. Apodemia phyciodoides** W. Barnes & Benjamin, 1924 †
 Contr. Nat. Hist. Lepid. N. Am. 5(3): 99-100.
Original Combination: *Apodemia phyciodoides*
Type Locality: "Chiracahua Mts., Cochise Co., Ariz." [Arizona]
Types: Holotype in USNM; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 76, figs. 5 ♂ D, 5a ♂ V (holotype), 6 ♀ D, 6a ♀ V ("allotype"), and Howe (1975), Butterflies N. Am.: pl. 48, fig. 31 ♂ D&V.
 This species may be extirpated from the United States, present but currently undetected, or the type specimens may have been originally mislabeled (see R. Holland and Forbes (1981), J. Lepid. Soc. 35(3): 226-232, fig. 2 ♂ D&V and R. Holland (2007), News Lepid. Soc. 49(4):120-121, 127).
- 596. Apodemia nais** (W. H. Edwards, 1877)

Trans. Am. Entomol. Soc. 5(3/4): 291; figured by W. H. Edwards (1883), Butterflies N. Am. 2(11): pl. Lemonias 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Chrysophanus Nais*

Type Locality: "Southern California...Prescott, Arizona"; defined as "Prescott, Arizona" by F. Brown (1968), Trans. Am. Entomol. Soc. 94(2): 124. [Yavapai County]

Types: Lectotype in CMNH, designated by F. Brown (1968), Trans. Am. Entomol. Soc. 94(2): 125-126, fig. 4 ♀ D&V; figured by W. Holland (1898), Butterfly Book: pl. 28, fig. 9 ♀ D.

597. Apodemia chisosensis H. Freeman, 1964

J. Lepid. Soc. 18(2): 75, 77, pl. 1, right, top ♂ D, 2nd ♂ V (holotype), 3rd ♀ D, 4th ♀ V, bottom ♂ genitalia.

Original Combination: *Apodemia chisosensis*

Type Locality: "Chisos Mountains, elevation 5400 ft., Texas" [Big Bend National Park, Brewster County]

Types: Holotype in AMNH; figured by Howe (1975), Butterflies N. Am.: pl. 47, figs. 24, ♂ D, 25 ♂ V.

Family NYMPHALIDAE Rafinesque, 1815

Analyse Nat.: 127 (as "Nymphalia"). Type-genus: *Nymphalis* Kluk, 1780, Zwierr. Hist. Nat. Pocz. Gospod. 4: 86-89, no. 147. I.C.Z.N. *Opinion* 278 placed *Nymphalis* on the *Official List of Generic Names in Zoology* as name no. 702. Rafinesque did not include *Nymphalis* among the listed genera, but *Nymphalis* is unequivocally implied from the formation of the name (Code Article 11.7.1.1). I.C.Z.N. *Direction* 99 placed Nymphalidae Swainson, 1827, Phil. Mag. (2)1(3): 185, 187 on the *Official List of Family-group Names in Zoology* as name no. 232. Koçak (1981), Priamus 1(2): 93-96, demonstrated that Swainson's name was based on *Nymphalis* Latreille, 1804, Nouv. Dict. Hist. Nat. 24(tab): 184, 199, a homonym, and thus invalid (Code Article 39). The Rafinesque name has the advantage of priority, and *Nymphalis* Kluk, 1780, can be assumed to be the type-genus. An application must be made to the I.C.Z.N. to correct the *Official List* (Code Article 79.5). The arrangement of family-group names follows Wahlberg *et al.* (2003), Mol. Phylogen. Evol. 28(3): 473-484, (2005), Proc. R. Entomol. Soc. Lond. (B) 272(1572): 1577-1586, (2005), Biol. J. Linn. Soc. 86(2): 227-251, and Peña *et al.* (2006), Mol. Phylogen. Evol. 40(1): 29-49.

Subfamily Libytheinae Boisduval, 1833

Nouv. Ann. Mus. Hist. Nat., Paris 2(2): 201 (as "Libythides"). Type-genus: *Libythea* [Fabricius], 1807, in: Illiger, Mag. f. Insektenk. 6: 284, no. 28.

Genus Libytheana Michener, 1943

Am. Mus. Novit. (1232): 1, figs. 4-6 (genitalia of type-species). Type-species: *Libythea bachmanii* Kirtland, 1851, Family Visitor 2(76): 189, illustr. (= *Papilio carinenta* Cramer, 1777, Utitl. Kapellen 2(9): 18, pl. 108, figs. E, F; (16): 148 (index); subspecies), by original designation. The arrangement of taxa in this genus follows that given in Kawahara (2006), Trans. Lepid. Soc. Japan 57(3): 265-277, and (2009), Cladistics 25(3): 263-278.

***598. Libytheana carinenta** (Cramer, 1777)

Utitl. Kapellen 2(9): 18, pl. 108, figs. E ♂ D, F ♂ V; (16): 148 (index).

Original

Combination: *Pap[ilio]. Nymph[alis]. Phaler[ata]. Carinenta*

Type Locality: "Surinamen" "Suriname"

Types: Type(s) probably lost.

a. Libytheana carinenta mexicana Michener, 1943

Am. Mus. Novit. (1232): 1-2.

Original Combination: *Libytheana carinenta mexicana*

Type Locality: "Jalapa, Mexico" [Veracruz]

Types: Holotype in AMNH.

- b. *Libytheana carinenta streckeri*** Austin & J. Emmel, 1998

Syst. W. N. Am. Butterflies (42): 511.

Original Combination: *Libytheana carinenta streckeri* Austin and J. Emmel adopted *Libythea bachmanii larvata* form *streckeri* W. D. Field, 1938, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= ‡"streckeri" (W. D. Field, 1938)
J. Kans. Entomol. Soc. 11(4): 126.

Original Combination: [*Libythea bachmanii larvata*] [f.] *streckeri*

Type Locality: "Donna, Texas" [Hidalgo County]

Types: "Holotype" in USNM.

- c. *Libytheana carinenta larvata*** (Strecker, [1878])

Lepid. Rhop. Het. (14): 130-131.

Original Combination: *Libythea Larvata*

Type Locality: Not stated; "vicinity of New Braunfels and San Antonio, Southwestern Texas" implied from the introductory text. [Comal and Bexar counties]

Types: Syntypes in FMNH.

- d. *Libytheana carinenta bachmanii*** (Kirtland, 1851)

Family Visitor 2(76): 189, fig. ♂ D.

Original Combination: *Libythea bachmanii*

Type Locality: "Mahoning Co., Ohio"

Types: Type(s) probably lost, but possible syntypes may be in the Peale collection, ANSP.

The original description is frequently cited as Kirtland (1852), Am. J. Sci. Arts. (2)13(39): 336-337, fig., with a type locality of "Northern Ohio." See Goodwin (1959), Lepid. News 12(3/4): 121.

= ‡"kirtlandi" (W. D. Field, 1938)
J. Kans. Entomol. Soc. 11(4): 124-125.

Original Combination: [*Libythea bachmanii bachmanii*] [f.] *kirtlandi*

Type Locality: "Lawrence, Kansas" [Douglas County]

Types: "Holotype" in USNM.

- 599. *Libytheana motya*** (Hübner, [1823])

Samml. exot. Schmett. 2: pl. [137], figs. 1 ♂ D, 2 ♂ V.

Original Combination: *Hecaërge Motya*

Type Locality: Not stated; this is a Cuban species.

Types: Location of type(s) not known, probably lost.

Recorded from Texas by J. Heitzman and R. Heitzman (1973), J. Res. Lepid. 10(4): 284-286.

Subfamily **Danainae** Boisduval, [1833]

Icon. Hist. Lépid. Europ. 1(9): 84 (as "Danoides"). Type-genus: *Danaïs* Latreille, 1807, Mag. f. Insektenk. 6: 291-292, no. 3. A junior objective synonym of *Danaus* Kluk, 1780, Zwierz. Hist. Nat. Pocz. Gospod. 4: 83. I.C.Z.N. *Direction* 99 placed Danaidae on the *Official List of Family-Group Names in Zoology* as name no. 230; the same *Direction* placed Danaoides on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* as name no. 268.

Tribe **Danaini** Boisduval, [1833]

Subtribe **Danaina** Boisduval, [1833]



Genus **Danaus** Kluk, 1780

Zwierz. Hist. Nat. Pocz. Gospod. 4: 83-86, no. 145. Type-species: *Papilio plexippus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 471, no. 80, by designation of Hemming (1933), Entomol. 66(845): 222. I.C.Z.N. *Opinion* 278 placed this name on the *Official List of Generic Names in Zoology* as name no. 699.

Subgenus **Danaus** Kluk, 1780

- = ‡*Danaida* Latreille, 1804
Nouv. Dict. Hist. Nat. 24 (tab.): 185, no. 474, 199. Type-species: *Papilio plexippus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 471, no. 80, by monotypy. A junior objective synonym of *Danaus* Kluk, 1780.
- = ‡*Danais* Latreille, 1807
Mag. f. Insektenk. 6: 291-292, no. 3. Type-species: *Papilio plexippus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 471, no. 80, by monotypy. A junior objective synonym of *Danaus* Kluk, 1780.
- = ‡*Danaus* Latreille, 1809
Gen. Crust. Ins. 4: 201. Type-species: *Papilio plexippus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 471, no. 80, by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 28. Preoccupied by and a junior objective synonym of *Danaus* Kluk, 1780.
- = ‡*Festivus* Crotch, 1872
Cist. Entomol. 1(4): 62. Type-species: *Papilio plexippus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 471, no. 80, by original designation. A junior objective synonym of *Danaus* Kluk, 1780.
- = *Diogas* d'Almeida, 1938
O Campo 9(102): 41. Type-species: *Papilio erippus* Cramer, 1775, Uitl. Kapellen 1(1): 4-5, pl. 3, figs. A, B; (8): 152 (index), by original designation.

600. **Danaus plexippus** (Linnaeus, 1758)

a. **Danaus plexippus plexippus** (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 471, no. 80; cited various works, including Sloane (1725), Voy. Mad. Barb. Niev. St. Christ. Jam. 2: 214, pl. 239, figs. 5, 6, and Catesby (1743), Nat. Hist. Carolina 2: 88, pl. 88.

Original Combination: *P[apilio]. D[anaus Festivus]. Plexippus*

Type Locality: "America septentrionali"; neotype from "Kendall, New York State." [Orleans County]

Types: Neotype in USNM, designated by I.C.Z.N. *Opinion* 282; figured by A. Clark (1941), Proc. U. S. Nat. Mus. 90(3118): pl. 71, fig. 1 ♂ D.

I.C.Z.N. *Opinion* 282 placed this name on the *Official List of Specific Names in Zoology* as name no. 111.

- = ‡"misippiformis" Meuschen, 1781
Mus. Gronovianum: verso, folio "Fff ff 2," under the heading "Index Insectorum/ Lepidoptera", no. 801.

Original Combination: [*Papilio*] *Misippiformis*

Type Locality: Not stated.

Types: Type(s) probably lost.

I.C.Z.N. *Opinion 260* placed this work on the *Official Index of Rejected and Invalid Works in Zoological Nomenclature*.

- = ‡*archippus* (Fabricius, 1793)
Entomol. Syst. 3(1): 49, no. 150.

Original

Combination: *P[apilio]. F[estivi]. Archippus*

Type Locality: "America meridionali"

Types: Syntypes in ZMUC.

Preoccupied by *Papilio archippus* Cramer, 1775, Uitl. Kapellen 1(1): pl. 16, figs. A, B; (2): 24; (8): 151 (index), but possibly just a misidentification.

- = ‡*curassavicae* Bryk, 1937
Lepid. Cat. 78: 42; cited Fabricius (1807), Syst. Glossat.: 69, no. 1.

Original

Combination: *Danaus (Anosia) curassavicae*

Proposed as a replacement name for *Papilio archippus* Fabricius, 1793, based on a foodplant name; a junior objective synonym of *Papilio plexippus*.

The reference to "Fabricius, 1807" is spurious, since that work is unpublished.

- = ‡*curassavicae* Fabricius, 1938
In: Bryk, Syst. Glossat.: 69, no. 1; cited Fabricius (1793), Entomol. Syst. 3(1): 49, and J. E. Smith (1797), *in:* Smith & Abbot, Ins. Georgia 1: pl. 7, among others.

Original Combination: *E[uploea]. Curassavicae*

Proposed as a replacement name for *Papilio archippus* Fabricius, 1793, based on a foodplant name; a junior objective synonym of *Papilio plexippus*.

- = ‡*asclepiadis* (Fabricius, 1938)
In: Bryk, Syst. Glossat.: 70, no. 2; cited Linnaeus (1758), Syst. Nat. (ed. 10) 1: 471, no. 80, among others.

Original Combination: *E[uploea]. Asclepiadis*

Proposed as a replacement name for *Papilio plexippus*, based on a foodplant name; a junior objective synonym of *Papilio plexippus*.

- = ‡"*fumosus*" (Hulst, 1886)
Entomol. Am. 2(9): 182.

Original Combination: *Danais archippus* var. *fumosus*

Type Locality: Not stated; "holotype" stated to be "Long Island" by Ottolengui (1895), Entomol. News 6(7): 217. [New York]

Types: "Holotype" in USNM.

- = ‡"*pulchra*" (Strecker, 1900)
Lepid. Rhop. Het. (suppl. 3): 21.

Original Combination: *Danais plexippus* var. *pulchra*

Type Locality: "Colorado"

Types: "Holotype" in FMNH.

- = ‡"*americanus*" Gunder, 1927
Entomol. News 38(5): 137-138, no. 10, pl. 2, fig. 10 ♀ D (holotype).

Original Combination: *Danaus menippe americanus* ♀ nov. tr. form

Type Locality: "Sunny Glen Ranch, Brewster Co., Texas"

Types: "Holotype" in AMNH.

- = ‡"nivosus" Gunder, 1927
Entomol. News 38(5): 138, no. 11.

Original Combination: *Danaus menippe nivosus* ♂ nov. tr. form

Type Locality: "Jefferson Barracks, Missouri" [St. Louis County]

Types: "Holotype" in AMNH.

‡"alba" Scott, 1981

Papilio (n.s.) 1: 3.

Original Combination: *Danaus plexippus* form *alba*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

Subgenus **Anosia** Hübner, 1816

Verz. bekannt. Schmett. (1): 15-16. Type-species: *Papilio gilippus* Cramer, 1775, Uitl. Kapellen 1(3): 41, pl. 26, figs. E, F; (8): 153 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 113, no. 84.

- = ‡*Tasitia* Moore, 1883
Proc. Zool. Soc. Lond. 1883(2): 235. Type-species: *Papilio gilippus* Cramer, 1775, Uitl. Kapellen 1(3): 41, pl. 26, figs. E, F; (8): 153 (index), by original designation. A junior objective synonym of *Anosia* Hübner [1816].
- = ‡*Danaomorpha* Kremky, 1925
Annls. Zool. Mus. Polon. Hist. Nat. 4(3): 164, 167. Type-species: *Papilio gilippus* Cramer, 1775, Uitl. Kapellen 1(3): 41, pl. 26, figs. E, F; (8): 153 (index), by monotypy. A junior objective synonym of *Anosia* Hübner [1816].
- = ‡*Limnas* Hübner, [1806]
Tentamen: [1]. Type-species: *Papilio chrysippus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 471, no. 81, by monotypy.
Suppressed by I.C.Z.N. *Opinion* 97; *Opinion* 278 placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 78.
- = *Panlymnas* Bryk, 1937
Lepid. Cat. 78: 56. Type-species: *Papilio chrysippus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 471, no. 81, as a replacement name; proposed to replace *Limnas* Hübner, [1806], preoccupied (Code Articles 60.3, 67.8).

*601. **Danaus gilippus** (Cramer, 1775)

Uitl. Kapellen 1(3): 41, pl. 26, figs. E ♀ D, F ♀ V; (8): 153 (index).

Original

Combination: *Pap[ilio]. Dan[aus] festiv[us]. Gilippus*

Type Locality: "Rio de Janeyro...Brazil" "Rio Janéiro...Côte du Brasil"

Types: Type(s) probably lost.

d'Almeida (1944), Pap. avulsos Dept. Zool. Sec. Agr. (São Paulo) 4(3): 62, designated a "neotype," figured in (1939), Mem. Inst. Oswaldo Cruz 34: pl. 17, fig. 3. This designation is not in accordance with Code Articles 75.2 and 75.3.

- = ‡*vincedoxici* (Hübner, 1816)

- Verz. bekannt. Schmett. (1): 16, no. 87.
Original Combination: *Anosia Vincetoxici*
 Proposed as a replacement name for *Papilio gilippus*, erroneously thought preoccupied; a junior objective synonym of *gilippus*.
- = *vincetoxici* (Hübner, [1816])
 Samml. exot. Schmett. 1: pl. [23], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Limnas Vincetoxici*
Type Locality: Not stated; defined as “Brasilien” by Hemming (1937), Hübner 2: 97 (manuscript #21).
Types: Type(s) probably lost.
- = *manuja* (Escholtz, 1821)
In: Kotzebue, Endeck. Reise Süd-See 3 (appendix 5): 209, no. 13, pl. [7], figs. 13a ♂ D, 13b ♂ V.
Original Combination: *Idea Manuja*
Type Locality: “Brasilien”
Types: Location of type(s) not known.
- = ‡*vincetoxici* (Fabricius, 1938)
In: Bryk, Syst. Glossat.: 72, no. 11; cited Fabricius (1793), Entomol. Syst. 3(1): 52, no. 159, and J. E. Smith (1797), *in:* Smith & Abbot, Ins. Georgia 1: pl. 7.
Original Combination: *E[uploea]. Vincetoxici*
 Proposed as a replacement name for *Papilio gilippus*, based on a foodplant name; preoccupied by *Limnas vincetoxici* (Hübner, [1816]), and a junior objective synonym of *gilippus*.
- a. **Danaus gilippus berenice** (Cramer, 1779)
 Utl. Kapellen 3(18): 22, pl. 205, figs. E ♂ D, F ♂ V; (24): 174 (index).
Original
Combination: *Pap[ilio]. Nymph[alis]. Phaler[ata]. Berenice*
Type Locality: “Eiland Jamaika” “Jamaïque”
Types: Type(s) probably lost.
 d’Almeida (1944), Pap. avulsos Dept. Zool. Sec. Agr. (São Paulo) 4(3): 62, designated a “neotype,” figured in (1939), Mem. Inst. Oswaldo Cruz 34: pl. 15, fig. 4. This designation is not in accordance with Code Articles 75.2 and 75.3.
- b. **Danaus gilippus thersippus** (H. Bates, 1863)
 Proc. Zool. Soc. Lond. 1863(2): 243, no. 10.
Original Combination: *Danaüs Thersippus*
Type Locality: “Isthmus of Panama, in the low forest-country situated about ten miles from the railway terminus on the Gulf of Mexico”; holotype labeled “Lion Hill, Panama.”
Types: Holotype (#6453) in BMNH.
- = *strigosus* (H. Bates, 1864)
 Entomol. Mon. Mag. 1(2): 32-33, no. 14.
Original Combination: *Danaüs Strigosa*
Type Locality: “Guatemala...in the interior valleys and on the Pacific Coast”
Types: Syntypes (#6446-#6452) in BMNH.
- = *esperanza* Hoffmann, 1924
 Rev. Méx. Biol. 4(3): 69, fig. 1 ♂ D.

Original Combination: *Danais*

berenice var. *Esperanza*

Type Locality: "las montañas del Estado de Veracruz, que se encuentra en alturas de 1,400-1,500 metros...(cerro de San Nicolás, cerca de orizaba, Veracruz)"

Types: Holotype (#6,520) in AMNH.

This taxon seems to represent an individual form, but this is not expressly stated in the text.

= ‡"kerri" (J. A. Comstock, 1925)

Bull. South. Calif. Acad. Sci. 24(1): 3 (1925);

25(3): pl. 17, fig. 6 ♂ D (1926); figured by J. A.

Comstock (1927), Butterflies Calif.: pl. 17, fig. 6

♂ D..

Original Combination: *Danais*

berenice aberration *kerri*

Type Locality: "Blythe, California" [Riverside County]

Types: "Holotype" in LACM

= ‡"gilippina" (Hoffmann, 1940)

An. Inst. Biol. Univ. Méx. 11(1): 277-278, fig. 3 ♂

D, 4 ♂ V (holotype).

Original Combination: *Anosia*

berenice forma *gilippina*

Type Locality: "secas y calientes del Occidentale de México"

Types: "Syntypes" in AMNH.

***602. Danaus eresimus** (Cramer, 1777)

Uitl. Kapellen 2(13): 121-122, pl. 175, figs. G ♂ D, H ♂ V; (16): 148 (index).

Original

Combination: *Pap[ilio]. Dan[aus] Festiv[us]. Eresimus*

Type Locality: "Surinamen" "Suriname"

Types: Type(s) probably lost.

Calhoun (1996), Holarct. Lepid. 3(1): 7-18, suggested that subspecies of *D. eresimus* are undefinable in the United States.

= ‡*asclepidia* (Fabricius, 1938)

In: Bryk, Syst. Glossat.: 72, no. 9; cited Cramer

(1777), Uitl. Kapellen 2(13): 121-122, pl. 175, figs. G, H.

Original Combination: *E[uploea]. Asclepidea*

Proposed as a replacement name for *Papilio eresimus*, based on a foodplant name; a junior objective synonym of *eresimus*.

a. Danaus eresimus montezuma Talbot, 1943

Trans. R. Entomol. Soc. Lond. 93(1): 120.

Original Combination: [*Danaus eresimus*] *montezuma*

Type Locality: "Mexico: Misantla, Veragua" [Misantla, Veracruz]

Types: Holotype in BMNH.

= *ares* (d'Almeida, 1944)

Pap. avulsos Dept. Zool. Sec. Agr. (São Paulo) 4(3):

46-48, pl. 3, fig. 2 ♂ D (holotype).

Original Combination: [*Anosia*] *eresimus ares*

Type Locality: "Alto Amazonas" [Loreto Region, Peru]

Types: Holotype in UFPC.

‡"nephele" W. Forbes, [1944]
J. N. Y. Entomol. Soc. 51(4): 299.

Original Combination: [*Danaus eresimus*] *nephele*

This name was mentioned in the text without a description; a *nomen nudum*.

- b. **Danaus eresimus tethys** W. Forbes, [1944]
J. N. Y. Entomol. Soc. 51(4): 301-302.

Original Combination: *Danaus eresimus tethys*

Type Locality: "Fond Parisien, Haiti...alt. about 60 ft."

Types: Holotype in AMNH.

Subtribe **Euploeina** Moore, 1880

Lep. Ceylon 1(1): 1 (as "*Euploeinae*"). Type-genus: *Euploea* Fabricius, 1807, Mag. f. Insektenk. (Illiger) 6: 280. I.C.Z.N. *Opinion* 163 places *Euploea* on the *Official List of Generic Names in Zoology* as Name no. 611.

Genus **Lycorea** E. Doubleday, 1847

In: Gen. diurn. Lepid. (1)(9): pl. 16, fig. 1; (10): 105. Type-species: *Lycorea atergatis* E. Doubleday, 1847, *in*: Gen. diurn. Lepid. (1)(9): pl. 16, fig. 1; (10): 106 (= *Euiedes halia* Hübner, 1816, Verz. bekannt. Schmett. (1): 11, no. 31; subspecies), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 210, no. 650.

= ‡*Lycorella* Hemming, 1933

Entomol. 66(845): 222. Type-species: *Lycorea atergatis* E. Doubleday, 1847, *in*: Gen. diurn. Lepid. (1)(9): pl. 16, fig. 1; (10): 106 (= *Euiedes halia* Hübner, 1816, Verz. bekannt. Schmett. (1): 11, no. 31; subspecies), as a replacement name. Proposed to replace *Lycorea* E. Doubleday, [1847], erroneously thought preoccupied; a junior objective synonym of *Lycorea*.

= *Ituna* E. Doubleday, 1847

In: Gen. diurn. Lepid. (1)(9): pl. 17, fig. 1 1847; (12): 113-114. Type-species: *Ituna phenarete* E. Doubleday, 1847, *in*: Gen. diurn. Lepid. (1)(9): pl. 17, fig. 1; (12): 114, no. 2 (= *Papilio ilione* Cramer, 1775, Uitl. Kapellen 1(3): 42, pl. 26, figs. G, H; (8): 153 (index)), by monotypy.

*603. **Lycorea halia** (Hübner, 1816)

Verz. bekannt. Schmett. (1): 11, no. 31; cited *Papilio ceres* Cramer, 1776, Uitl. Kapellen 1(8): 141, pl. 90, fig. A; (8): 152 (index); figured by Hübner [1825], Samml. exot. Schmett. 2: pl. [3].

Original Combination: *E[ueides]*. *Halia*

Proposed to replace *Papilio ceres* Cramer, 1776, with the same data (Code Article 60.3).

= ‡*ceres* (Cramer, 1776)

Uitl. Kapellen 1(8): 141, pl. 90, fig. A ♂ D; (8): 152 (index).

Original Combination: *Pap[ilio]*. *Helicon[ius]*. *Ceres*

Type Locality: "Surinamen" "Suriname"

Types: Type(s) probably lost.

Preoccupied by *Papilio ceres* Fabricius, 1775, Syst. Entomol.: 504, no. 257. d'Almeida (1944), Pap. avulsos Dept. Zool. Sec. Agr. (São Paulo) 4(3): 62, designated a "neotype." This designation is not in accordance with Code Articles 75.2 and 75.3.

- a. **Lycorea halia demeter** C. Felder & R. Felder, 1865

Reise Novara Zool. (2): 352, no. 497.

Original Combination: *Lycorea Demeter*

Type Locality: "Cuba"

Types: Holotype probably in BMNH.

b. *Lycorea halia atergatis* E. Doubleday, 1847

In: Gen. diurn. Lepid. (1)(9): pl. 16, fig. 1 ♂ D; (10): 106, no. 4.

Original Combination: *Lycorea Atergatis*

Type Locality: "Venezuela"

Types: Syntype (#6809 ♂) in BMNH.

Tribe *Ithomiini* Godman & Salvin, 1879 (1878)

Biol. centr.-amer. Lepid. Rhop. 1(1): 6 (as "*Ithomiina*"). Type-genus: *Ithomia* Hübner, 1816, Verz. bekannt. Schmett. (1): 9. The name *Ithomiini* is junior to *Mechanitini* Bar, 1878, Ann. Soc. ent. Fr. (5)8(1): 12, 13, 24-25, however the use of *Mechanitina* over *Ithomiini* would upset current usage greatly. The ideal solution is to petition the Commission to suppress *Mechanitini* at any level where it competes directly with *Ithomiini*, leaving it available to represent a tribal or infra-tribal grouping. I treat these two names as if such an *Opinion* has been rendered.

Subtribe *Dircennina* d'Almeida, 1941

Pap. avulsos Dept. Zool. Sec. Agr. (São Paulo) 1(12): 79, 80 (as "*Dircennini*"). Type-genus: *Dircenna* E. Doubleday, [1847], *in:* Gen. diurn. Lepid. (1)(9): pl. 17, fig. 2; (13): 119-120.

Genus *Dircenna* E. Doubleday, [1847]

In: Gen. diurn. Lepid. (1)(9): pl. 17, fig. 2; (13): 119-120. Type-species: *Dircenna iambe* E. Doubleday, 1847, *in:* Gen. diurn. Lepid. 1(9): pl. 17, fig. 2; (13): 121, no. 1 (= *Ceratinia jemina* Geyer, 1837, *in:* Hübner, Zutr. Samml. exot. Schmett. 6: pl. [139], figs. 807-808; 6; synonym), by monotypy.

604. *Dircenna klugii* (Geyer, 1837)

In: Hübner, Zutr. Samml. exot. Schmett. 5: pl. [138], figs. 801 ♂ D, 802 ♂ V [1833]; [5], no. 401 (name given) (1837).

Original Combination: *Ceratinia Klugii*

Type Locality: "Mexico"

Types: Location of type(s) not known, probably lost.

Subfamily *Heliconiinae* Swainson, 1822

Zool. Illustr. [1](2)(18): pl. 92, unnumbered text (as "*Heliconiae*"). Type-genus: *Heliconius* Kluk, 1780, Zwierr. Hist. Nat. Pocz. Gospod. 4: 82-84, no. 143. I.C.Z.N. *Opinion* 382 placed *Heliconius* on the *Official List of Generic Names in Zoology* as name no. 923. I.C.Z.N. *Direction* 54 placed *Heliconiidae* Swainson, 1827, Phil. Mag. (2)1(3): 184, 185, 187 (as "*Heliconi*" "*Heliconidae*"); 185, 187, no. 5 (as "*Heliconidae*"), on the *Official List of Family-Group Names in Zoology* as name no. 117; the same *Direction* placed *Heliconidae*, an invalid original spelling of *Heliconiidae*, on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* as name no. 103. Koçak (1981), Priamus 1(2): 93-96, determined that Swainson's family-group name was based on *Heliconius* Latreille 1804, a homonym of *Heliconius* Kluk, 1802. Thus, the type genus is invalid because it is a junior homonym (Code Article 39); an application must be made to the I.C.Z.N. to correct the *Official List* (Code Article 79.5).

Tribe *Heliconiini* Swainson, 1822

Subtribe *Heliconiina* Swainson, 1822

Genus *Dione* Hübner, [1819]

Verz. bekannt. Schmett. (2): 31. Type-species: *Papilio juno* Cramer, 1779, Uitl. Kapellen 3(18): 38, pl. 215, figs. B, C; (24): 175 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 157, no. 343.

***605. *Dione moneta* Hübner, [1825]**

Samml. exot. Schmett. 2: 20, pl. [20], figs. 1 ♂ D, 2 ♂ V.

Original Combination: *Dione Moneta*

Type Locality: Not stated; suggested to be "South Brazil" by A. Hall (1921), Entomol. 54(703): 276.

Types: Location of type(s) not known, probably lost.

a. *Dione moneta poeyii* Butler, 1873

Ann. Mag. Nat. Hist. (4)12: 227, no. 28.

Original Combination: *D[ione]. Poeyii*

Type Locality: Not stated. N. Riley (1926), Entomol. 59(760): 244, determined that the description of this taxon was based on figures and text in E. Doubleday 1847, Gen. diurn. Lepid. (1)(13): pl. 22, fig. 1 ♂ D; (18): 154; lectotype from "Oaxaca, Mexico."

Types: Lectotype in BMNH, designated by Lamas (1998), Revta. peruana Entomol. 40: 113.

= *butleri* (Stichel, [1908])

In: Wytzman, Gen. Ins. 63: 19, no. 3b (nota 1); figured by Seitz (1912), Grossschmett. Erde 5(152): pl. 84e, figs. [1] ♂ V, [2] ♂ D.

Original Combination: *Dione moneta butleri*

Type Locality: "Colombia, Rio Magdal. sup....Ecuador, Balzapamba"

Types: Syntypes (#549, 620, 623) in BMNH; one of these figured by Ackery and Smiles (1976), Bull. Brit. Mus. (Nat. Hist.) Entomol. 32(5): pl. 1, fig. 9 ♂ D&V.

Genus *Agraulis* Boisduval & Le Conte, [1835]

Hist. Lépid. Amér. sept. 1(16): 142-145. Type-species: *Papilio vanillae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 482, no. 144, by monotypy.

***606. *Agraulis vanillae* (Linnaeus, 1758)**

Syst. Nat. (ed. 10) 1: 482, no. 144; cited Merian (1705), Ins. Surinam.: pl. 25, and Sloane (1725), Voy. Mad. Barb. Niev. St. Christ. Jam. 2: pl. 239, figs. 23, 24; figured by Clerck [1764], Icon. Ins. 2: pl. 40 ♂ D&V.

Original Combination: *P[apilio]. N[ymphalis]*.

[*Phaleratus*] *Vanillae*

Type Locality: "Americas"; defined as "Surinam" by Michener (1942), Am. Mus. Novit. (1215): 2; suggested to be "South America, probably Surinam" by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 391.

Types: Lectotype in UZIU, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 391.

= *passiflorae* (Fabricius, 1793)

Entomol. Syst. 3(1): 60-61, no. 189; cited *Papilio vanillae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 482, no. 144, and Clerck (1764), Icon. Ins. 2: pl. 40, fig. 2.

Original Combination: *P[apilio]. P[estivi]. Passiflorae*

Type Locality: "Americas"

Types: Type(s) probably lost.

a. *Agraulis vanillae nigrrior* Michener, 1942

Am. Mus. Novit. (1215): 1-2 (in part), no. 2 (key), 7.

Original Combination: *Agraulis vanillae nigrior*

Type Locality: "Upper Matecumbe Key, Florida"
[Monroe County]

Types: Holotype in AMNH.

b. *Agraulis vanillae incarnata* (N. Riley, 1926)

Entomol. 59(760): 243-244.

Original Combination: *D[ione] vanillae incarnata*

Type Locality: "near Durango City, Mexico" [Durango]

Types: Lectotype (#Rh10118) in BMNH, designated by Michener (1942), Am. Mus. Novit. (1215): 7; figured by Ackery and Smiles (1976), Bull. Brit. Mus. (Nat. Hist.) Entomol. 32(5): pl. 1, fig. 10 ♂ D&V.

= ‡"comstocki" (Gunder, 1925)

Entomol. News 36(1): 5-6, no. 9, pl. 1, fig. T ♂ D.

Original Combination: *Dione vanillae* ab.

♂ *comstocki*

Type Locality: "Monrovia, Los Angeles County, California"

Types: "Holotype" In AMNH.

= ‡"fumosus" (Gunder, 1927)

Entomol. News 38(5): 137, no. 9, pl. 2, fig. 9 ♀ D (holotype).

Original Combination: *Dione vanillae insularis fumosus* ♀ nov. tr. form

Type Locality: "Los Angeles, Los Angeles County, California"

Types: "Holotype" in AMNH.

= ‡"margineapertus" (Gunder, 1928)

Can. Entomol. 60(7): 163, pl. A, fig. 3.

Original Combination: *Dione vanillae* form norm. *incarnata* tr. f. *margineapertus*

Type Locality: "Los Angeles" [Los Angeles County, California]

Types: "Holotype" in AMNH.

= ‡"hewlettae" (Gunder, 1930)

Bull. Brooklyn Entomol. Soc. 24(5): 327-328, pl. 31, fig. 7 ♀ D&V (holotype).

Original Combination: *Dione vanillae* form normal *incarnata* tr. f. *hewlettae*

Type Locality: "Ontario, Riverside Co., Calif." [California]

Types: "Holotype" in AMNH.

Genus *Dryas* Hübner, [1807]

Samml. exot. Schmett. 1: pls. [43], [44]. Type-species: *Papilio iulia* Fabricius, 1775, Syst. Entomol.: 509-510, no. 281, by designation of Hemming (1934), Entomol. 66(844): 197.

= *Alcionea* Rafinesque, 1815

Analyse Nat.: 127, no. 19. Type-species: *Papilio alcionea* Cramer, 1779, Uitl. Kapellen 3(18): 38, pl. 215, figs. A; (24): 173 (index) (= *Papilio iulia* Fabricius, 1775, Syst. Entomol.: 509-510, no. 281; subspecies), by tautonymy.

= ‡*Colaenis* Hübner, [1819]

Verz. bekannt. Schmett. (2): 31-32, no. 5. Type-species: *Papilio iulia* Fabricius, 1775, Syst. Entomol.: 509-510, no. 281, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci. 10(2): 146, no. 280. A junior objective synonym of *Dryas*.

- *607. *Dryas iulia*** (Fabricius, 1775)
Syst. Entomol.: 509-510, no. 281.
Original
Combination: *P[apilio]. N[ymphalis]. P[halerata]. Iulia*
Type Locality: "America"
Types: Lectotype in BMNH, designated by Wetherbee (1991), Two Cent. Expl. Hispaniola Butterflies: 18.
= *juncta* W. Comstock, 1944
Sci. Surv. Puerto Rico & Virgin Is. 12(4): 441-443, fig. 3 venation, pl. 6, fig. 1 ♂ D.
Original Combination: *Dryas iulia juncta*
Type Locality: "Adjuntas, Porto Rico" [Puerto Rico]
Types: Holotype in AMNH.
- a. *Dryas iulia largo*** Clench, 1975
J. Lepid. Soc. 29(4): 230.
Original Combination: *Dryas iulia largo*
Type Locality: "Key Largo, Monroe Co., Florida"
Types: Holotype in CMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 71, fig. 1 ♂ D.
- b. *Dryas iulia moderata*** (N. Riley, 1926)
Entomol. 59(760): 241-242.
Original Combination: *C[olaenis]. iulia moderata*
Riley adopted *Colaenis iulia delila* form *moderata* Stichel, [1908], to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).
= ‡"moderata" (Stichel, [1908])
In: Wytsman, Gen. Ins. 63: 12, in no. 1c (nota 3).
Original Combination: *Colaenis iulia delila* form *moderata*
Type Locality: "Honduras"
Types: "Holotype" (#525) in ZMHB.

Genus *Dryadula* Michener, 1942

Am. Mus. Novit. (1197): 1, no. 6, 4, figs. 5 FW, 10 ♂ genitalia. Type-species: *Papilio phaetusa* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 478, no. 123, by original designation.

- 608. *Dryadula phaetusa*** (Linnaeus, 1758)
Syst. Nat. (ed. 10) 1: 478, no. 123; cited Rösel von Rosenhof (1761), Der monat. Insect.-Belustig. 4: pl. 2, fig. 1.
Original Combination: *P[apilio]. N[ymphalis].*
[Phaleratus] Phaetusa
Type Locality: "Indiis"
Types: Lectotype in UZIU (#1946), designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 361.
= *stupenda* (N. Riley, 1926)
Entomol. 59(760): 240.
Original Combination: *[Colaenis phaetusa] stupenda*
Riley adopted *Colaenis phaetusa* forma *stupenda* Stichel, [1908], to represent a subspecies-level taxon (for Central American populations), with the same data (Code Articles 10.2, 45.5.1); it was treated as a synonym of *D. phaetusa* by Lamas *et al.* (2004), Atl. Neotrop. Lepid. Chcklst. Part 4A: 265.
= ‡"stupenda" (Stichel, [1908])

In: Wytsman, Gen. Ins. 63: 13, no. 2α (nota 1).

Original

Combination: *C[olaenis]. phaetusa* forma *stupenda*

Type Locality: "Panama (Bugaba)"

Types: "Holotype" (#533) in BMNH; figured by Ackery and Smiles (1976), Bull. Brit. Mus. (Nat. Hist.) Entomol. 32(5): pl. 1, fig. 3 ♂ D&V.

The text clearly indicates that this taxon was described as an individual variant.

= ‡"deleta" (Stichel, [1908])

In: Wytsman, Gen. Ins. 63: 13, no. 2β (nota 2).

Original

Combination: *C[olaenis]. phaetusa* forma *deleta*

Type Locality: "Paraguay"; holotype from "Paraguay, Nuev. Germania."

Types: "Holotype" (#532) in BMNH; figured by Ackery and Smiles (1976), Bull. Brit. Mus. (Nat. Hist.) Entomol. 32(5): pl. 1, fig. 4 ♂ D&V.

The text clearly indicates that this taxon was described as an individual variant.

= ‡"lutulenta" (Stichel, [1908])

In: Wytsman, Gen. Ins. 63: 13, no. 2γ.

Original Combination: *C[olaenis]. phaetusa* forma ♀ *lutulenta*

Type Locality: "Paraguay"; holotype from "Paraguay, Nuev. Germania."

Types: "Holotype" (#532) in BMNH; figured by Ackery and Smiles (1976), Bull. Brit. Mus. (Nat. Hist.) Entomol. 32(5): pl. 1, fig. 5 ♀ D&V.

Genus *Eueides* Hübner, 1816

Verz. bekannt. Schmett. (1): 11. Type-species: *Nereis dianasa* Hübner, [1806], Samml. exot. Schmett. 1: [17], [18], pl. [8], figs. 1, 2, 3, 4, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 169-170, no. 415.

= ‡*Evides* Agassiz, 1847

Nomencl. Zool. (4to ed.)(12)(index univ.): 147, 153. An unjustified emendation of *Eueides* Hübner, 1816.

= ‡*Mechanitis* [Illiger], 1807

Allg. Lit.-Zeit. 2(303): 1180. Type-species: *Nereis dianasa* Hübner, [1806], Samml. exot. Schmett. 1: [9], [10], [17], [18], pl. [8], figs. 1-4, by designation of Hemming (1964), Annot. Lepid. (4): 125. I.C.Z.N. *Opinion* 232 suppressed this name and placed it on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 43.

= *Semelia* E. Doubleday, [1845]

List Spec. Lepid. Brit. Mus. 1: 64. Type-species: *Cethosia vibilia* Godart, 1819, Enc. méth. 9(Ins.)(1): (242), 245, no. 6, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 267, no. 961.

= ‡*Semelia* Erichson, [1849]

In: Schomburgk, Reisen Brit.-Guiana 3: 596. Type-species: *Papilio lybia* Fabricius, 1775, Syst. Entomol.: 460, no. 73, by monotypy. Preoccupied by *Semelia* E. Doubleday, 1845, List Spec. Lepid. Brit. Mus. 1: 64.

= ‡*Semelia* Boisduval, 1870

Consid. Lépid. Guat.: 35. Type-species: *Cethosia vibilia* Godart, 1819, *in*: Enc. méth. 9(Ins.)(1): (242), 245, by

monotypy. Preoccupied by *Semelia* E. Doubleday, 1845, List Spec. Lepid. Brit. Mus. 1: 64, and a junior objective synonym of that name.

***609. Eueides isabella** (Stoll, 1781)

Uitl. Kapellen 4(30): 117, pl. 350, figs. C ♂ V, D ♂ D; (34): 250 (index).

Original Combination: *Papilio*. *Helicon*[*ius*]. *Isabella*

Type Locality: "Surinamen" "Suriname"

Types: Type(s) probably lost.

a. Eueides isabella eva (Fabricius, 1793)

Entomol. Syst. 3(1): 162, no. 501; cited Jones' Icones 2: pl. 20, fig. 1.

Original Combination: *P[apilio] H[eliconi]*. *Eva*

Type Locality: "Surinami" probably in error; suggested to be "Panama" by Lamas (1973), Revta. bras. Entomol. 17(19): 128.

Types: Type(s) probably lost.

Lamas (1973), Revta. bras. Entomol. 17(19): 127-130, detailed the use of this name over *zorcaon*, based on his examination of copies of William Jones' unpublished drawings in the BMNH.

= *zorcaon* Reakirt, 1866

Proc. Acad. Nat. Sci. Philad. 18(3): 243, no. 12.

Original Combination: *Eueides zorcaon*

Type Locality: "Mexico (near Vera Cruz)...Honduras, Guatemala"

Types: Syntypes in FMNH.

= ‡"adusta" Stichel, 1903

Berl. Entomol. Z. 48(1/2): 11, no. 3ba.

Original Combination: [*Eueides cleobaea zorcaon*] ab. nov. *adusta*

Type Locality: "Chiriqui, Honduras"; syntypes from "Panama, Bugaba; Honduras; Mexico, Vera Cruz"

Types: "Syntypes" in BMNH; a possible syntype figured by Seitz (1912), *in*: Seitz, Grossschmett. Erde 5(151): pl. 80g, [2] ♂ D; a syntype was figured by Ackery and Smiles (1976), Bull. Brit. Mus. (Nat. Hist.) Entomol. 32(5): pl. 5, fig. 48 ♀ D&V.

Genus Heliconius Kluk, 1780

Zwierz. Hist. Nat. Pocz. Gospod. 4: 82-84, no. 143. Type-species: *Papilio charithonia* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 757, no. 65, by designation of Hemming (1933), Entomol. 66(845): 223.

I.C.Z.N. *Opinion* 382 placed this name on the *Official List of Generic Names in Zoology* as name no. 923.

= ‡*Heliconius* Latreille, [1804]

Nouv. Dict. Hist. Nat. 24(tab.): 185, 199. Type-species: *Papilio charithonia* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 757, no. 65, by designation of Hemming (1933), Entomol. 66(844): 198. A junior objective synonym of *Heliconius* Kluk, 1780. I.C.Z.N. *Opinion* 382 suppressed this name and placed it on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 384.

= ‡*Heliconia* Latreille, 1818

- Nouv. Dict. Hist. Nat. appl. Arts (2nd ed.) 24: 509; an unjustified emendation of *Heliconius* Kluk, 1780. I.C.Z.N. *Opinion* 382 suppressed this name and placed it on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 385 (credited to Godart, 1819).
- = ‡*Migonitis* Hübner, 1816
Verz. bekannt. Schmett. (1): 12. Type-species: *Papilio erato* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467, no. 54, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 218-219, no. 698. Preoccupied by *Migonitis* Rafinesque, 1815, Analyse Nat.: 147.
 - = *Sunias* Hübner, 1816
Verz. bekannt. Schmett. (1): 12. Type-species: *Papilio melpomene* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467, no. 55, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 271, no. 990.
 - = ‡*Apostraphia* Hübner, 1816
Verz. bekannt. Schmett. (1): 13. Type-species: *Papilio charithonia* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 757, no. 65, designated by Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 116, no. 106. A junior objective synonym of *Heliconius* Kluk, 1780. I.C.Z.N. *Opinion* 381 suppressed this name and placed it on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 386.
 - = ‡*Sicyonia* Hübner, 1816
Verz. bekannt. Schmett. (1): 13. Type-species: *Papilio rhea* Cramer, 1775, Uitl. Kapellen 1(5): 85, pl. 54, figs. C, D; (8): 154 (index) (= *Papilio sara* Fabricius, 1793, Entomol. Syst. 3(1): 167), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 268, no. 967. I.C.Z.N. *Opinion* 382 suppressed this name and placed it on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 380.
 - = ‡*Sycionia* Hübner, [1826]
Verz. bekannt. Schmett. Anzeiger: 7. An unjustified emendation of *Sicyonia* Hübner, [1816]. I.C.Z.N. *Opinion* 382 suppressed this name and placed it on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 381.
 - = *Ajantis* Hübner, 1816
Verz. bekannt. Schmett. (1): 13-14. Type-species: *Papilio sapho* Drury, 1782, Ill. Nat. Hist. 3: 54, index, pl. 38, fig. 4, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 106, no. 43.
 - = *Laparus* Billberg, 1820
Enum. Ins. Mus. Billb.: 77. Type-species: *Papilio doris* Linnaeus, 1771, Mant. Plant. (2nd ed.): 356, by designation of Hemming, 1934 Entomol. 67(849): 37.
 - = *Crenis* Hübner, 1821
Index exot. Lep.: [2]. Type-species: *Crenis brylle* Hübner, 1821, Index exot. Lep.: [2] (= *Nereis delila* Hübner, [1813], Samml. exot. Schmett. 1: pl. [13]), by monotypy.
 - = ‡*Phlogris* Hübner, [1825]
Samml. exot. Schmett. 2: pl. [5]. Type-species: *Papilio melpomene* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467, no. 55, by monotypy. A junior objective synonym of *Sunias*.
 - = ‡*Blanchardia* Buchecker, [1880]
Syst. Entomol. 2: pl. 51. Type-species: *Heliconia* [sic!] *choarina* Hewitson, 1872, Entomol. Mon. Mag. 9(100): 83 (= *Heliconia* [sic!] *hecuba* Hewitson, [1858], Ill. exot. Butterflies 2(25): [25], pl. Tithorea &

Heliconia IV, fig. 11), by monotypy. Preoccupied by *Blanchardia* Castelnau (1875), Philad. Cent. Exhib. 1876 Sect. 7(2): 47.

***610. *Heliconius charithonia* (Linnaeus, 1767)**

Syst. Nat. (ed. 12) 1(2): 757, no. 65; index, no. 65 (as *charitonia*); cited Sloane (1725), Voy. Mad. Barb. Niev. St. Christ. Jam. 2: pl. 239, figs. 15, 16, and G. Edwards (1747), Nat. Hist. Birds 2: 80, pl. 80.

Original Combination: *P[apilio]. H[eliconius]. Charithonia*

Type Locality: "America"; suggested to be "one of the Virgin Islands" by W. Comstock (1944), Sci. Surv. Puerto Rico & Virgin Is. 12(4): 438-439; further defined as "the island of St. Thomas, Virgin Islands" by Comstock and F. Brown (1950), Am. Mus. Novit. (1467): 10. [United States Virgin Islands]

Types: Lectotype in LSUK, designated by W. Comstock and F. Brown (1950), Am. Mus. Novit. (1467): 11, fig. 2 ♂ D.

I.C.Z.N. *Opinion* 382 placed this name (spelled *charithonia*) on the *Official List of Specific Names in Zoology* as name no. 616. W. Comstock and F. Brown (1950), Am. Mus. Novit. (1467): 1-2, selected the

spelling *charithonia* over *charithonia* as first revisers, but the *Official List* supercedes that action.

a. *Heliconius charithonia tuckeri* W. Comstock & F. Brown, 1950

Am. Mus. Novit. (1467): 13, no. F, 15-16, fig. 3, no. F ♂ D.

Original Combination: *Heliconius charitoniuss tuckeri*

Type Locality: "Winter Park, Florida" [Orange County]

Types: Holotype in AMNH.

b. *Heliconius charithonia vazquezae* W. Comstock & F. Brown, 1950

Am. Mus. Novit. (1467): 13, no. 6, 16, fig. 3, no. G ♂ D.

Original Combination: *Heliconius charitoniuss vazquezae*

Type Locality: "Campeche, Mexico"

Types: Holotype in AMNH.

***611. *Heliconius erato* (Linnaeus, 1758)**

Syst. Nat. (ed. 10) 1: 467, no. 54.

Original Combination: *P[apilio]. H[eliconius]. Erato*

Type Locality: "Indiis"; neotype from "Berg, en Dal, Surinam."

Types: Neotype in BMNH, designated by I.C.Z.N. *Opinion* 1386.

Opinion 1386 addressed this taxon and the confusion between it and *Heliconius doris* (Linnaeus, 1771); the name *erato* was placed on the *Official List of Specific Names in Zoology*, no number yet designated. Most of the Neotropical synonymy has been omitted.

= *vesta* (Cramer, 1777)

Uitl. Kapellen 2(10): 33-34, pl. 119, fig. A ♂ D; (16): 151 (index).

Original Combination: *Pap[ilio]. Hel[iconius]. Vesta*

Type Locality: "Surinamen" "Suriname"

Types: Type(s) probably lost.

= *erythrea* (Cramer, 1777)

Uitl. Kapellen 2(16): 140-141, pl. 189, fig. A ♂ D; (16): 148 (index).

Original Combination: *Pap[ilio]. Hel[iconius]. Erythrea*

Type Locality: "Surinamen" "Suriname"

Types: Type(s) probably lost.

- = *andremona* (Cramer, 1780)
Uitl. Kapellen 4(25): 16, pl. 297, fig. A ♂ D; (34): 247 (index).

Original

Combination: *Pap[ilio]. Hel[iconius]. Andremona*

Type Locality: "Surinamen" "Suriname"

Types: Type(s) probably lost.

- = *udalrica* (Cramer, 1780)
Uitl. Kapellen 4(25): 16, pl. 297, fig. B ♂ D; (34): 252 (index).

Original Combination: *Pap[ilio]. Hel[iconius]. Udalrica*

Type Locality: "Surinamen" "Suriname"

Types: Type(s) probably lost.

- = *cynisca* (Godart, 1819)
Ency. méth. 9(Ins.)(1): (203), 205 no. 8.

Original Combination: *Heliconia Cynisca*

Type Locality: "Guyane"

Types: Location of type(s) not known.

- a. ***Heliconius erato petiverana*** (E. Doubleday, 1847)
In: Gen. diurn. Lepid. (1)(10): 103, no. 18; cited Petiver (1702), *Gazophylacium*: pl. 4, fig. 2.

Original Combination: *Hel[iconia]. Petiverana*

Type Locality: "Mexico, Honduras"; syntype from "Mexico."

Types: Syntype in BMNH; figured by Ackery and Smiles (1976), *Bull. Brit. Mus. (Nat. Hist.) Entomol.* 32(5): pl. 29, fig. 292 ♂ D&V.

- = *mexicana* Boisduval, 1870
Consid. Lépid. Guat.: 28; cited *Heliconia demophoon* Ménétriés, 1855, *Enum. corp. anim.* (1): 86, no. 331-332, pl. 2, fig. 4, and Petiver (1702), *Gazophylacium*: pl. 4, fig. 2.

Original Combination: *Heliconia Mexicana*

Type Locality: "Mexique et à Honduras"

Types: Petiver's figure might be considered to represent a syntype; if extant, the specimen(s) upon which the figure was based might be in BMNH or MNHP.

Tribe **Argynnini** Swainson, 1833

Zool. Illustr. (2)3(29): pl. 136, unnumbered text (as "Argynninae"). Type-genus: *Argynnis* [Fabricius], 1807, *in:* Illiger, *Mag. f. Insektenk.* 6: 287. I.C.Z.N. *Direction* 99 placed Argynnidae Duponchel, 1844, on the *Official List of Family-group Names in Zoology* as name no. 228, placed Argynnidae Aurivillius, [1911], on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 266. I.C.Z.N. *Direction* 118 corrected the literature citation as above. I.C.Z.N. *Opinion* 161 placed *Argynnis* on the *Official List of Generic Names in Zoology* as name no. 609.

Subtribe **Euptoietina** Simonsen, 2006

Biol. J. Linn. Soc. 89(4): 648, figs. 8L, 8M, 11L, 11M, 15Oo, 15Pp, 21A, 21B, 22W, 23W, 32C, 32D.
Type-genus: *Euptoietia* E. Doubleday, 1848, *in:* Gen. diurn. Lepid. (1)(20): 169-170.

Genus **Euptoietia** E. Doubleday, 1848

In: Gen. diurn. Lepid. (1)(20): 169-170. Type-species: *Papilio claudia* Cramer, 1775, Uitl. Kapellen 1(6): 109, pl. 69, figs. E, F; (8): 152 (index), by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 43.

- *612. Euptoieta claudia** (Cramer, 1775)
 Uitl. Kapellen 1(6): 109, pl. 69, figs. E ♂ D, F ♂ V; (8): 152 (index).
Original
Combination: *Pap[ilio]. Nymph[alis]. Phalera[a]. Claudia*
Type Locality: "Jamaika" "Jamaïque"
Types: Type(s) probably lost.
- = *daunius* (Herbst, 1798)
In: Jablonsky, Natursyst. Ins., Schmett. 9: 184-185, no. 11, pl. 256, figs. 1, 2.
Original Combination: *Papilio Daunius*
Type Locality: "Ostindien" [East Indies]
Types: Type(s) probably lost.
- = ‡*clausius* (Herbst, 1798)
In: Jablonsky, Natursyst. Ins., Schmett. 9: 189-190, no. 14, pl. 257, figs. 3, 4; cited *Papilio claudia* Cramer, 1775.
Original Combination: *Papilio Clausius*
 Proposed to replace *Papilio claudia* Cramer, 1775, erroneously thought to be preoccupied; a junior objective synonym of *Papilio claudia*.
- = ‡"dodgei" Gunder, 1927
 Entomol. News 38(5): 135-136, no. 6, pl. 2, fig. 6 ♀ D (holotype).
Original Combination: *Euptoieta claudia dodgei* ♀ nov. tr. form
Type Locality: "near Scribner, Dodge County, Nebraska"
Types: "Holotype" possibly in CAS.
- = ‡"fumosa" W. D. Field, 1936
 J. Entomol. & Zool. 28(2): 22-23.
Original Combination: *Euptoieta claudia* tr. f. *fumosa*
Type Locality: "Hatfield, Ark." [Polk County, Arkansas]
Types: "Holotype" probably in USNM.
- = ‡"albaclaudia" W. D. Field, 1936
 J. Entomol. & Zool. 28(2): 23.
Original Combination: *Euptoieta claudia* tr. f. *albaclaudia*
Type Locality: "Miami, Fl." [Miami-Dade County, Florida]
Types: "Holotype" in USNM.
- ‡"thais" (E. Doubleday, 1848)
In: Gen. diurn. Lepid. (1)(20): 170.
Original Combination: *P[apilio]. Thais*
 This name was listed in the synonymy of *claudia* without a description or indication; a *nomen nudum*.
 ‡"mariamne" Scudder, 1889
 Butterflies E. U. S. & Can. 1(4): 519.
Original Combination: [*Euptoieta claudia*] = *Papilio mariamne* Abb.

This name was listed in the synonymy of *claudia* without a description or indication; a *nomen nudum*.

***613. Euptoieta hegesia** (Cramer, 1779)

Uitl. Kapellen 3(18): 30, pl. 209, figs. E ♂ D, F ♂ V; 3(24): 175 (index).

Original

Combination: *Pap[ilio]. Nymph[alis]. Pha[erata]. Hegesia*

Type Locality: "Nord-Amerika, en Nieuwjork, en op Eiland Jamaïka" "l'Amerique septentrionale, à la Nouvelle-York, & dans l'Isle de la Jamaïque"; neotype from "Montego Bay, Jamaica."

Types: Neotype in AMNH, designated by W. Comstock (1944), Sci. Surv. Puerto Rico & Virgin Is. 12(4): 445. It is possible that syntypes may exist in BMNH.

= *columbina* (Fabricius, 1793)

Entomol. Syst. 3(1): 148, no. 453; cited Jones' Icones 5: pl. 7, fig. 2.

Original

Combination: *P[apilio]. N[ymphales]. Columbina*

Type Locality: "America"

Types: Syntypes include the specimen figured in unpublished plates by William Jones.

a. Euptoieta hegesia meridiania Stichel, 1938

Lepid. Cat. 86: 111; cited *Brenthis claudia* (*sensu* Geyer (1837), Zutr. Samml. exot. Schmett. 5: 11, pl. [143], figs. 831, 832).

Original Combination: [*Euptoieta*] *h[egesia] meridiania*

Type Locality: "Süd-Brasilien (typ.: Espirito Santo)" [Espirito Santo, Brazil]

Types: Type(s) possibly in BMNH or lost.

= *hoffmanni* W. Comstock, 1944

Sci. Surv. Puerto Rico & Virgin Is. 12(4): 446, note 1, fig. 6 FW marking.

Original Combination: *Euptoieta hegesia hoffmanni*

Type Locality: "Mexico...Escuiñapa, Sinaloa"

Types: Holotype in AMNH.

Subtribe Boloriina B. Warren, dos Passos & Grey, 1946

Proc. R. Entomol. Soc. Lond. (B) 15(5/6): 72 (as "Boloriidi"). Type-genus: *Boloria* Moore, 1900, Lep. Ind. 4(48): 243.

Genus Boloria Moore, 1900

Lepid. Ind. 4(48): 243-244. Type-species: *Papilio pales* [Denis & Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 177, no. 8, by original designation. The genus-level synonymy adopted herein is derived from Grey (1989), J. Lepid. Soc. 43(1): 2, Aubert *et al.* (1996), C. R. Acad. Sci. (Ser. 3) Sci. Vie 319(7): 647-651, Simonsen (2005), Syst. Entomol. 30(4): 653-665, and Simonsen *et al.* (2010), Syst. & Biodivers. 8(4): 513- 529.

Subgenus Boloria Moore, 1900

= *Smoljana* Slivov, 1995

Acta Zool. Bulg. 48: 62-63, fig. 1. Type-species: *Boloria* (*Smoljana*) *rhodopensis* Slivov, 1995, Acta Zool. Bulg. 48: 63-65, figs. 2(1, 2, 3, 3a, 4, 5), 4(1, 2, 3, 4, 5, 6) (= *Argynnis pales* var. *balcanica*, Rebel, 1903, Annln. naturh. Mus. Wien 18: 170), by original designation.

614. **Boloria alaskensis** (W. Holland, 1900)
- a. **Boloria alaskensis alaskensis** (W. Holland, 1900)
Entomol. News 11(3): 383, no. 6.
Original Combination: *B[renthis] pales* var. *alaskensis*
Type Locality: "mountains between Forty-Mile and Mission Creeks" [Alaska]
Types: Holotype in CMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 55, fig. 24, ♂ D. Crosson du Cormier (1977), Alexanor 10(1): 35-47, detailed the separation of this species from *B. napaea* (Hoffmansegg, 1804) in: Illiger, Mag. f. Insektenk. 3(3): 196. This arrangement was corroborated by Dubatolov (1992), Vestnik Zoologii 1992(6): 40-41, Kosterin (2000), Far East Entomol. 86(1): 1-10, and Gorbunov (2001), Butterflies Russia Class.: 201-202.
= *reiffi* Reuss, 1925
Int. Entomol. Z. 19(36): cols. 279-280.
Original Combination: *Boloria reiffi*
Type Locality: "Britisch-Columbien" [British Columbia]
Types: Syntypes in Reuss collection.
Pike (1981), J. Res. Lepid. 18(3): 157, suggested that this may be a subspecies-level taxon.
= ‡"nearctica" Verity, 1932
Dtsche. Entomol. Z. "Iris" 46(3): 104, 108; cited Lehmann (1913), in: Seitz, Grossschmett. Erde 5(173): 424.
Original Combination: [*Boloria pales arsilache*] race *nearctica*
Type Locality: "north-eastern Alaska (69° 40' N. Lat. and 141°W. Long.)"
Types: Location of type(s) not known.
- b. **Boloria alaskensis halli** Klots, 1940
Am. Mus. Novit. (1054): 1-4.
Original Combination: *Boloria pales halli*
Type Locality: "vicinity of Green River Pass, Wind River Range, Sublette Co., Wyoming"
Types: Holotype in AMNH.

Subgenus **Procllossiana** Reuss, 1926

Dtsche. Entomol. Z. 1926(1): 69. Type-species: *Papilio aphirape* Hübner, [1800], Samml. Europ. Schmett. 1: pl. 5, figs. 23, 24, 25 (= *Papilio eunomia* Esper, 1800, Die Schmett. 1(suppl.)(1)(8-9): 94, pl. 110 (Cont. 65), fig. 5), by original designation.

- *615. **Boloria eunomia** (Esper, 1800)
Die Schmett. 1(suppl.)(1)(8/9): 94, pl. 110 (Cont. 65), fig. 5 ♂ D&V.
Original Combination: *Pap[ilio]. Nymph[alis]. pha[erata]. Eunomia*
Type Locality: "Königsberg in Preussen" [Kaliningrad, Kaliningrad Oblast, Russia]
Types: Location of type(s) not known, probably lost.
= *aphirape* (Hübner, [1800])
Samml. Europ. Schmett. 1: pl. 5, figs. 23 ♂ D, 24 ♂ V, 25 ♀ D [1800]; 8, no. 1 [1806].
Original Combination: [*Papilio*] *Aphirape*
Type Locality: 'Schwaben' [Bavaria, Germany]

- Types:** Type(s) probably lost.
 = *tomyris* (Herbst, 1800)
In: Jablonsky, Natursyst. Ins. Schmett. 10: 102-104, no. 41, pl. 270, figs. 6 ♀ D, 7 ♀ V.
Original Combination: *Papilio Tomyris*
Type Locality: "Preussen" [Northern Germany and Poland]
Types: Type(s) probably lost.
- a. ***Boloria eunomia tricularis*** (Hübner, [1821])
 Samml. exot. Schmett. 2: pl. [19], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V; [1] (index).
Original Combination: *Argynnis Tricularis*
Type Locality: Not stated; listed as "Labrador" by W. F. Kirby (1908), *in:* P. Wytsman, Fac. ed. Hübner Samml. exot. Schmett. 3(addit. notes): 17; suggested to be "Moravian missionaries in Labrador" by W. Holland (1928), Ann. Carnegie Mus. 19(1): 38-39, no. 5, stated to be "Labrador" by Hemming (1937), Hübner 2: 123 (manuscript #36); subsequently defined as "Nain, Labrador, Canada" by Pike (1981), J. Res. Lepid. 18(3): 160. [Newfoundland and Labrador]
Types: Type(s) probably lost.
 = *lais* (Scudder, 1875)
 Proc. Boston Soc. Nat. Hist. 17(3): [294]-296.
Original Combination: *Arg[ynnis]. Lais*
Type Locality: "Caribou Island, Straits of Belle Isle, Labrador...also...at Mackenzie River...Colorado"
 This name was listed in the synonymy of *Argynnis tricularis* Hübner, [1821], but not described; it was a *nomen nudum* until the name *helenia* was proposed to replace *Argynnis lais* W. H. Edwards, 1884, by dos Passos and Grey (1957), J. N. Y. Entomol. Soc. 63: 95-96. This action made *Argynnis lais* Scudder, 1875, available (Code Article 11.6.1).
- b. ***Boloria eunomia dawsoni*** (W. Barnes & McDunnough, 1916)
 Can. Entomol. 48(7): 222-223.
Original Combination: *Brenthis apherape dawsoni*
Type Locality: "Hymers, Ont." [Ontario]
Types: Syntypes in USNM and LACM; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 56, figs. 11 ♂ D, 12 ♀ D.
 = ♀ "harperi" (Gunder, 1934)
 Can. Entomol. 66(6): 127.
Original Combination: *Brenthis apherape dawsoni* tr. f. *harperi*
Type Locality: "Churchill, Man., Canada" [Manitoba]
Types: Holotype in CAS.
- c. ***Boloria eunomia nichollae*** (W. Barnes & Benjamin, 1926)
 Bull. South. Calif. Acad. Sci. 25(3): 92, no. 188d.
Original Combination: *Brenthis apherape* race *nichollae*
Type Locality: "Rocky Mts."; Nicholl (1906), 36th Ann. Rept. Entomol. Soc. Ont. (1905): 72 defined the region as "Mt. Assiniboine...11,800 feet...just west of the Divide...the southernmost outlier of the glacier fields of the northern Rockies"; suggested to be "near the

Columbia Ice Fields" by Pike (1981), J. Res. Lepid. 18(3): 157-158. [British Columbia]

Types: Holotype in USNM; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 60, fig. 14 ♂ D (holotype), 15 ♀ D (paratype).

Ferris and Groothuis (1971), J. Res. Lepid. 9(4): 243, discussed this taxon and its synonymy.

d. *Boloria eunomia denali* (Klots, 1940)

J. N. Y. Entomol. Soc. 48(4): 413-414.

Original Combination: *Brenthis (Clossiana) aphirape denali*

Type Locality: "McKinley National Park" [Denali National Park, Alaska]

Types: Holotype in AMNH.

e. *Boloria eunomia ursadentis* Ferris & Groothuis, 1971

J. Res. Lepid. 9(4): 245-247, figs. 4 ♂ D, 5 ♀ D, 6 ♂ V, 7 ♀ V, 8 ♀ V (aberrant), 9 ♀ D.

Original Combination: *Boloria eunomia ursadentis*

Type Locality: "Beartooth Pass, 1/2 mile S. of Montana-Wyoming border, Park Co., Wyoming"

Types: Holotype in MGCL.

f. *Boloria eunomia laddi* (Klots, 1940)

Am. Mus. Novit. (1054): 4.

Original Combination: *Clossiana aphirape laddi*

Type Locality: "Snowy Range, Albany Co., Wyoming"

Types: Holotype in AMNH.

g. *Boloria eunomia caelestis* (Hemming, 1933)

Entomol. 66(847): 275, no. 5.

Original Combination: *Argynnis aphirape caelestis*

Proposed to replace *Brenthis aphirape alticola* W.

Barnes and McDunnough, 1913, preoccupied, with the same data (Code Article 60.3).

= ‡*alticola* (W. Barnes & McDunnough, 1913)
Contr. Nat. Hist. Lepid. N. Am. 2(3): 97-98.

Original Combination: [*Brenthis*] *aphirape alticola*

Type Locality: "Hall Valley, Colo." [Park County, Colorado]

Types: Syntypes in USNM.

Preoccupied by *Argynnis alticola* Sushkin & Tsetverikov, 1907, Horae Soc. Entomol. Ross. 38(1): 18. Currently this name is employed for a subspecies of *Boloria (Clossiana) angarensis* Ershov, 1870. Even if *Proclossiana* and *Clossiana* are considered separate genera from *Boloria*, this name is no longer valid, since a replacement name was proposed before 1961, and that name has generally been used (Code Article 59.3).

Subgenus **Clossiana** Reuss, 1920

Entomol. Mitt. 9(10-12): 192 (footnote); rediagnosed by Reuss (1921), Entomol. Mitt. 10(6): 190, figs. 13-18 ♂ genitalia. Type-species: *Papilio selene* [Denis & Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 321, no. 11, by original designation.

selene group Gorbunov, 2001
Butterflies Russia Class.: 195.

616. *Boloria selene ([Denis & Schiffermüller], 1775)

Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 321, no. 11.

Original Combination: *P[apilio] Selene*

Type Locality: "Wienergegend" from the title of the work. [Vienna, Austria]

Types: Type(s) probably lost.

= *marphisa* (Herbst, 1800)

In: Jablonsky, Natursyst. Ins., Schmett. 10: 105-107, no. 42, pl. 270, figs. 8 ♂ D, 9 ♂ V.

Original Combination: *Papilio Marphisa*

Type Locality: Not stated.

Types: Type(s) probably lost.

= *rinaldus* (Herbst, 1800)

In: Jablonsky, Natursyst. Ins., Schmett. 10: 108-110, pl. 271, figs. 1 ♂ D, 2 ♂ V.

Original Combination: *Papilio Rinaldus*

Type Locality: "Botnia occidentali" [western Gulf of Bothnia, Sweden]

Types: Type(s) probably lost.

= *selenia* (Freyer, 1847)

Neuer Beitr. Schmett. Abbild. Natur. 6(83): 21-22, pl. 493, fig. 2 ♂ D&V.

Original Combination: *Pap[ilio]. Argynnis Selenia*

Type Locality: "Lechstluß"

Types: Holotype probably lost.

This was considered an "Abart von *Selene*" in text, so may be unavailable.

= *hela* Staudinger, 1861

In: Wocke & Staudinger, Stettiner Entomol. Ztg. 22(10-12): 347, under no. 11.

Original Combination: [*Argynnis Selene*] [var.] *Hela*

Type Locality: "schwedischen Lapland" [Swedish Lapland]

Types: Type(s) possibly in ZMHB.

= *obscurum* Sedykh, 1977

Geogr. Aspect. Conserv. Flora Faun. NE Europ. USSR: 101.

Original Combination: *Boloria selene* subsp. nova *obscurum*

Type Locality: "Polar Ural Station, on the crest of the Polar Urals; in a meadow amidst mountain dry and marshy tundra" [Komi Republic, Russia]

Types: Syntypes possibly in ZIN,

a. *Boloria selene myrina* (Cramer, 1777)

Uitl. Kapellen 2(16): 141, pl. 189, figs. B ♂ D, C ♂ V; (16): 150 (index).

Original

Combination: *Pap[ilio]. Nymph[alis]. Pha[erata]. Myrina*

Type Locality: "Noord-Amerika by Nieuwjork"

"l'Amerique Septentrionale, à la Nouvelle York";

suggested to be "from southeastern New York" by Kohler (1977), J. Lepid. Soc. 31(4): 240.

Types: Type(s) probably lost.

= ‡*myrissa* (Godart, [1824])

In: Ency. méth. 9(Ins.)(2): (253), 268, 806.

Original Combination: *Argynnis Myrissa*

- Proposed to replace *Papilio myrina* Cramer, 1777, erroneously thought preoccupied; a junior objective synonym of *myrina*.
- = *marilandica* (A. Clark, 1941)
J. Wash. Acad. Sci. 31(9): 384.
Original Combination: *Brenthis selene marilandica*
Type Locality: "the boggy pasture on the south side of the road from the Beltsville, M., railway station to the Department of Agriculture experiment farm" [Prince George's County, Maryland]
Types: Holotype (#55470) in USNM; figured by A. Clark (1932), Bull. U. S. Nat. Mus. (157): pl. 3. figs. 5 ♂ D, 6 ♂ V, and A. Clark and L. Clark (1951), Smithsonian Misc. Coll. 116(7): frtspc., figs. 1 ♀ V, 2 ♂ D (holotype); pl. 9, figs. B ♂ D, C ♂ V.
- = ‡"nubes" (Scudder, 1889)
Butterflies E. U. S. & Can. 1(5): 595-596.
Original Combination: *B[renthis]. m[yrina]*. [ab.] *nubes*
Type Locality: "Sanborton, N. H." [Belknap County, New Hampshire]
Types: "Holotype" (#29298) in MCZ.
The text clearly indicates that this taxon was described as an individual variant.
- = ‡"nivea" (Gunder, 1928)
Can. Entomol. 60(7): 163, pl. A, fig. 4 ♂ D (holotype).
Original Combination: *Brenthis myrina* tr. f. *nivea*
Type Locality: "Staten Island, N. Y." [New York]
Types: "Holotype" in AMNH.
‡"gunderana" W. Forbes, 1960
Mem. Cornell Univ. Agric. exp. Sta. 371 (part 4): 150, under no. 1.
Original Combination: [*Brenthis selene*] ab. *gunderana*
Forbes (1960), attributed this name to Dyar, who never described the taxon; a *nomen nudum*.
- b. Boloria selene nebraskensis** (W. Holland, 1928)
Ann. Carnegie Mus. 19(1): 36-37, no. 1c.
Original Combination: *B[renthis]. myrina nebraskensis* var. nov.
Type Locality: "Dodge County, Nebraska"
Types: Lectotype in CMNH, designated by W. Holland (1931), Butterfly Book (rev. ed.): 105, pl. 55 fig. 8 ♂ D.
- c. Boloria selene sabulocollis** Kohler, 1977
J. Lepid. Soc. 31(4): 252-253, figs. 3(a) ♂ D (holotype), 3(b) ♂ V (holotype), 3(c) ♂ D, 3(d) ♂ V, 3(e) ♂ D, 3(f) ♂ V, 6(g) ♀ D, 6(h) ♀ V, 7(a) ♀ D, 7(b) ♀ V, 7(c) ♀ D, 7(d) ♀ V.
Original Combination: *Boloria selene sabulocollis*
Type Locality: "Smith Lake, Sheridan Co., Nebraska"
Types: Holotype in AMNH.
- d. Boloria selene tollandensis** (W. Barnes & Benjamin, 1925)
Entomol. News 36(2): 44.
Original Combination: *Brenthis myrina tollandensis* race nov.

- Type Locality:** "Tolland, Moffat [sic!] County, Colorado, altitude approximately 10,000 ft." [Gilpin County]
Types: Holotype in USNM.
- e. ***Boloria selene albequina*** (W. Holland, 1928)
 Ann. Carnegie Mus. 19(1): 40-43, no. 6; figured by W. Holland (1931), Butterfly Book. (rev. ed.): pl. 55, figs. 19 ♂ D, 20 ♀ V, 21 ♂ V.
Original Combination: *B[renthis]. albequina*
Type Locality: "White Horse Pass, Yukon Territory"
Types: Syntypes in CMNH.
 McDunnough (1932), Can. Entomol. 64(12): 269, and Ferris (1971), Sci. Monog. Agric. Exp. Sta., U. Wyo.: 46, treated this taxon as a synonym of *B. s. atrocotalis*.
 = ‡"baxteri" (W. Holland, 1928)
 Ann. Carnegie Mus. 19(1): 42, no. 6 (in part).
Original Combination: *B[renthis]. albequina* var. *baxteri* aberrational form
Type Locality: "White Horse Pass, Yukon Territory"
Types: "Holotype" in CMNH.
- f. ***Boloria selene atrocotalis*** (Huard, 1927)
 Nat. Can. 54(6)[(2)34(60): 131, no. 8.
Original Combination: *Argynnis atrocotalis*
Type Locality: "Chicoutimi" [Quebec]
Types: Location of type(s) not known; McDunnough (1928), Can. Entomol. 60(11): 274, claimed to have examined the "type" so it is presumed to be in CNC.
 = ‡"serraticmarginata" (Gunder, 1926)
 Entomol. News 37(1): 7, no. 10, pl. 1, fig. 10 ♂ D ("holotype").
Original Combination: *Brenthis myrina* ab. ♂ *serraticmarginata*
Type Locality: "Vernon, British Columbia, Canada"
Types: Holotype in AMNH.
 = ‡"jenningsae" (W. Holland, 1928)
 Ann. Carnegie Mus. 19(1): 36, no. 1a; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 56, fig. 9 ♂ D.
Original Combination: *B[renthis]. myrina jenningsae* ♂ ab. nov.
Type Locality: "Jellicoe, on Thunder Bay, Ontario"
Types: "Holotype" (#5921) in CMNH.
- g. ***Boloria selene terraenovae*** (W. Holland, 1928) (emended)
 Ann. Carnegie Mus. 19(1): 36, no. 1b; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 55, fig. 13 ♂ D (holotype).
Original Combination: *B[renthis]. myrina terrae-novae*
Type Locality: "Newfoundland"; suggested to be "the eastern part of the island" by Kohler (1977), J. Lepid. Soc. 31(4): 262. [Newfoundland and Labrador]
Types: Holotype in CMNH.

bellona group Simonsen *et al*, 2010
 Syst. & Biodivers. 8(4): 522.

617. ***Boloria bellona*** (Fabricius, 1775)

- a. **Boloria bellona bellona** (Fabricius, 1775)
Syst. Entomol.: 517-518, no. 317.
Original Combination: *P[apilio]. M[ymphalis]. P[halerata]. Bellona*
Type Locality: "America boreali"
Types: Syntype in ZMUC.
- = ‡"fasciata" (T. Cockerell, 1889)
Entomol. 22(311): 99; cited Maynard (1886),
Butterflies New England: 27-28 (in part), under
no. 31.
Original Combination: *Argynnis bellona fasciata*
Type Locality: Not stated; "Massachusetts"
implied from reference to Maynard.
Types: "Type(s)" probably lost.
The text clearly indicates that this taxon was
described as an individual variant.
 - = ‡"kleenei" (F. Watson, 1921)
J. N. Y. Entomol. Soc. 28(3/4): 171-172.
Original Combination: *Brenthis bellona* ab. *kleenei*
Type Locality: "West Hartford, Connecticut"
[Hartford County]
Types: "Holotype" in AMNH.
 - = ‡"pardopsis" (W. Holland, 1928)
Ann. Carnegie Mus. 19(1): 45, no. 11b; figured
by W. Holland (1931), Butterfly Book (rev. ed.):
pl. 55, fig. 26 ♀ D ("holotype").
Original Combination: *B[renthis]. bellona* ab. *pardopsis*
Type Locality: "Crafton, Allegheny County, Pa."
[Pennsylvania]
Types: "Holotype" in CMNH.
 - = ‡"ammiralis" (Hemming, 1933)
Entomol. 66(847): 276, no. 7.
Original Combination: *Argynnis ammiralis*
Proposed to replace *Papilio bellona* Fabricius,
1775, erroneously thought preoccupied; a junior
objective synonym of *bellona*.
- b. **Boloria bellona toddi** (W. Holland, 1928)
Ann. Carnegie Mus. 19(1): 45, no. 11a; figured by W.
Holland (1931), Butterfly Book (rev. ed.): pl. 55, fig. 14 ♂
D (holotype), 15 ♀ D (paratype).
Original Combination: *B[renthis]. bellona toddi*
Type Locality: "St. Margarets River...near Sept-Iles
along a river that was called Riviere Sainte-Marguerite;
Quebec" This river was dammed near its confluence with
the St. Laurence River, and the resulting reservoir is
called Lac-Walker.
Types: Holotype (#5269) in CMNH.
- c. **Boloria bellona jenistai** D. Stallings & Turner, 1947
Can. Entomol. 78(7/8): 135-136.
Original Combination: *Boloria toddi jenistai*
Type Locality: "Lloydminster, Sask."; suggested to be
"the vicinity of Rivercourse, Alberta" by Kondla (1996),
Alberta Naturalist 26(2): 39.
Types: Holotype in USNM.

- *618. **Boloria frigga** (Thunberg, 1791)
Entomol. Sist. Ins. Svec. (2): 33-34.
Original Combination: *Papilio*
Frigga *P[apilio]*. *n[ymphalis]*. *ph[aleratus]*.
Type Locality: "Lapponiae sylvis"; lectotype from "Sweden: Lappland."
Types: Lectotype in UZIU, designated by Karsholt and Nielsen (1986), Entomol. Scand. 16(4): 446.
= *maritima* Kardakoff, 1928
Entomol. Mitt. 17(4): 270. pl. 7, fig. 4.
Original Combination: *Argynnis frigga* *maritima*
Type Locality: "Primorye: Ternei Bay" [Russia]
Types: Location of type(s) not known.
= *helvenacius* Sedykh, 1977
Geogr. Aspect. Conserv. Flora Faun. NE Europ. USSR: 102.
Original Combination: *B[oloria]*. *frigga* subsp. *nova* *helvenacius*
Type Locality: "Polar Urals" [Polar Ural, Komi Republic, Russia]
Types: Syntypes possibly in ZIN.
a. **Boloria frigga saga** (Staudinger, 1861)
Stettiner Entomol. Ztg. 22(10/12): 350, under no. 16.
Original Combination: [*Argynnis Frigga*] [var.] *Saga*
Type Locality: "Labrador" [Newfoundland and Labrador]
Types: Holotype in BMNH.
b. **Boloria frigga gibsoni** (W. Barnes & Benjamin, 1926)
Bull. South. Calif. Acad. Sci. 25(3): 92, no. 197d.
Original Combination: *Brenthis frigga* race *gibsoni*
Type Locality: "Barter Island, Northern Alaska"
Types: Syntypes in CNC; one figured by Gibson (1920), Rept. Can. Arctic Exped. 3(i): 57i, pl. 5, fig. 1 ♂ D. Layberry, *et al.* (1998), Butterflies Can.: 178, suggested that this may be a species-level taxon.
= *alaskensis* (Lehmann, 1913)
In: Seitz, Grossschmett. Erde 5(173): 424; (178): pl. 87e, fig. [3] ♀ D.
Original Combination: [*Argynnis frigga*] fa. *alaskensis*
Type Locality: "nördöstlichen Alaska (69° 40' nördl. Breite, 141° westl. Länge)"
Types: One probable syntype in ZMUC, others may be in SMF.
Secondarily preoccupied by *Brenthis pales alaskensis* W. Holland, 1900, Entomol. News 11(3): 383, no. 6.
= *lehmanni* (W. Holland, 1928)
Ann. Carnegie Mus. 19(1): 44, no. 10.
Original Combination: *B[renthis]*. *frigga* var. *lehmanni* nom. nov.
Proposed to replace *Argynnis frigga* fa. *alaskensis* Lehmann, 1913, with the same data (Code Article 60.3). According to Code Article 59.3, this permanently invalidates *alaskensis* since the name *gibsoni* has traditionally been used for this taxon.
c. **Boloria frigga sagata** (W. Barnes & Benjamin, 1923)

- Can. Entomol. 55(6): 146.
Original Combination: *Brenthis frigga* race *sagata*
Type Locality: "Hall Valley, Colorado" [Park County]
Types: Holotype in USNM.
619. **Boloria improba** (Butler, 1877)
 a. **Boloria improba improba** (Butler, 1877)
 Entomol. Mon. Mag. 13(153): 206.
Original Combination: *Argynnis improba*
Type Locality: "between 67 1/2 and 68°...Winter Cove and Cambridge Bay" [Nunavut]
Types: Syntypes in BMNH.
 b. **Boloria improba youngi** (W. Holland, 1900)
 Entomol. News 11(3): 383-384, no. 9; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 55, fig. 28 ♂ V (holotype).
Original Combination: *B[renthis]. youngi*
Type Locality: "mountains between Forty-Mile and Mission Creeks, N. E. Alaska"
Types: Holotype in CMNH.
 Ferris (1984), Bull. Allyn Mus. (89): 1-2, suggested that this taxon represents an individual form, and therefore a synonym of *B. i. improba*.
 c. **Boloria improba nunatak** Scott, 1998
 Papilio (n.s.) 11: 3-4.
Original Combination: *Boloria improba nunatak*
Type Locality: "Torrens River, Alberta", presumably from the mountains nearby.
Types: Holotype in AMNH.
 d. **Boloria improba harryi** (Ferris, 1984)
 Bull. Allyn Mus. (89): 2-5, figs. 2 ♂ D, 3 ♂ V (holotype); 4 ♀ D, 5 ♀ V.
Original Combination: *Clossiana improba harryi*
Type Locality: "near the summit of Bears Ears Trail, 0.5 mi. (0.8 km) NW of Mt. Chauvenet, 11, 750' (3583m), Shoshone National Forest, Fremont Co., Wyoming" [Wind River Mountains]
Types: Holotype in MGCL.
 e. **Boloria improba acrocnema** Gall & Sperling, 1980
 J. Lepid. Soc. 34(2): 231-236, figs. 1&7 ♂ D&V, 13 ♂ D, 16 ♂ V (holotype), 2&8 ♂ D&V, 3&9 ♂ D&V, 4&10 ♀ D&V, 5&11 ♀ D&V, 6&12 ♀ D&V, 19-21 ♂ genitalia.
Original Combination: *Boloria acrocnema*
Type Locality: "Mt. Uncomphagre, 13.0 km NW of Lake City, Hinsdale Co., Colorado, elev. 4080-4140m"
Types: Holotype in PMNH.
620. **Boloria kriemhild** (Strecker, 1879)
In: C. A. H. McCauley, Rept. San Juan Recon., Ind. Exec. Doc. House Rep. 3rd Sess. 45th Congr. 5(1)pt. 2(3), appendix SS: 1854, pl. 1, figs. 5 ♀ D, 6 ♀ V.
Original Combination: *Argynnis Kriemhild*
Type Locality: "Utah...Arizona...Rio Florida, Colorado"; lectotype from "Utah."
Types: Lectotype in FMNH, designated by Skinner (1914), Entomol. News 25(7): 324; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 74, figs. 1 ♂ D, 2 ♂ V.
 = *laurenti* (Skinner, 1913)
 Entomol. News 24(10): 450.
Original Combination: *Argynnis laurenti*

Type Locality: "Silver Lake (Brightons), Utah" [Brighton, Salt Lake County]

Types: Syntypes (#7024) in CMNH; one figured by W. Holland (1931), *Butterfly Book* (rev. ed.): pl. 56, fig. 17 ♂ V.

The identity of this taxon was established by W. Barnes and McDunnough (1914), *Entomol. News* 25(7): 323-324.

= *luecki* (Reuss, 1923) (emended)
Soc. Entomol. 38(4): 14.

Original Combination: *Clossiana luecki*

Type Locality: "Utah, Nord-Amerika"

Types: Syntypes in Reuss collection.

621. **Boloria epithore** (W. H. Edwards, 1864)

a. **Boloria epithore epithore** (W. H. Edwards, 1864)
Proc. Entomol. Soc. Philad. 2(4): 501, 503-504, no. 5.

Original Combination: *Argynnis Epithore* Boisduval *in lit.*

Type Locality: "California"; neotype from "Saratoga, Santa Clara County, California."

Types: Neotype in CMNH, designated by Klots (1965), *in*: F. Brown, *Trans. Am. Entomol. Soc.* 91(3): 335, fig. 34a ♂ D&V.

= *epithore* (Boisduval, 1869)
Annls. Soc. Entomol. Belg. 12: 58, no. 50.

Original Combination: *Argynnis Epithore*

Type Locality: "les hautes montagnes de l'est"; defined as "vic. of Santa Cruz Mtns., Santa Cruz County, California" by E. Perkins and Meyer (1973), *Bull. Allyn Mus.* (11): 4.

Types: Lectotype in CMNH, designated by E. Perkins and Meyer (1973), *ibid.*; figured by F. Brown (1965), *Trans. Am. Entomol. Soc.* 91(3): 335, fig. 34b ♂ D&V.

Preoccupied by *Argynnis epithore* W. H. Edwards, 1864, *Proc. Entomol. Soc. Philad.* 2(4): 503-504.

b. **Boloria epithore sierra** E. Perkins, 1973

In: E. Perkins and Meyer, *Bull. Allyn Mus.* (11): 10-11, pl. 1, figs. 1 ♂ D (holotype), 2 ♂ V, pl. 2, figs. 3 ♀ D, 4 ♀ V.

Original Combination: *Boloria epithore sierra*

Type Locality: "Sentinel Dome, Yosemite National Park, Mariposa County, California"

Types: Holotype in MGCL.

= *eldorado* (Strand, 1915)
Arch. für Naturgesch. (A) 80(11): 156.

Original Combination: *Brenthis epithore* cum ab. *eldorado* n. ab.

Type Locality: "Plumas Co....Eldorado Co." [California]

Types: Syntypes probably in DEI.

= *wawonae* (Gunder, 1924)
Entomol. News 35(5): 156, pl. 2, fig. F ♂ D ("holotype").

Original Combination: *Brenthis epithore* ab. ♂ *wawonae*

Type Locality: "Wawona, Mariposa County, California"

Types: "Holotype" in AMNH; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 26, fig. 10 ♂ D.

c. *Boloria epithore chermocki* E. Perkins & S. Perkins, 1966

J. Lepid. Soc. 20(2): 109-112, pl. 1, figs. 9 ♂ D, 10 ♂ V (holotype); pl. 2 figs. 11 ♀ D, 12 ♀ V.

Original Combination: *Boloria epithore chermocki*

Type Locality: "2.9 miles E of Dolph, Yamhill Co., Oregon"

Types: Holotype in LACM.

= *uslui* (Koçak, 1984)

Priamus 3(3): 96.

Original Combination: *Boloria epithore uslui*

Proposed to replace *Boloria epithore borealis* E. Perkins, 1973, with the same data (Code Article 60.3).

C. Guppy and J. Shepard (2001), Butterflies B. C.: 290, determined this synonymy.

= ~~*borealis*~~ E. Perkins, 1973

In: E. Perkins and Meyer, Bull. Allyn Mus. (11): 6-8, pl. 1, figs. 13 ♂ D (holotype); 14 ♂ V, pl. 2, figs. 15 ♀ D, 16 ♀ V.

Original Combination: *Boloria epithore borealis*

Type Locality: "Shingle Creek Road, Keremeos, British Columbia"

Types: Holotype in CNC.

Preoccupied by *Argynnis thore borealis* Staudinger, 1861, Stettiner Entomol. Ztg. 22(10-12): 351.

= ~~*"obscuripennis"*~~ (Gunder, 1926)

Entomol. News 37(1): 7, no. 9, pl. 1, fig. 9 ♀ D (holotype).

Original Combination: *Brenthis epithore* ab. ♀ *obscuripennis*

Type Locality: "Chilcolin [sic!], British Columbia, Canada" [Chilcotin]

Types: "Holotype" in AMNH.

d. *Boloria epithore sigridae* (J. Shepard, 2001)

Butterflies B. C.: 289-290, figs. ♂ D&V (holotype), ♀ D&V.

Original Combination: *Clossiana epithore sigridae*

Type Locality: "BC, St. Elias Mts., Tats Lake, 770 m" [British Columbia]

Types: Holotype in BCPM.

polaris group Simonsen *et al*, 2010
Syst. & Biodivers. 8(4): 519.

622. *Boloria polaris* (Boisduval, [1828])

a. *Boloria polaris polaris* (Boisduval, [1828])

Europ. Lepid. Ind. Meth: 15-16; figured by Boisduval [1833], Icon. Hist. Lépid. Europ. 1(10): pl. 20, figs. 1 ♂ D, 2 ♂ V, and (1836), Spec. gén. Lépid. 1: pl. 11, fig. 1 ♂ D&V.

Original Combination: *Argynnis Polaris*

Type Locality: "Cap Nord"; stated to be "cap Nord, c'est-à-dire l'extrémité de la Laponie norvégienne" by Duponchel [1832], *in:* Godart, Hist. Nat. Lépid.

1(Diurnes), Suppl. 1(6): 125-126, no. 44. [Finmark, Norway]

Types: Location of type(s) not known, possibly in BMNH or MNHP.

= *gronlandica* ([Skinner], 1892)

Entomol. News 3(3): 49, nos. 9-10, pl. 2, figs. 9 ♀ D, 10 ♀ V (holotype).

Original Combination: *Argynnis chariclea* var. *gronlandica*

Type Locality: "Greenland" implied from plate caption; suggested to be "West Coast...McCormick Bay, Herbert Island and Disco...West Coast of Greenland" by Skinner and Mengel (1892), Proc. Acad. Nat. Sci. Philad. 44(5): 157.

Types: Syntype (#7781) in CMNH.

Masters (1972), Entomol. Rec. & J. Var. 84(7/8): 178, treated this as a subspecies-level taxon.

= *homeyeri* Pagenstecher, 1902

Fauna Arctica 2(2): 236; cited Wocke, 1874, in: Die Zweite Deutsche Nordpolarfahrt 2: 408.

Original Combination: *Argynnis polaris* var. *homeyeri*

Type Locality: "Gronland"

Types: Location of type(s) not known.

= *americana* (Strand, 1905)

Rept. 2nd Norweg. Arctic Exped. "Fram" 1898-1902 1(3): 10-11, no. 3.

Original Combination: *Argynnis polaris* var. *americana*

Type Locality: "Havnen, Rice Strait (Ellesmere Ld.)...Havnefjorden (Jones Sd.)...Gaasefjorden (Ellesmere Ld.)...die Westseite von Gaasefjorden"

Types: Type(s) probably in ZMHB.

= *kurenzovi* Wyatt, 1961

Z. wien. entomol. Ges. 46[72](7/8): 98-99, pl. 5, figs. 1 ♀ D, 2 ♀ V.

Original Combination: *Boloria alberta kurenzovi*

Type Locality: "Berge von Tschukotka, N. O. Sibirien, Geröll-zone" [Magadan Oblast, Chukotka Autonomous Okrug, Russia]

Types: Holotype in LNKD.

= *digna* (Churkin, 2001)

Helios 2: 97-98, pl. 8, figs. 4 ♂ D (holotype), 5 ♂ V, 6 ♀ D.

Original Combination: *Clossiana polaris digna*

Type Locality: "Russia, Wrangel Is., Neizvestnaya R. (middle stream)" [Chukotka Autonomous Okrug, Russia]

Types: Holotype in DSM.

b. *Boloria polaris stellata* Masters, 1972

Entomol. Rec. & J. Var. 84(7/8): 177-178, pl. 11, fig. A ♂ D, B ♂ V (holotype), G ♀ D, H ♀ V.

Original Combination: *Boloria Polaroides Stellata*

Type Locality: "Churchill, Manitoba"

Types: Holotype in AMNH.

623. *Boloria alberta* (W. H. Edwards, 1890)

Can. Entomol. 22(6): 113-114; figured by W. H. Edwards (1894), Butterflies N. Am. 3(15): pl. Argynnis 7, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.

Original Combination: *Argynnis Alberta*

Type Locality: "Laggan, Alberta...strictly above timberline, and not very near it either, though not at the highest points in the mountains"; defined as "vicinity of...Lake Louise, Banff National Park, Alberta" by Kondla (1996), Alberta Naturalist 26(2): 40.

Types: Lectotype in CMNH, designated by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 339, fig. 35 ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 15, fig. 15 ♂ D.

= ‡"banffensis" (Gunder, 1932)

Pan-Pac. Entomol. 8(3): 125.

Original Combination: *Brenthis alberta* tr.

f. *banffensis*

Type Locality: "Banff, Alberta, Canada"

Types: "Holotype" in AMNH.

tritonia group Simonsen *et al*, 2010
Syst. & Biodivers. 8(4): 519.

624. Boloria astarte (E. Doubleday, [1847])

a. Boloria astarte astarte (E. Doubleday, 1847)

In: Gen. diurn. Lepid. (1)(12): pl. 23, fig. 5; (1)(21): 181, footnote (1848), name corrected to *Argynnis astarte*.

Original Combination: *Melitaea Astarte*

Type Locality: "Rocky Mountains, North America"; defined as "Rock Lake, Alberta (53° 27'N, 118° 16'W)" by J. Shepard (1984), Quaest. Entomol. 20(1): 40-41.

Types: Syntype (#45-136) in BMNH.

C. Guppy and J. Shepard (2001), Butterflies B. C.: 295-296, suggested that *astarte* is conspecific with *B.*

tritonia (Böber, 1812), Mém. Soc. Moscou 3: 20-21, no.

6, pl. 1, figs. 1 ♂ D, 2 ♂ V; index: 320, an arrangement

adopted by Gorbunov (2001), Butterflies Russia Class.: 195-196. However, Pike (1981), J. Res. Lepid. 18(3):

162, and Bogdanov (2009), Proc. State Darwin Mus. 13:

68-99, among others, have questioned whether *distincta*, and by implication *tshukotkensis*, should be considered subspecies of *B. astarte*. Further study is needed.

= *victoria* (W. H. Edwards, 1891)

Can. Entomol. 23(9): 198-199; figured by W. H.

Edwards (1894), Butterflies N. Am. 3(15): pl.

Argynnis 7, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V

(as *astarte*).

Original Combination: *Argynnis Victoria*

Type Locality: "Laggan, Alberta"; defined as "two mountains near Laggan, one of them three miles southwest, in the main range, the other a low smooth mountain directly north of Laggan" by W. H. Edwards (1894), Butterflies N. Am. 3(15): [115-118]; subsequently interpreted to be "outliers of Mt. Temple and Mt. Richardson" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 341.

Types: Holotype in CMNH, figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 340, fig. 36 ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 18, fig. 15 ♂ V.

b. Boloria astarte distincta (Gibson, 1920)

Rept. Can. Arct. Exped. 3(i): 25i, 54i, pl. 4, fig. 12 ♀ V (holotype).

Original Combination: *Brenthis distincta*

Type Locality: "Harrington Creek, Yukon Territory, lat. 65° 05"

Types: Holotype in CNC.

c. ***Boloria astarte tschukotkensis*** (Wyatt, 1961)

Zeit. Weiner Entomol. Ges. 46[72](7/8): 99, pl. 5, fig. 3 ♀ D, 4 ♀ V (holotype).

Original Combination: *Clossiana distincta tschukotkensis*

Type Locality: "Berge von Tschukotka, N. O. Sibirien, Geröll-zone" [Magadan Oblast, Chukotka Autonomous Okrug, Russia]

Types: Holotype in LNKD.

= *ershovi* Korshunov & Gorbunov, 1995

Butterflies Asiatic Russia: 108, under no. 211.

Original Combination: *Clossiana astarte ershovi*

Type Locality: "Khaptagai on the Lena River" [Sakha Republic, Russia]

Types: Holotype in SZMN.

= *suntara* Korshunov, 1998

New descr. specif. Butterflies Asiatic Russia 21-22.

Original Combination: [*Clossiana*] *astarte suntara*

Type Locality: "Suntar-Khayata Range, 180 km ESE Khandyga, upper Eastern Khandyga River, 233 km on the Khandyga to Magadan line, mountains at 1300-1500 m, Yakutia" [Sakha Republic, Russia]

Types: Syntypes in SZMN.

freija group Gorbunov, 2001
Butterflies Russia Class.: 199.

625. ***Boloria freija*** (Thunberg, 1791) (1789)

The name *freija* has long been associated with this species. The recent determination (Heppner (1981), Arch. Nat. Hist. 10(2): 251-254) of Esper's publication dates gave priority to Esper's description of *lapponica* over *freija*.

Replacing *freija* with *lapponica* is unnecessary and destabilizing. A paper is being prepared to cite the evidence for implementation of Code Article 81.2.3, to grant *freija* status as a *nomen protectum*. Current usage is maintained.

a. ***Boloria freija freija*** (Thunberg, 1791) (1789)

Entomol. Sist. Ins. Svec. (2): 34-36, pl. 2, figs. 14, [14a] ♂ D&V.

Original Combination: *Papilio*

Freija P[apilio]. n[ymphalis]. ph[aleratus].

Type Locality: "Vestrobothnia juxta flumina locis locios graminosis...in Lapponia"; lectotype labeled "Lapp. Liljeblad." [western Gulf of Bothnia and Lappland, Sweden]

Types: Lectotype in UZIU, designated by Karsholt and Nielsen (1986), Entomol. Scand. 16(4): 446.

= *lapponica* (Esper, 1789)

Die Schmett. 1(suppl.)(1)(3/4): 21-22, pl. 97 (Cont. 52), fig. 3 ♂ D&V.

Original

Combination: P[apilio]. N[ymphalis]. Ph[alerata]. *Di a Lapponica*

Type Locality: "Der lapplandisch *P. Dia*." [Lapland]

Types: Location of type(s) not known, probably lost.

= ‡*freya* (Godart, 1819)

In: Enc. méth. 9(Ins.)(1): (254), 273, no. 37; cited many references to *freija*.

Original Combination: *Argynnis Freya*

Proposed to replace *Papilio freija* Thunberg, 1791, erroneously thought to be preoccupied, or possibly an unjustified emendation.

= *jakutensis* (Wnukowsky, 1927)

Mitt. Münchn. Entomol. Ges. 17(7-12): 70, no. 4.

Original Combination: *Argynnis*

(*Brentis* [sic!]) *frieja jakutensis*

Type Locality: "Siberia septentrionalis-orientalis (Jakutsk)" [Yakutsk, Sakha Autonomous Republic, Russia]

Types: Syntypes in UTR.

= *zamolodchikova* (Churkin, 2001)

Helios 2: 99, pl. 8, figs. 10 ♂ D (holotype), 11 ♂ V, 12 ♀ D.

Original Combination: *Clossiana frieja zamolodchikova*

Type Locality: "Russia, East Chukotka, 13 km SE Ioni L., Gilmimleviem R" [Magadan Oblast, Chukotka Autonomous Okrug, Russia]

Types: Holotype in DSM.

= ‡"gunderi" (Harper, 1933)

Pan.-Pac. Entomol. 9(3): 99.

Original Combination: *Brenthis frieja gunderi* new tr. fm.

Type Locality: "McCreary, Manitoba, Canada"

Types: "Holotype" in CAS.

b. *Boloria frieja tarquinius* (J. Curtis, 1835)

In: Ross, Voy. Search Northwest Pass., Appendix: lxviii-lxix, no. 14.

Original Combination: [*Melitaea*] *Tarquinius*

Type Locality: "Arctic Regions"; determined from itineraries in vol. 1 and a letter from John Ross in vol. 2, Addenda: 732-735, to be the area bounded by 69.30°-70.9° N lat. and 91.52°-93.0°W long, in the vicinity of the isthmus of Boothia Peninsula, named by the expedition. [Kitikmeot-Keewatin regions, Nunavut]

Types: Syntypes possibly in BMNH.

c. *Boloria frieja browni* (Higgins, 1953)

Entomol. 86(9): 210, no. 9.

Original Combination: *Clossiana frieja browni*

Type Locality: "Independance Pass, Pitkin Co." [Colorado]

Types: Holotype in AMNH.

626. *Boloria natazhati* (Gibson, 1920)

Troubridge and Wood (1990), J. Lepid. Soc. 44(3): 180-182, determined that this is a species-level taxon, which was revised by J. Shepard *et al.* (1998), Syst. W. N. Am. Butterflies (60): 731-736.

a. *Boloria natazhati natazhati* (Gibson, 1920)

Rept. Can. Arctic Exped. 3(i): 21i-22i, 52i, 56i, pl. 3, figs. 6 ♂ V (holotype), 12 ♀ D; pl. 5, fig. 6 ♂ D (holotype).

Original Combination: *Brenthis natazhati*

Type Locality: "141st meridian, north of mount Natazhat, international boundary survey, elevation 8,600 feet" [southern Yukon Territory]

Types: Holotype in CNC.

- b. ***Boloria natazhati nabokovi*** D. Stallings & Turner, 1947
Can. Entomol. 78(7/8): 134-135.

Original Combination: *Boloria freija nabokovi*

Type Locality: "Alaska Military Highway...Mile 102, North of Summit 2, Ravine, Elevation 6000 ft...British Columbia"; defined as "the Sentinel Range of the Rocky Mts., B. C., at 1830 m elevation" by Troubridge and Wood (1990), J. Lepid. Soc. 44(3): 186; suggested to be "a ravine north of Summit Lake, mile 392 [now km. 621.7] Alaska Highway, British Columbia, Canada" by J. Shepard and Kondla (1993), Pan-Pac. Entomol. 69(3): 273.

Types: Holotype (#27642) in MCZ.

- c. ***Boloria natazhati bankslandia*** J. Shepard, 1998
Syst. W. N. Am. Butterflies (60): 732, figs. 5 ♂ D, 6 ♂ V.

Original Combination: *Boloria natazhati bankslandia*

Type Locality: "N.W.T., Victoria Is. 71°17'N, 114°W" [Northwest Territories]

Types: Holotype in CNC.

titania group Simonsen *et al*, 2010
Syst. & Biodivers. 8(4): 522.

***627. *Boloria chariclea* (Schneider, 1794)**

Neu. Mag. f. Leibhaber Entomol. 5: 588-589.

Original Combination: *Papilio Chariclea*

Type Locality: "Lappland" implied from the title of paper.

Types: Location of type(s) not known, probably lost.

The arrangement of North American taxa in this group follows Pike (1981), J. Res. Lepid. 18(3): 156, and J. Shepard (1998), Syst. W. N. Am. Butterflies (59): 727-730. It is probable that this assemblage in North America actually consists of two species, but it is not possible to diagnose these at present.

- a. ***Boloria chariclea montinus*** (Scudder, 1863)

Proc. Essex Inst. 3: 166, no. 32; redescribed and figured by Scudder (1863), Boston J. Nat. Hist. 7(4): 626-628, pl. 14, fig. 1 ♂ D&V.

Original Combination: *Argynnis Montinus*

Type Locality: "the lower half of barren summits of the White Mountains, N[ew] H[ampshire]"; defined as "summit of Mount Madison, the head of Tuckerman's Ravine, and a short distance above the Ledge, (all, it will be noticed, within the subalpine region)" by Scudder (1863), Boston J. Nat. Hist. 7(4): 618, 628.

Types: Syntypes probably in MCZ.

- b. ***Boloria chariclea boisduvalii*** (Duponchel, [1832])

In: Godart, Hist. Nat. Lepid. 1(Diurnes), Suppl. 1(6): 127-128, no. 45, pl. 20, no. 4 ♂ V.

Original Combination: *Argynnis Boisduvalii*

Type Locality: "les contrées les plus septentrionales de l'Europe"; suggested to be "probably Labrador" by Klots (1951), Field Guide Butterflies N. Am.: 90.

Types: Type(s) may be in MNHP or BMNH.

Both Duponchel [1832] *ibid.*, and Boisduval [1833], Icon. Hist. Lépid. Europ. 1(10): 98, pl. 20, figs. 5 ♂ D, 6 ♂ V,

cited "M. Sommer" as the source of the specimens described. Sommer has been noted as a source of many butterflies from Labrador (e.g., Boisduval and Le Conte [1830], Hist. Lépid. Amér. sept. (8): 66-67, Staudinger (1857), Stettiner Entomol. Ztg. 18(7-9): 300-301, and Hemming (1937), Hübner 2: 123). Scudder (1868), Proc. Boston Soc. Nat. Hist. 11: 33, and Aurivillius (1889), Bih. K. svenska VetenskAkad. Handl. 15(4)(1): 9-10, fig. 1 VHW, referred to samples from Labrador as *boisduvalii*. Examination of the type(s), if extant, is needed; if there are no syntypes, the designation of a neotype may be required.

= ‡"labradorensis" (Gunder, 1928)
Can. Entomol. 60(7): 163, pl. A, figs. 5, 5a ("holotype").

Original Combination: *Brenthis chariclea* race *oenone* tr. f. *labradorensis*

Type Locality: "Labrador" [Newfoundland and Labrador]

Types: "Holotype" in USNM.

‡"oenone" (Scudder, 1875)
Proc. Boston Soc. Nat. Hist. 17(3): [297]-299.

Original Combination: *Arg[ynnis]*. *Oenone*
This name was listed in the synonymy of *chariclea* Schneider, 1794, without a description or indication; a *nomen nudum*.

c. **Boloria chariclea arctica** (Zetterstedt, [1839])
Ins. Lappon. (5): col. 899, no. 18.

Original Combination: *A[rgynnis]*. *arctica*

Type Locality: "Groenlandia"

Types: Location of type(s) not known, possibly lost.

= ‡*tullia* O. Fabricius, 1780
Fauna Groenl.: 192-193, no. 143.

Original Combination: *Papilio Tullia*

Type Locality: "Groenl. Sullerneke...Kugluak" [Greenland]

Types: Location of type(s) not known, probably lost.

Preoccupied by *Papilio tullia* Müller, 1764,
Fauna Ins. Fridrichsdal.: 36.

= *obscurata* (M'Lachlan, 1878)
J. Linn. Soc. Lond., Zool. 14(74): 110.

Original Combination: *A[rgynnis]*. *Chariclea*, var. *obscurata*

Type Locality: "81° 41'N"; holotype from "Grinnell Land, W. side of Smith Sound 81°45' N" [Ellesmere Island, Nunavut]

Types: Holotype in BMNH.

d. **Boloria chariclea grandis** (W. Barnes & McDunnough, 1916)

Can. Entomol. 48(7): 223.

Original Combination: *Brenthis chariclea grandis*

Type Locality: "Hymers, Ont." [Ontario]

Types: Syntypes in USNM; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 60, figs. 7 ♂ D, 8 ♀ V.

e. **Boloria chariclea butleri** (W. H. Edwards, 1883)

Can. Entomol. 15(2): 32-33.

Original Combination: *Argynnis Butleri*

Type Locality: "Cape Thomson, North-west America...Kotzebue Sound"; lectotype from "Cape Thompson." [Alaska]

Types: Lectotype in CMNH designated by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 346, fig. 38 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 55, fig. 18 ♂ V.

= *tshuktsha* Korshunov, 1998

New descr. specif. Butterflies Asiatic Russia: 21.

Original Combination: *Clossiana chariclea tshuktsha*

Type Locality: "mouth of the Chaun River, 100 km south of Pevek, Chukotka" [Magadan Oblast, Chukotka Autonomous Okrug, Russia]

Types: Holotype in the SZMN.

f. *Boloria chariclea rainieri* (W. Barnes & McDunnough, 1913)

Contr. Nat. Hist. Lepid. N. Am. 2(3): 96-97, pl. 2, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V, 4 ♀ V.

Original Combination: *B[renthis]. chariclea rainieri*

Type Locality: "Mt. Ranier [sic!], Wash....(6-7000 ft)"; the figure captions added "Paradise Valley" [Mt. Rainier, Pierce County].

Types: Syntypes in USNM and LACM; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 60, figs. 9 ♂ D, 10 ♀ V.

C. Guppy and Kondla (2002), J. Lepid. Soc. 56(3): 181, suggested that this name be emended to "*ranieri*" since "Mt. Ranier" was misspelled in the text in the original description. The name as given in the description heading was derived from the correct spelling of the name of the mountain, and needs no emendation (Code Article 32.5.1).

g. *Boloria chariclea ingens* (W. Barnes & McDunnough, 1918)

Contr. Nat. Hist. Lepid. N. Am. 4(2): 71, 180, pl. 11, figs. 5 ♂ D (holotype), 6 ♂ V.

Original Combination: *Brenthis helena ingens*

Type Locality: "Yellowstone Park" [Wyoming].

Types: Holotype in USNM.

= *†"martini"* (Gunder, 1934)

Can. Entomol. 66(6): 127-128.

Original Combination: *Brenthis helena ingens* tr. f. *martini*

Type Locality: "Teton trail, Teton Mts., Teton County, Wyoming (just south of the *ingens* type locality)"

Types: "Holotype" in AMNH.

h. *Boloria chariclea helena* (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 266, 268, no. 3.

Original Combination: *Argynnis Helena*

Type Locality: "Colorado"; suggested to be "region of the range north and west of Fairplay and about Twin Lakes", probably "Mt. Elbert, Mosquito Pass, Mt. Lincoln and Hoosier Pass" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 160; defined as "Mosquito Pass, Lake-Park Counties, Colorado" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 342-343.

Types: Lectotype in CMNH, designated by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 344, fig. 37 ♂ D&V.

= *sangredecristo* Scott, 1981
Papilio (n.s.) 1: 5.

Original Combination: *Boloria titania*
sangredecristo

Type Locality: "Hermit Pass, Sangre de Cristo Mts., Custer Co., Colorado"

Types: Holotype in LACM.
Scott (1986), Butterflies N. Am.: 319, determined this synonymy.

Subtribe **Argynnina** Swainson, 1833

Genus **Speyeria** Scudder, 1872

4th Ann. Rept. Peabody Acad. Sci. (1871): 44. Type-species: *Papilio idalia* Drury, 1773, Ill. Nat. Hist. 1: 25, pl. 13, figs. 1-3 (1770); 2: index (1773), by original designation. Simonsen (2006a), Zool. Scripta 35(3): 231-241, and (2006b), Biol. J. Linn. Soc. 89(4): 627-673, and Simonsen *et al.*, (2006) Ins. Syst. & Evol. 37(4): 405-418, offer excellent morphological and molecular reasons to include *Speyeria* as a subgenus within *Argynnis* [Fabricius], 1807, in: Illiger, Mag. f. Insektenk. 6: 287. This was current before 1945 and has had a long history as the generic name for the butterflies now in the genus *Speyeria*. There are objections to changing the generic name at this time, not all of them technical issues. Such a change may be warranted in the future. Dunford (2009), Insecta Mundi 90: 1-74, offers an overview of the genus, with emphasis on the *atlantis* - *hesperis* complex.

- = *Semnopsyche* Scudder, 1875
Bull. Buffalo Soc. Nat. Sci. 2(4): 238, 258-259, no. 44. Type-species: *Papilio diana*, Cramer, 1777, Uitl. Kapellen 2(9): 4, pl. 98, figs. D, E; 2(16): 148 (index), by original designation. Grey (1989), J. Lepid. Soc. 43(1): 1-2, determined this synonymy.
- = *Neoacidalia* Reuss, 1926
Dtsche. Entomol. Z. 1926(1): 69. Type-species: *Papilio cybele* Fabricius, 1775, Syst. Entomol.: 516, no. 311, by original designation.
- = *Mesoacidalia* Reuss, 1926
Dtsche. Entomol. Z. 1926 (1): 69. Type-species: *Papilio aglaja* Linnaeus, 1758; Syst. Nat. (Edn 10) 1: 481, no. 140, by original designation.
- = *Proacidalia* Reuss, 1926
Dtsche. Entomol. Z. 1926 (1): 69. Type-species: *Argynnis clara* Blanchard, 1844; in Jacquemont, Voy. Inde 4 (Zool.): 20, pl. 2, figs. 2, 3, by original designation.

628. **Speyeria diana** (Cramer, 1777)
Uitl. Kapellen 2(9): 4, pl. 98, figs. D ♂ D, E ♂ V; (16): 148 (index).

Original

Combination: *Pap[ilio]. Nymph[alis]. Phaler[ata]. Diana*

Type Locality: "Virginien", "Virginie" on page 3; defined as "Jamestown, James City County, Virginia" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 6.

Types: Holotype in BMNH; figured in Dunford (2009), Insecta Mundi 90: fig. 7 ♂ D&V.

629. **Speyeria cybele** (Fabricius, 1775)

a. **Speyeria cybele cybele** (Fabricius, 1775)

Syst. Entomol.: 516, no. 311.

Original

Combination: *P[apilio]. N[ymphalis]. P[halerata]. Cybele*

Type Locality: "America"; defined as "New York City, New York County, New York" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 6.

Types: Syntype in BMNH; figured in Dunford (2009), Insecta Mundi 90: fig. 8 ♂ D&V.

= ‡*daphnis* (Cramer, 1775)
Uitl. Kapellen 1(5): 89, pl. 57, figs. E ♂ D, F ♂ V;
(8): 152 (index).

Original

Combination: *Pap[ilio]. Nymph[alis]. Phaler[ata]. Daphnis*

Type Locality: "ze te Nieuw-York en te Jamaika" "Nouvelle York & la Jamaïque"; neotype from "New York City, New York County, New York."

Types: Types probably lost. Neotype in BMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 6; this is also a syntype of *Papilio cybele*.

Preoccupied by *Papilio daphnis* [Denis & Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 182, no. 2.

= ‡"baal" (Strecker, 1878)
Butterflies & Moths N. Am., Comp. Syn. Cat.: 111, no. 193a.

Original Combination: [*Argynnis Cybele*] ab. a. ♂ *Baal*

Type Locality: "Ohio"; defined as "Toledo, Lucas County, Ohio" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 6.

Types: "Holotype" in FMNH.

- b. ***Speyeria cybele novascotiae*** (McDunnough, 1935)
Can. Entomol. 67(1): 18-19.

Original Combination: *Argynnis cybele novascotiae*

Type Locality: "White Point Beach, Queens Co., N. S." [Nova Scotia]

Types: Holotype (#3859) in CNC.

- c. ***Speyeria cybele krautwurmi*** (W. Holland, 1931)
Ann. Carnegie Mus. 20(2): 255-256; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 56, fig. 2 ♀ D (holotype).

Original Combination: *Argynnis cybele* var. *krautwurmi*

Type Locality: "Les Cheneaux, Upper Peninsula of Michigan" [Mackinac County]

Types: Holotype in CMNH.

- d. ***Speyeria cybele pseudocarpenteri*** (F. Chermock & R. Chermock, 1940)
Can. Entomol. 72(4): 82.

Original Combination: *Argynnis cybele pseudocarpenteri*

Type Locality: "Sand Ridge, Manitoba"

Types: Holotype (No. 4369) in CNC.

- e. ***Speyeria cybele carpenterii*** (W. H. Edwards, 1876)
Trans. Am. Entomol. Soc. 5(3/4): 204-205; figured by W. H. Edwards (1889), Butterflies N. Am. 3(8): pl. *Argynnis* 11, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Argynnis Carpenterii*

Type Locality: "New Mexico, above timber line"; defined as "Taos Peak, about 12,000 to 13,000 feet elevation" by W. H. Edwards (1889), *Butterflies N. Am.* 3(8): [138]; lectotype from "Taos Mtn N. M." [Taos Peak, Taos County, New Mexico]

Types: Lectotype in CMNH, designated by dos Passos and Grey (1947), *Am. Mus. Novit.* (1370): 7; figured by W. Holland (1931), *Butterfly Book* (rev. ed.): pl. 55, fig. 5 ♂ D (lectotype), 6 ♀ D (paralectotype), and F. Brown (1965), *Trans. Am. Entomol. Soc.* 91(3): 239, fig. 1 ♂ D&V.

- f. **Speyeria cybele charlottii** (W. Barnes, 1897)
Can. Entomol. 29(2): 39-40.

Original Combination: *Argynnis Charlottii*

Type Locality: "Glenwood Springs, Colo." [Garfield County, Colorado]

Types: Holotype in USNM; figured by W. Holland (1931), *Butterfly Book* (rev. ed.): pl. 56, fig. 1 ♀ D.

- g. **Speyeria cybele letona** dos Passos & Grey, 1945
Am. Mus. Novit. (1297): 1-2, figs. 3 ♂ D, 4 ♂ V (holotype).

Original Combination: *Speyeria cybele letona*

Type Locality: "City Creek Canyon, Salt Lake City, Utah, 4500 feet" [Salt Lake County]

Types: Holotype in AMNH.

- h. **Speyeria cybele leto** (Behr, 1862)
Proc. Calif. Acad. Sci. [1]2(12): 173, no. 3.

Original Combination: *Argynnis Leto*

Type Locality: "California" implied from title of paper, "peculiar to the western slope" from the description; neotype from "Near Carson City, Ormsby County, Nevada." [Ormsby County no longer exists]

Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CMNH, designated by dos Passos and Grey (1947), *Am. Mus. Novit.* (1370): 7-8; figured by W. Holland (1898), *Butterfly Book*: pl. 9, fig. 5 ♂ D, and J. Emmel *et al.* (1998), *Syst. W. N. Am. Butterflies* (6): 109, figs. 1 ♂ D, 2 ♂ V.

= *letis* (W. G. Wright, 1905)
Butterflies W. Coast: 52, no. 111; 130, no. 111, pl. 12, fig. 111 ♂ D (holotype).

Original Combination: [*Argynnis*
Leto var.] *Letis*; *Argynnis Letis* n. v.

Type Locality: "Northern California" "Sisson, Cal." [Mount Shasta City, Siskiyou County, California]

Types: Holotype (#4289) in CAS.

= *valesinoidesalba* (Reuss, [1926]) (emended)
Dtsche. Entomol. Z. 1926(1): 69.

Original Combination: [*Acidalia Semnopsyche*] *leto valesinoides-alba*

Type Locality: Not stated.

Types: Holotype in ZMHB.

= ‡"lethe" (Gunder, 1934)
Can. Entomol. 66(6): 125.

Original Combination: *Argynnis leto* tr. f. *lethe*

Type Locality: "Big Horn Mts., Wyoming"

Types: "Holotype" in AMNH.

- i. **Speyeria cybele pugetensis** F. Chermock & Frechin, 1947
Pan-Pac. Entomol. 23(3): 111-112.
Original Combination: *Speyeria cybele pugetensis*
Type Locality: "Stimson Creek, near Belfair, Mason County, Wash." [Washington]
Types: Holotype in AMNH.
- j. **Speyeria cybele eileenae** J. Emmel, T. Emmel & Mattoon, 1998
Syst. W. N. Am. Butterflies (12): 144, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V.
Original Combination: *Speyeria cybele eileenae*
Type Locality: "California: Humboldt County; Bear River Ridge Road, 0 to 5 road miles E of junction of Wildcat Road, 7 air miles SE of Ferndale, 2300' elevation"
Types: Holotype in LACM.
- 630. **Speyeria aphrodite** (Fabricius, 1787)
 - a. **Speyeria aphrodite cullasaja** Gatrell, 1998
Tax. Rep. Int. Lepid. Surv. 1(3): 2, figs. 1 ♂ D&V (holotype), 2 ♀ D&V.
Original Combination: *Speyeria aphrodite cullasaja*
Type Locality: "trail to Scaly Mountain, 4200', Macon Co., North Carolina"
Types: Holotype in MGCL.
 - b. **Speyeria aphrodite aphrodite** (Fabricius, 1787)
Mantissa Ins. 2: 62, no. 590.
Original Combination: *P[apilio]. M[ymphalis]. P[haleratus]. Aphrodite*
Type Locality: "America meridionali"; neotype from "New York City, New York County, New York."
Types: Type(s) lost; neotype in AMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 8; figured in Dunford (2009), Insecta Mundi 90: fig. 9 ♂ D&V.
 - = ‡"bartschi" (Reiff, 1910)
Psyche 17(6): 252-255, pl. 13, fig. 1 ♀ D&V.
Original Combination: *Argynnis cybele* forma *Bartschi*
Type Locality: "in West Roxbury, Mass." [Suffolk County, Massachusetts]
Types: "Holotype" in MCZ.
The text clearly indicates that this taxon was described as an individual variant.
 - = ‡"bakeri" (A. Clark, 1932)
Bull. U. S. Nat. Mus. (157): 276, pl. 19, figs. 1 ♂ D, 2 ♂ V ("holotype").
Original Combination: *Argynnis aphrodite* ab. *bakeri*
Type Locality: "Waynesburg, Ohio" [Stark County]
Types: "Holotype" in USNM.
This name was proposed (as *Dryas aphrodite bakeri*) by A. Clark, 1927, Ann. Assoc. Am. Geogr. 17(3): 126, without a description; a *nomen nudum*.
 - = ‡"hughi" A. Clark & L. Clark, 1951
Smithsonian Misc. Coll. 116(7): 60-61.

Original Combination: [*Speyeria aphrodite*]
ab. *hughi*

Type Locality: not stated in the original description; defined as "from a single bog in Essex, Mass." by A. Clark (1927), Ann. Assoc. Am. Geogr. 17(3): 126, where the name is *anomen nudum*. [Essex County, Massachusetts]
Types: "Holotype" probably in USNM.

- c. ***Speyeria aphrodite alcestis*** (W. H. Edwards, [1877])
Trans. Am. Entomol. Soc. 5(3/4): 289-291; figured by W. H. Edwards (1890), Butterflies N. Am. 3(10): pl. Argynnis 6, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Argynnis Alcestis*

Type Locality: "Northern Illinois, Iowa and Colorado"; defined as "Galena, Jo Davies County, Illinois" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 8.

Types: Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 8; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 241, fig. 2 ♀ D&V.

= ‡"suffusa" (Wolcott, 1916)
Entomol. News 27(3): 97-98, pl. 4, fig. 5 ♂ D ("holotype").

Original Combination: *Argynnis alcestis* n. aberr. *suffusa*

Type Locality: "bog south of Grand Rapids, Michigan" [Kent County]

Types: "Holotype" in OSU.

- d. ***Speyeria aphrodite ethne*** (Hemming, 1933)
Entomol. 66(847): 276, no. 10.

Original Combination: *Argynnis ethne*

Proposed to replace *Argynnis cypris* W. H. Edwards, 1886, with the same data (Code Article 60.3).

= ‡*cypris* (W. H. Edwards, 1886)
Can. Entomol. 18(4): 62-64, no. 2.

Original Combination: *Argynnis cypris*

Type Locality: "Arizona to Montana...Colorado...So. Colorado...Arizona...Colorado"; defined as "Bighorn, Treasure County, Montana" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 9; suggested to be "Big Horn Mountains, near Sheridan, Wyoming" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 245. [Sheridan County]

Types: Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 9; figured by W. Holland (1898), Butterfly Book: pl. 12, fig. 3 ♂ D, and F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 244, fig. 3 ♂ D&V.

Preoccupied by *Argynnis cypris* Meigen, [1828], Syst. Besch. Europ. Schmett. 1(2): 59-60, no. 13.

- e. ***Speyeria aphrodite byblis*** (W. Barnes & Benjamin, 1926)

Bull. South. Calif. Acad. Sci. 25(3): 91, no. 157d.

Original Combination: *Dryas aphrodite* race *byblis*

Type Locality: "White Mts., Ariz." [Arizona]

- Types:** Holotype in USNM.
- f. **Speyeria aphrodite columbia** (Hy. Edwards, 1877)
Pac. Coast Lepid. (26): [1].
Original Combination: *Argynnis Columbia*
Type Locality: "Lahache, near the Alaskan border of British Columbia"; further defined as "Lakes Lahache and Quesnelle, British Columbia" by W. H. Edwards [1878], Field & Forest 3(6): 102-103. [Lac La Hache]
Types: Lectotype in CMNH, designated by dos Passos & Grey, 1947, Amer. Mus. Novit. (1370): 9; figured in Holland, 1898, Butterfly Book: pl. 14, fig. 3 ♂ D.
= ‡*columbia* (W. H. Edwards, 1878)
Field & Forest 3(6): 102-103.
Original Combination: *Argynnis Columbia*
Type Locality: "Lakes Lahache and Quesnelle, British Columbia" [Lac La Hache]
Types: Type(s) in CMNH.
Preoccupied by *Argynnis columbia* Hy. Edwards, 1877, Pac. Coast Lepid. (26): [1].
- g. **Speyeria aphrodite whitehousei** (Gunder, 1932)
Can. Entomol. 64(12): 279-280.
Original Combination: *Argynnis whitehousei*
Type Locality: "Jaffray, B. C." [British Columbia]
Types: Holotype in AMNH.
- h. **Speyeria aphrodite manitoba** (F. Chermock & R. Chermock, 1940)
Can. Entomol. 72(4): 83.
Original Combination: *Argynnis manitoba*
Type Locality: "Sand Ridge, Manitoba"
Types: Holotype (#5129) in CNC.
= *mayae* dos Passos & Grey, 1947
Am. Mus. Novit. (1370): 8.
Original Combination: *Speyeria* (*S[emnopsyche]*).
aphrodite mayae
Dos Passos and Grey adopted *Argynnis aphrodite cypris* tr. fm. *mayae* Gunder, 1932, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).
= ‡"*mayae*" (Gunder, 1932)
Can. Entomol. 64(12): 279.
Original Combination: *Argynnis aphrodite cypris* tr. f. *mayae*
Type Locality: "Sand Ridge, Bener Dam Lake, near Kelwood, Man., Can." [Manitoba]
Types: "Holotype" in AMNH.
- i. **Speyeria aphrodite winni** (Gunder, 1932)
Can. Entomol. 64(12): 278-279.
Original Combination: *Argynnis aphrodite* race *winni*
Type Locality: "St. Calixte de Kilkenny, Que. (about 40 miles from Montreal)" [Quebec]
Types: Holotype in AMNH.
631. **Speyeria idalia** (Drury, 1773)
a. **Speyeria idalia idalia** (Drury, 1773)
Illustr. Nat. Hist. 1: 25, pl. 13, figs. 1 ♀ D, 2 ♂ D, 3 ♀ V (1770); 2: index (1773, name given).
Original Combination: *Nym[phalis]*. *Pha[eratus]*. *Idalia*

Type Locality: "New York"; neotype from "New York City, New York County, New York", labeled "West Farms, New York City."

Types: Neotype in AMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 9; figured in Dunford (2009), Insecta Mundi 90: fig. 6 ♂ D&V.

= *†astarte* (J. Fisher, [1859])
Proc. Acad. Nat. Sci. Philad. 10(13): 179-180, pl. 2 ♀ D&V.

Original Combination: *Argynnis astarte*

Type Locality: "Nova Caesarea...New Jersey...Succasunna Plains near Schooley's Mountain, in Morris Co."

Types: Holotype in FMNH.

Preoccupied by *Argynnis astarte* E. Doubleday, 1848, in: Gen. diurn. Lepid. (1)(21): 181.

= *ashtaroth* (J. Fisher, [1860])
Proc. Acad. Nat. Sci. Philad. 11(27): 352.

Original Combination: *Argynnis Ashtaroth*

Proposed to replace *Argynnis astarte* J. Fisher, [1859], with the same data (Code Article 60.3).

= *†"infumata"* (Oberthür, 1912)
Études Lépid. Comp. 6: 315, pl. 104, fig. 969 ♂ D&V.

Original Combination: *Argynnis Idalia-Infumata*

Type Locality: "Newark, N. J." [Essex County, New Jersey]

Types: "Holotype" in USNM.

= *†"doli"* (Gunder, 1927)
Can. Entomol. 59(12): 286, no. 20, pl. B, figs. 20 ♀ D, 20b ♀ V ("holotype").

Original Combination: *Argynnis idalia* tr. f. *doli*

Type Locality: "Richmond Hill, Long Island, N. Y." [Queens County, New York]

Types: "Holotype" in USNM.

b. Speyeria idalia occidentalis B. Williams, 2002
J. Lepid. Soc. 55(4): 146-147, fig. 2 upper left ♂ V, lower left ♀ V.

Original Combination: *Speyeria idalia occidentalis*

Type Locality: "1 mile S.E. of Crete, IL." [Will County, Illinois]

Types: Holotype in INHS.

= *†"pallida"* (Eisner, 1942)
Zool. Meded. 24(1/2): 124.

Original Combination: *Argynnis idalia* f. *pallida*

Type Locality: "Decorah, Iowa" [Winnebago County]

Types: "Holotype" in RMNH.

632. Speyeria nokomis (W. H. Edwards, 1862)

a. Speyeria nokomis coerulescens (W. Holland, 1900)
Entomol. News 10(11): 332-333; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 55, fig. 2 ♀ D (paralectotype), 3 ♂ D (lectotype), 4 ♀ V (paralectotype).

Original Combination: *Argynnis*

nitocris var. *coerulescens*

Type Locality: "State of Chihuahua, Mexico...at the head of the Rio Piedras Verdes, in Chihuahua, at an

elevation of from 7,100 to 7,300 feet above sea level in the Sierra Madre region"

Types: Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 10.

- b. **Speyeria nokomis nitocris** (W. H. Edwards, 1874)
Trans. Am. Entomol. Soc. 5(1): 15-16; figured by W. H. Edwards (1887), Butterflies N. Am. 3(1): pl. Argynnis 1, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Argynnis Nitocris*

Type Locality: "White Mountains, Arizona"

Types: Holotype in CMNH, designated as lectotype by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 10, but determined to be the holotype by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 256, fig. 5 ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 13, fig. 4 ♂ D.

- c. **Speyeria nokomis nokomis** (W. H. Edwards, 1862)
Proc. Acad. Nat. Sci. Philad. 14(5): 221-222, no. 1.

Original Combination: *Argynnis Nokomis*

Type Locality: "Rocky Mountains and mountains of California"; suggested to be "probably east of Ft. Apache, along the East Fork of the White River, Apache Co., Arizona" by Ferris and M. Fisher (1971), J. Lepid. Soc. 25(1): 47. The neotype is from "Sneffels Mts Ouray Co. Col." and Grey (1989), J. Lepid. Soc. 43(1): 2-3, corroborates that this species occurs near there. [Mount Sneffels, Colorado]

Types: Neotype (#36195) in AMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 9-10; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 248, fig. 4 ♂ D&V and Dunford (2009), Insecta Mundi 90: fig. 10 ♂ D&V.

S. nokomis occurred along the Uncompaghere River, near Ridgway, Ouray County, at least through the 1980's (A. Warren, pers. comm. 2006).

- = *nigrocaerulea* (W. Cockerell & T. Cockerell, 1900)
Entomol. News 11(10): 622; figured by W. Cockerell and T. Cockerell (1902), Birds & Nature: unnumbered plate.

Original Combination: *Argynnis*

nitocris var. *nigrocaerulea*

Type Locality: "Sapello Canon, Beulah, New Mexico" [San Miguel County]

Types: Holotype in USNM.

- = *valesinoidesalba* (Reuss, [1926]) (emended)
Dtsche. Entomol. Z. 1926(1): 69.

Original Combination: [*Acidalia*

Semnopsyche] *nokomis valesinoides-alba*

Type Locality: Not stated.

Types: Holotype in ZMHB.

It is impossible at this time to accurately place this taxon in the synonymy of *S. nokomis*.

- = ‡"rufescens" (T. Cockerell, 1909)
Entomol. Rec. & J. Var. 21(7/8): 186.

Original Combination: *Argynnis*

nitocris var. *nigracaerulea* [sic!] ab. *rufescens*

Type Locality: "At Beulah, in the Sapello Cañon" [San Miguel County, New Mexico]

Types: "Holotype" in USNM.

- d. **Speyeria nokomis tularosa** (R. Holland, 2010)
J. Res. Lepid. 42: 79, 79, figs. 1, ♂ D, 2 ♂ V, 3 ♂ D, 4 ♂ V, 5 ♀ D, 6 ♀ V (holotype), 7 ♀ D, 8 ♀ V.
Original Combination: *Argynnis nokomis tularosa*
Type Locality: "Mescalero, Tularosa River, Otero County, New Mexico, ca. 7000"
Types: Holotype in CMNH.
- e. **Speyeria nokomis apacheana** (Skinner, 1918)
Entomol. News 29(2): 67-68; cited W. H. Edwards (1868), Butterflies N. Am. 1: pl. *Argynnis* 4, figs. 1 ♂ D, 2 ♂ V (lectotype), 3 ♀ D, 4 ♀ V (as *Argynnis nokomis*).
Original Combination: *Argynnis apacheana*
Type Locality: "Arizona"; suggested to be "mountains west of Camp Independence" by F. Brown [1958], J. N. Y. Entomol. Soc. 65(3/4): 228-229; defined as "vicinity of Independance, Inyo Co., California" by F. Brown (1983), J. Lepid. Soc. 37(1): 79-80. [Inyo County]
Types: Lectotype (#7031) in CMNH, designated by F. Brown (1983), J. Lepid. Soc. 37(1): 79.
= ‡"hermosa" (J. A. Comstock, 1925)
Bull. South. Calif. Acad. Sci. 24(1): 3-4; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 23, fig. 4 ♂ D (holotype).
Original Combination: *Argynnis apacheana* aberration *hermosa*
Type Locality: "Round Valley, Inyo County, California"
Types: "Holotype" in LACM.
- f. **Speyeria nokomis carsonensis** Austin, 1998
Syst. W. N. Am. Butterflies (46): 573-574, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Speyeria nokomis carsonensis*
Type Locality: "Nevada: Douglas County; Carson Valley, Scossa Ranch, Nevada state route 206, 3.6 miles south of Nevada state route 207, 1463 m, T12N R19E S26 on USGS Freel Peak, Calif.-Nev. 15' quadrangle"
Types: Holotype in MGCL.
633. **Speyeria edwardsii** (Reakirt, 1866)
Proc. Entomol. Soc. Philad. 6(1): 137-139.
Original Combination: *Argynnis Edwardsii*
Type Locality: "California; Pikes Peak, Colorado Territory...Washington, D. C.?...Rocky Mountains...near Empire City, Colorado Territory, in the heart of the mountains only"; defined as "Pike's Peak, Teller County, Colorado" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 10; subsequently defined as "Empire, Clear Creek County, Colorado" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 257.
Types: Lectotype in FMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 10; figured in Dunford (2009), Insecta Mundi 90: fig. 12 ♂ D&V.
= *montana* (Reuss, 1927)
Dtsche. Entomol. Z. 1926(5): 439; cited Reuss (1922), Arch. Naturgesch. 87A(11): 205.
Original Combination: *A[cidalia]. edwardsi montana*
Type Locality: "Montana"
Types: Holotype in ZMHB.

- = ‡"edonis" (Gunder, 1934)
Can. Entomol. 66(6): 125.
Original Combination: *Argynnis edwardsii* tr.
f. *edonis*
Type Locality: "Beaver City, Larimer County,
Colorado (10-12,000 ft.)"
Types: "Holotype" in AMNH.
634. **Speyeria coronis** (Behr, 1864)
- a. **Speyeria coronis semiramis** (W. H. Edwards, 1886)
Can. Entomol. 18(4): 61-62, no. 1.
Original Combination: *Argynnis Semiramis*
Type Locality: "San Bernardino, California" [San
Bernardino County]
Types: Lectotype in CMNH, designated by dos Passos
and Grey (1947), Am. Mus. Novit. (1370): 11; figured by
F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 261,
fig. 6 ♂ D&V.
= ‡"bernardensis" (Gunder, 1933)
Can. Entomol. 65(8): 172-173.
Original Combination: *Argynnis semiramis* tr.
f. *bernardensis*
Type Locality: "Camp Wasew[a]gan for Boy
Scouts, San Bernardino Mts., San Bernardino
Co., Calif." [California]
Types: "Holotype" in AMNH.
- b. **Speyeria coronis hennei** (Gunder, 1934)
Can. Entomol. 66(6): 126-127.
Original Combination: *Argynnis hennei*
Type Locality: "near summit, elevation 7700 ft., Mt.
Pinos, Frazier Mountain Park, Santa Barbara Nat.
Forest, Ventura Co., Calif." [California]
Types: Holotype in AMNH.
- c. **Speyeria coronis coronis** (Behr, 1864)
In: W. H. Edwards, Proc. Entomol. Soc. Philad. 3(3):
435, no. 2; figured by W. H. Edwards (1868), Butterflies
N. Am. [1](8): pl. *Argynnis* 5, figs. 3 ♀ D, 4 ♀ V
(as *nevadensis*), and (1887), Butterflies N. Am. 3(2): pl.
Argynnis 14, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V
(as *nevadensis*).
Original Combination: *Argynnis Coronis*
Type Locality: "California" implied from the title of the
paper; defined as "Gilroy, [Santa Clara County]
California" by W. H. Edwards (1887), Butterflies N. Am.
3(2): [98]; subsequently defined as "Alma, Santa Clara
County, California" by dos Passos and Grey (1947), Am.
Mus. Novit. (1370): 11, in error.
Types: Neotype in CMNH; this specimen was first
designated as lectotype by dos Passos and Grey (1947),
Am. Mus. Novit. (1370): 11, but subsequently
determined not to be a syntype and redesignated as
neotype by dos Passos and Grey (1956), Trans. Am.
Entomol. Soc. 91(3): 353; figured by J. Emmel *et al.*
(1998), Syst. W. N. Am. Butterflies: 109, figs. 4 ♂ D, 5 ♂
V, and Dunford (2009), Insecta Mundi 90: fig. 13 ♂ D&V.
Behr (1862), Proc. Calif. Acad. Sci. [1]2(12): 173, no. 2,
discussed this species without naming it.
= *californica* (Skinner, 1917)



Entomol. News 28(7): 328; cited W. H. Edwards (1887), Butterflies N. Am. 3(2): pl. Argynnis 4, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V (as *coronis*).

Original Combination: *Argynnis californica*

Type Locality: "California...at Alma, Santa Clara County"

Types: Holotype (#7034) in CMNH; a paralectotype figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 56, fig. 5 ♂ V.

- d. **Speyeria coronis simaetha** dos Passos & Grey, 1945
Am. Mus. Novit. (1297): 2-3, figs. 5 ♂ D, 6 ♂ V (holotype).

Original Combination: *Speyeria coronis simaetha*

Type Locality: "Black Canyon, Cascade Mountains, near Brewster, Washington" [Okanogan County]

Types: Holotype in AMNH.

- e. **Speyeria coronis snyderi** (Skinner, 1897)

Can. Entomol. 29(6): 154.

Original Combination: *Argynnis Snyderi*

Type Locality: "Salt Lake City, Utah...Ogden"; defined as "City Creek Canyon, Salt Lake City, Salt Lake County, Utah" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 12.

Types: Lectotype (#7033) in CMNH, designated by dos Passos and Grey (1947), *ibid.*; paralectotype figured by W. Holland (1898), Butterfly Book: pl. 18, fig. 6 ♂ D.

- f. **Speyeria coronis halcyone** (W. H. Edwards, [1869])
Butterflies N. Am. [1](3): [81], pl. Argynnis 9, figs. 5 ♂ D, 6 ♂ V (1869), 3(9): pl. Argynnis 5, figs. 3 ♀ D, 4 ♀ V (1890).

Original Combination: *Argynnis Halcyone*

Type Locality: "Colorado"; defined as "Southern border of South Park, Park Co....along the road from Hartzel east to Howbert. The altitude varies a few feet above 7600 feet" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 159, suggested to be "Estes Park, Larimer County, Colorado" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 12; neotype labeled "Colo."

Types: Neotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 12; F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 265, fig. 7 ♂ D&V, suggested that this may be a syntype, and therefore the lectotype.

635. **Speyeria carolae** (dos Passos & Grey, 1942)

Am. Mus. Novit. (1214): 2-4, fig. 1(left) ♂ D&V.

Original Combination: *Argynnis coronis carolae*

Type Locality: "Charleston Park, Clark County, Nevada"

Types: Holotype in AMNH; figured in Dunford (2009), Insecta Mundi 90: fig. 15 ♂ D&V.

T. Emmel and Austin (1998), Syst. W. N. Am. Butterflies (34): 443-450, determined the species-level status of this taxon.

636. **Speyeria zerene** (Boisduval, 1852)

- a. **Speyeria zerene sitka** Hammond, Harry & McCorkle, 2001

Butterflies B. C.: 274-276, figs. ♂ D&V (holotype), ♀ D&V.

Original Combination: *Speyeria zerene sitka*

Type Locality: "AK, Haines" [Alaska]

Types: Holotype in CAS.

- b. ***Speyeria zerene bremnerii*** (W. H. Edwards, 1872)
Trans. Am. Entomol. Soc. 4(1/2): 61, 63-64, no. 4;
figured by W. H. Edwards (1874), Butterflies N. Am. 2(1):
pl. Argynnis 4, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Argynnis Bremnerii*

Type Locality: "San Juan Island" [San Juan County, Washington]

Types: Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 13; figured by W. Holland (1931), Butterfly Book (rev. ed.): 93, pl. 10, fig. 7 ♂ D, and F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 270, fig. 10 ♂ D&V.

= ‡"sordida" (W. G. Wright, 1905)
Butterflies W. Coast: 133, under no. 119.

Original Combination: [*Argynnis Bremneri*]
v. *Sordida*

Type Locality: "Puget Sound, Washington"
implied from the text.

Types: "Holotype" (#4326) in CAS; figured by Howe (1975), Butterflies N. Am.: pl. 31, fig. 5 ♂ D&V.

The text clearly indicates that this taxon was described as an individual variant. Gunder (1932), Can. Entomol. 64(12): 281, determined that the holotype is a worn specimen of *bremnerii*.

- c. ***Speyeria zerene hippolyta*** (W. H. Edwards, 1879)
Can. Entomol. 11(5): 81.

Original Combination: *Argynnis Hippolyta*

Type Locality: "Oregon...Northern California"; defined as "Oceanside, Tillamook County, Oregon" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 13.

Types: Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 13; figured by W. Holland (1931), Butterfly Book (rev. ed.): 93, pl. 12, fig. 10 ♂ D, F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 266, fig. 8 ♂ D&V, and Howe (1975), Butterflies N. Am.: pl. 22, figs. 9 ♂ D, 10 ♂ V.

- d. ***Speyeria zerene gloriosa*** Moeck, 1957

Geogr. var. *Speyeria*: 21, 24, unnumbered fig. ♂ D&V (holotype), ♀ D&V; fig. p. 23, 9 ♂ V, 6 ♀ V.

Original Combination: *Speyeria zerene gloriosa*

Type Locality: "Illinois River Valley, Josephine County, southwestern Oregon, on the road leading west from Selma, along the river, from about 1,600 feet elevation down to about 1,100 feet"

Types: Holotype in AMNH.

- e. ***Speyeria zerene behrensii*** (W. H. Edwards, 1869)
Trans. Am. Entomol. Soc. 2(4): 370-371; figured by W. H. Edwards (1868), Butterflies N. Am. [1](6): pl. Argynnis 12, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Argynnis Behrensii*

Type Locality: "Mendocino, California" [Mendocino County]

Types: Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 13. F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 269-271, fig. 9 ♂ D&V, noted that this specimen may not be one of the



original types; therefore the "lectotype" may need to be redesignated as neotype.

- f. **Speyeria zerene sonomensis** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butterflies (36): 455-456, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Speyeria zerene sonomensis*

Type Locality: "California: Sonoma County; south end of Sonoma Mountains, 1.5 air mi. N. of intersection of Lakeville Hwy. & Rt. 37, 175' elev."

Types: Holotype in LACM.

- g. **Speyeria zerene puntareyes** J. Emmel & T. Emmel, 1998

Syst. W. N. Am. Butterflies (35): 451-452, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Speyeria zerene puntareyes*

Type Locality: "California: Marin County; Point Reyes Peninsula; stabilized dunes 2.0 air miles SW of RCA radio towers (0.4 air mi. WSW of BM 157 on 1954 USGS 15' Pt. Reyes quadrangle)"

Types: Holotype in LACM.

- h. **Speyeria zerene myrtleae** dos Passos & Grey, 1945 †

Am. Mus. Novit. (1297): 3-4, figs. 7 ♂ D, 8 ♂ V (holotype).

Original Combination: *Speyeria zerene myrtleae*

Type Locality: "San Mateo, California" [San Mateo County]

Types: Holotype in AMNH.

- i. **Speyeria zerene monticola** (Behr, 1863)

Proc. Calif. Acad. Sci. [1]3(6): 84, no. 4.

Original Combination: *Argynnis monticola*

Type Locality: "California" implied from the title of the paper; "Yosemite Valley and some other localities of the Sierra Nevada" in the descripton; suggested to be "several localities in the Sierra Nevada" by Behr (1862), Proc. Calif. Acad. Sci. [1]2(12): 175, no. 8 [unnamed]; defined as "Yosemite Valley, Mariposa County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 12; neotype from "Mather, ca. 15 air miles NW of Yosemite Valley, Tuolumne County, California."

Types: Neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 97, figs. 7 ♂ D, 8 ♂ V. dos Passos and Grey (1947), Am. Mus. Novit. (1370): 12, designated a "lectotype" in the USNM, but J. Emmel *et al.* (1990), suggested this is not a syntype, and that a neotype was required.

- j. **Speyeria zerene malcolmi** (J. A. Comstock, 1920)

Southwest Sci. Bull. [1]: 4-5, pl. [1], figs. 4 ♂ D (holotype), 5 ♀ D, 6 ♂ V.

Original Combination: *Argynnis Malcolmi*

Type Locality: "Mammoth, Cal." [Mono County, California]

Types: Holotype in LACM.

= ‡"sineargentatus" (Gunder, 1927)

Can. Entomol. 59(12): 286, no. 19, pl. B, fig. 19 ♂ V ("holotype").

Original Combination: *Argynnis*

montivaga race *malcolmi* tr. f. *sineargentatus*

Type Locality: "Mammoth, Mono Co., Calif."
[California]

Types: "Holotype" in AMNH.

k. **Speyeria zerene zerene** (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 303, no. 44; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 258, figs. 2168 ♂ D&V (lectotype), 2169 ♀ D&V.

Original Combination: *Argynnis Zerene*

Type Locality: "au bord du bois, dans les montagnes peu élevées"; suggested to be "Yosemite Valley, Mariposa County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 12; defined as "Agua Fria (Mariposa Co.)" by Masters (1979), J. Lepid. Soc. 33(2): 137-138; subsequently defined as "Hwy. 70 at Chambers Creek, North Fork Feather River, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 17.

Types: Lectotype in USNM, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 12, figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies: 67, figs. 93 ♂ D, 94 ♂ V, and Dunford (2009), Insecta Mundi 90: fig. 14 ♂ D&V.

= *conchyliatus* (J. A. Comstock, 1925)

Bull. South. Calif. Acad. Sci. 24(3): 63; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 25, figs. 1 ♂ V (holotype).

Original Combination: *Argynnis*

zerene form *conchyliatus*

Type Locality: "Mt. Shasta, Calif." [Siskiyou County, California]

Types: Holotype in LACM.

= ‡"shastaensis" (J. A. Comstock, 1925)

Bull. South. Calif. Acad. Sci. 24(3): 65-66 LACM; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 26, fig. 1 ♂ D ("holotype").

Original Combination: *Argynnis*

zerene ab. *shastaensis*

Type Locality: "Mt. Shasta, Siskiyou Co."
[California]

Types: Holotype in.

l. **Speyeria zerene gunderi** (J. A. Comstock, 1925)

Bull. South. Calif. Acad. Sci. 24(3): 67-68; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 27, fig. 4 ♂ D (holotype).

Original Combination: *Argynnis gunderi*

Type Locality: "Modoc Co., Cal."; defined as "Mountains above Davis Creek ranger station, north of Alturas" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 11. [California]

Types: Holotype in LACM.

= *cynna* dos Passos & Grey, 1945

Am. Mus. Novit. (1297): 4-5, figs. 11 ♂ D, 12 ♂ V (holotype).

Original Combination: *Speyeria zerene cynna*

Type Locality: "Ruby Valley, Elko County, Nevada...Humboldt National Forest"

Types: Holotype in AMNH.

Grey (1989), J. Lepid. Soc. 43(1): 3, determined this synonymy.

- m. **Speyeria zerene picta** (McDunnough, 1924)
Can. Entomol. 56(2): 43.
Original Combination: [*Argynnis halcyone*] race *picta*
Type Locality: "Aspen Grove, B. C." [British Columbia]
Types: Holotype (#634) in CNC.
= *garretti* (Gunder, 1932)
Can. Entomol. 64(12): 282.
Original Combination: *Argynnis garretti*
Type Locality: "Cranbrook, B. C., Can." [British Columbia]
Types: Holotype in AMNH.
 - n. **Speyeria zerene platina** (Skinner, 1897)
Can. Entomol. 29(6): 154.
Original Combination: *Argynnis platina*
Type Locality: "Ogden, Utah...Beaver Canon, Idaho"; defined as "Ogden, Weber County, Utah" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 13.
Types: Lectotype (#7032) in CMNH, designated by dos Passos and Grey (1947), *ibid.*
= *pfoutsi* (Gunder, 1933)
Can. Entomol. 65(8): 171-172.
Original Combination: *Argynnis pfoutsi*
Type Locality: "Mt. Loafer, nr. Payson, Utah" [Utah County]
Types: Holotype in AMNH.
Grey (1989), J. Lepid. Soc. 43(1): 3, determined this synonymy.
 - o. **Speyeria zerene sinope** dos Passos & Grey, 1945
Am. Mus. Novit. (1297): 4, figs. 9 ♂ D, 10 ♂ V (holotype).
Original Combination: *Speyeria zerene sinope*
Type Locality: "Rocky Mountain National Park, Colorado, 8000 feet...in the Estes Park area" [Larimer County]
Types: Holotype in AMNH.
637. **Speyeria callippe** (Boisduval, 1852)
The subspecific arrangement for this species follows dos Passos and Grey (1947), Am. Mus. Novit. (1370): 14-16, Hammond (1986), J. Res. Lepid. 24(3): 197-208 and J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (72): 829-830, but see Arnold (1983), Ann. Entomol. Soc. Am. 76(6): 929-941.
- a. **Speyeria callippe adiateoides** J. Emmel, T. Emmel & Mattoon, 1998
Syst. W. N. Am. Butterflies (12): 150-151, figs. 43 ♂ D, 44 ♂ D (holotype); 45 ♀ V, 46 ♀ V.
Original Combination: *Speyeria callippe adiateoides*
Type Locality: "California: Mendocino County, Cahto Peak summit, 4000-4200 feet elevation"
Types: Holotype in LACM.
 - b. **Speyeria callippe liliana** (Hy. Edwards, 1877)
Proc. Calif. Acad. Sci. [1]7(13): 170.
Original Combination: *Argynnis Liliana*
Type Locality: "near St. Helena, Napa Co."; defined as "[Bale Station], near [Mount] St. Helena, Napa Co[unty]., California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 14.



Types: Lectotype (#4276) in AMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 14.

= *baroni* (W. H. Edwards, 1881)

Trans. Am. Entomol. Soc. 9(1): 2-3.

Original Combination: [*Argynnis Liliana*]

var. *Baroni*

Type Locality: "Northern California"; defined as "Bale Station, near Mount St. Helena, Napa County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 14, but F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 273, suggests "Mendocino, Lake or Sonoma counties."

Types: Holotype in USNM; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 272, fig. 11 ♂ D&V.

c. **Speyeria callippe callippe** (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 302, no. 43; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 258, fig. 2166 ♂ D&V, 2167 ♀ D&V.

Original Combination: *Argynnis callippe*

Type Locality: "au bord des forets"; defined as "San Francisco, San Francisco County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 14.

Types: Lectotype in USNM, designated by dos Passos and Grey (1947), *ibid.*; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 66, figs. 90 ♂ D, 91 ♂ V, and Dunford (2009), Insecta Mundi 90: fig. 16 ♂ D&V.

d. **Speyeria callippe comstocki** (Gunder, 1925)

Entomol. News 36(1): 8-9, no. 13, pl. 1, figs. 6 ♂ D, 7 ♀ D.

Original Combination: *Argynnis calippe* [sic!]

var. *comstocki*

Type Locality: "Los Angeles, Los Angeles County, California"

Types: Holotype in AMNH.

= ‡"creelmani" (Gunder, 1934)

Can. Entomol. 66(6): 127.

Original Combination: *Argynnis comstocki* tr. f. *creelmani*

Type Locality: "East San Diego, California" [San Diego County]

Types: "Holotype" in AMNH.

e. **Speyeria callippe macaria** (W. H. Edwards, 1877)

Field & Forest 3(5): 86-87.

Original Combination: *Argynnis Macaria*

Type Locality: "Havilah, California" [Kern County]

Types: Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 15; figured by W. Holland (1931), Butterfly Book (rev. ed.): 96, pl. 13, fig. 9 ♂ D and F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 283, fig. 15 ♂ D&V.

f. **Speyeria callippe laurina** (W. G. Wright, 1905)

Butterflies W. Coast: 53, no. 134; 138-139, no. 134, pl. 15, fig. 134 ♂ V (lectotype).

Original Combination: [*Argynnis*] *Laurina*; *Argynnis Laurina* n. v.

Type Locality: "Southern California...flies with *laura*"; defined as "Greenhorn Mountains, Kern County,

California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 16.

Types: Lectotype (#4290) in CAS, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 16.

= *wrighti* (W. G. Wright, 1905)

Butterflies W. Coast: 139, no. 134.

Original Combination: *Argynnis Wrighti*

This name was listed without a description or indication; a *nomen nudum*.

g. *Speyeria callippe rupestris* (Behr, 1863)

Proc. Calif. Acad. Sci. [1]3(6): 84, no. 3.

Original Combination: *Argynnis rupestris*

Type Locality: "California" implied from the title of the paper, "the steep rocky declivities characterizing the lower part of the Sierra at moderate elevation above the sea" from the description; defined as "Trinity Center, Trinity County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 15; neotype from "California: Mariposa County; Moore Creek Road 1.5 to 2 road miles south of Highway 120, elevation 3200'; S.35, T.1S., R.17E."

Types: Neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (12): 148-149, figs. 33 ♂ D, 34 ♂ V; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 109, figs. 10 ♂ D, 11 ♂ V. dos Passos and Grey (1947), Am. Mus. Novit. (1370): 15, designated a "lectotype" (in MGCL), but this is invalid (Code Article 74.2).

h. *Speyeria callippe inornata* (W. H. Edwards, 1872)

Trans. Am. Entomol. Soc. 4(1/2): 61, 64-65, no. 5;

figured by W. H. Edwards (1876), Butterflies N. Am. 2(4): pl. Argynnis 5, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Argynnis Inornata*

Type Locality: "at Downieville, California"; suggested to be "vicinity of Camptonville, Yuba County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (12): 149.

Types: Neotype in CMNH, designated by dos Passos and Grey (1965), Trans. Am. Entomol. Soc. 91(3): 354; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 274, fig. 12 ♂ D&V.

Grey (1989), J. Lepid. Soc. 43(1): 4-5, detailed the relationship between *S. c. inornata* and *S. c. juba*.

i. *Speyeria callippe juba* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 60, no. 54; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 262, fig. 2197 ♂ D&V, 2198 ♀ D&V.

Original Combination: *Argynnis Juba*

Type Locality: "les prairies élevées de la Juba"; defined as "Downieville, Sierra County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 15.

Types: Lectotype in USNM, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 15; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 76, figs. 255 ♂ D, 256 ♂ V.

= *laura* (W. H. Edwards, 1879)

Can. Entomol. 11(3): 49-50.

Original Combination: *Argynnis Laura*

Type Locality: "Nevada" implied from the title of paper; suggested to be "the region mountain-wards from Virginia City" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 277; defined as "vicinity of Downieville, canyon of the North Fork of the Yuba River, Sierra County, California" by Austin (1998), Syst. W. N. Am. Butterflies (50): 634.

Types: Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 15; figured by W. Holland (1898), Butterfly Book: pl. 12, fig. 11 ♂ D, F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 276, fig. 13 ♂ D&V, and Howe (1975), Butterflies N. Am.: pl. 29, fig. 3 ♂ D&V.

= *sierra* dos Passos & Grey, 1945
Am. Mus. Novit. (1297): 5-6, figs. 15 ♂ D, 16 ♂ V (holotype).

Original Combination: *Speyeria callippe sierra*

Type Locality: "Gold Lake, Sierra County, California"

Types: Holotype in AMNH.

Grey (1989), J. Lepid. Soc. 43(1): 4, determined this synonymy.

j. *Speyeria callippe hagemani* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butterflies (12): 150, figs. 39 ♂ D, 40 ♂ V (holotype); 41 ♀ D, 42 ♀ V.

Original Combination: *Speyeria callippe hagemani*

Type Locality: "California: Shasta County; Shingletown, 3500' elevation"

Types: Holotype in LACM.

k. *Speyeria callippe shasta* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butterflies (12): 149, figs. 35 ♂ D, 36 ♂ V (holotype); 37 ♀ D, 38 ♀ V.

Original Combination: *Speyeria callippe shasta*

Type Locality: "California: Shasta County; 8 road miles southeast of McCloud Arm bridge, elevation 1500', Lake Shasta"

Types: Holotype in LACM.

l. *Speyeria callippe elaine* dos Passos & Grey, 1945
Am. Mus. Novit. (1297): 5, figs. 13 ♂ D, 14 ♂ V (holotype).

Original Combination: *Speyeria callippe elaine*

Type Locality: "Butte Falls, Oregon" [Jackson County]

Types: Holotype in AMNH.

m. *Speyeria callippe semivirida* (McDunnough, 1924)
Can. Entomol. 56(2): 42-43.

Original Combination: [*Argynnis callippe*]
race *semivirida*

Type Locality: "Aspen Grove, B. C." [British Columbia]

Types: Holotype (#633) in CNC.

n. *Speyeria callippe chilcotinensis* C. Guppy & J. Shepard, 2001

Butterflies B. C.: 276-277, figs. ♂ D&V, ♀ D&V (holotype).

Original Combination: *Speyeria callippe chilcotinensis*

Type Locality: "BC, Riske Creek" [British Columbia]

Types: Holotype in BCPM.

- o. **Speyeria callippe nevadensis** (W. H. Edwards, 1870)
Trans. Am. Entomol. Soc. 3(1): 10, 14-15, no. 6; figured by W. H. Edwards (1890), Butterflies N. Am. 3(9): pl. Argynnis 5, figs. 1 ♂ D (neotype), 2 ♂ V.
Original Combination: *Argynnis Nevadensis*
Type Locality: "valleys of the Sierra, near Virginia City"; defined as "immediate neighborhood of Virginia...especially abundant near Washoe Lake" by W. H. Edwards (1871), Butterflies N. Am. [1](8): [94]; neotype from "Lake Washoe, Nevada." [Washoe County]
Types: Neotype in CMNH, designated by dos Passos and Grey (1965), Trans. Am. Entomol. Soc. 91(3): 355-356; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 279, fig. 14 ♂ D&V.
- p. **Speyeria callippe harmonia** dos Passos & Grey, 1945
Am. Mus. Novit. (1297): 6-7, figs. 17 ♂ D, 18 ♂ V (holotype).
Original Combination: *Speyeria callippe harmonia*
Type Locality: "Mount Wheeler (Snake Range near Utah border), Nevada" [White Pine County]
Types: Holotype in AMNH.
- q. **Speyeria callippe calgariana** (McDunnough, 1924)
Can. Entomol. 56(2): 42.
Original Combination: [*Argynnis nevadensis*] race *calgariana*
Type Locality: "Calgary...Alta."; suggested to be "the head of Pine Creek, Alberta (Township 22, Range 2, West of the 5th meridian)" by Kondla (1996), Alberta Naturalist 26(2): 39.
Types: Holotype (#632) in CNC.
- r. **Speyeria callippe gallatini** (McDunnough, 1929)
Can. Entomol. 61(5): 106-107.
Original Combination: *Argynnis nevadensis* var. *gallatini*
Type Locality: "Elkhorn Ranch, Upper Gallatin Canyon, Mont." [Gallatin County, Montana]
Types: Holotype (#2954) in CNC.
- s. **Speyeria callippe meadii** (W. H. Edwards, 1872)
Trans. Am. Entomol. Soc. 4(1/2): 61, 67-68, no. 7; figured by W. H. Edwards (1875), Butterflies N. Am. 2(3): pl. Argynnis 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Argynnis Meadii*
Type Locality: "Turkey Creek Junction, in Colorado"; defined as "Turkey Creek Junction, Colorado...Turkey Creek just south of Morrison, near Denver" probably "the junction of South Turkey Creek with Turkey Creek, a few miles up in the foothills" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 159; also see F. Brown (1956), Lepid. News 9(6): 185-190. [Jefferson County]
Types: Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 16; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 284, fig. 16 ♂ D&V.
= ‡"gerhardi" (Gunder, 1927)
Can. Entomol. 59(12): 287, no. 24, pl. B, figs. 24 ♂ D, 24a ♂ V ("holotype").
Original Combination: *Argynnis nevadensis* race *meadii* tr. f. *gerhardi*

Type Locality: "Colorado"; defined as "Turkey Creek Junction, Colorado" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 16. [Jefferson County]

Types: "Holotype" in FMNH.

638. **Speyeria egleis** (Behr, 1862)

- a. **Speyeria egleis tehachapina** (J. A. Comstock, 1920)
Southwest Sci. Bull: 6-9, pl. [1], figs. 7 ♂ V, 8 ♂ D (holotype); 9 ♀ D.

Original Combination: *Argynnis montivaga* var. *tehachapina*

Type Locality: "highest peak in Tehachapi Mts., California" [Kern County]

Types: Holotype in LACM.

- b. **Speyeria egleis egleis** (Behr, 1862)

Proc. Calif. Acad. Sci. [1]2(12): 174, no. 4

Original Combination: *A[rgynnis]. Egleis* Boisd.?

Type Locality: "California" implied from the title of the paper, "high up in the mountains" from the description; defined as "vicinity of Gold Lake, Sierra County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 17.

Types: Neotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 97, figs. 13 ♀ D, 14 ♀ V; figured by Dunford (2009), Insecta Mundi 90: fig. 17 ♀ D&V. This is the same specimen designated as the "lectotype" of *A. egleis* Boisduval, 1869, by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 17. J. Emmel *et al.* (1998), *ibid.*, demonstrated that this specimen could not have been a syntype.

Boisduval (1869), Annls. Soc. Entomol. Belg. 12: 59-60, no. 53 (see below), redescribed this taxon and dos Passos and Grey (1947), *ibid.*, designated the Boisduval specimen figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 261, fig. 2194 ♂ D&V, as the lectotype of Behr's name. This specimen is not a syntype of *S. e. egleis* Behr, 1862, thus, it is not a valid lectotype (Code Article 74.2).

= *montivaga* (Behr, 1863)

Proc. Calif. Acad. Sci. [1]3(6): 84, no. 2.

Original Combination: *Argynnis montivaga*

Type Locality: "California" implied from the title of the paper, "widely spread through the Sierra...at different localities...from an elevation of 10,500 feet" from the description; defined as "vicinity of Gold Lake, Sierra County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 17.

Types: Neotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 98. This is the same specimen designated as the neotype of *S. egleis*, making these names objective synonyms. The "lectotype" from the Boisduval collection designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 17, is invalid (see above).

= *egleis* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 59-60, no. 53; figured by Oberthür (1914), Étud. Lépid. Comp.

9(2): pl. 261, fig. 2194 ♂ D&V, pl. 262, fig. 2195 ♀ D&V.

Original Combination: *Argynnis Egleis*

Type Locality: "les lieux incultes et aux borde des forets, dans l'intérieur de la Californie"

Types: Lectotype in USNM, designated by dos Passos and Grey (1947), Am. Mus. Novit.

(1370): 17. This is the same specimen designated as the neotype of *S. e. egleis* (Behr, 1862) by J. Emmel *et al.* (1998). Preoccupied by *Argynnis egleis* Behr, 1862, Proc. Calif. Acad. Sci. [1]2(12): 174, no. 4, and a junior objective synonym of that name (see above).

- = *†astarte* (W. H. Edwards, 1864)
Proc. Entomol. Soc. Philad. 3(3): 434, 435, no. 4.

Original Combination: *Argynnis Astarte*

Type Locality: "Mountainous regions of California"; defined as "Gold Lake, Sierra County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 17.

Types: Neotype in FMNH, designated by dos Passos and Grey (1947), *ibid.*; this is the lectotype of *Argynnis egleis* Behr, 1862. Preoccupied by *Argynnis astarte* E. Doubleday 1848, *in*: Gen. diurn. Lepid. (1)(21): 181.

- = *†"mammothi"* (Gunder, 1924)
Entomol. News 35(5): 157, pl. 2, fig. H ♂ D ("holotype").

Original Combination: *Argynnis montivaga* ab. ♂ *mammothi*

Type Locality: "Mammoth Camp, Mono County, California"

Types: "Holotype" possibly in LACM (Riddell collection).

- = *†"boharti"* (Gunder, 1930)
Bull. Brooklyn Entomol. Soc. 24(5): 326-327, pl. 31, fig. 5 ♀ D&V ("holotype").

Original Combination: *Argynnis montivaga* tr. f. *boharti*

Type Locality: "Mono Pass Trail (Yosemite to Mono Lake), Calif." [California]

Types: "Holotype" in AMNH.

- c. *Speyeria egleis oweni* (W. H. Edwards, 1892)
Can. Entomol. 24(5): 105-106, no. [1] (not 2 as given).

Original Combination: *Argynnis Oweni*

Type Locality: "Mt. Shasta, elevation 7,500 feet" [Siskiyou County, California]

Types: Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 17; figured by W. Holland (1898), Butterfly Book: pl. 12, fig. 5 ♂ D, and F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 294, fig. 19a ♂ V.

- d. *Speyeria egleis mattooni* J. Emmel & T. Emmel, 1998
Syst. W. N. Am. Butterflies (33): 438, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Speyeria egleis mattooni*

- Type Locality:** "California: Siskiyou County; Dry Lake Mountain, U. S. Forest Service Road 40S01, Siskiyou Mountains"
- Types:** Holotype in LACM.
- e. ***Speyeria egleis yolaboli*** J. Emmel & T. Emmel, 1998
Syst. W. N. Am. Butterflies (33): 439, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.
Original Combination: *Speyeria egleis yolaboli*
Type Locality: "California: Tehama County; South Yolla Bolly Mountain"
Types: Holotype in LACM.
- f. ***Speyeria egleis moecki*** Hammond & Dornfeld, 1983
J. Lepid. Soc. 37(2): 115-117, fig. 1 ♂ D&V (holotype) ♀ D&V.
Original Combination: *Speyeria egleis moecki*
Type Locality: "Skookum Mdw., Walker Rim, Klamath Co., Ore." [Oregon]
Types: Holotype in AMNH.
- g. ***Speyeria egleis toiyabe*** Howe, 1975
Butterflies N. Am.: 237, pl. 31, fig. 14 ♂ D&V (holotype).
Original Combination: *Speyeria egleis toiyabe*
Type Locality: "Kingston Canyon, Toiyabe Range, Lander County, Nevada"
Types: Holotype in LACM.
- h. ***Speyeria egleis reidi*** Austin, 1998
Syst. W. N. Am. Butterflies (46): 574-575, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.
Original Combination: *Speyeria egleis reidi*
Type Locality: "Nevada: White Pine County; Snake Range, Wheeler Peak Campground, 3033 m, T13N R68E (unsectioned) on USGS Sacramento Pass, Nev. 15' quadrangle"
Types: Holotype in MGCL.
- i. ***Speyeria egleis linda*** (dos Passos & Grey, 1942)
Am. Mus. Novit. (1214): 1-2, fig. 1(right) ♂ D&V (holotype).
Original Combination: *Argynnis utahensis linda*
Type Locality: "Heyburn Peak, Sawtooth-Boise, Idaho, 9500-10,000 feet" [Custer County]
Types: Holotype in AMNH.
- j. ***Speyeria egleis utahensis*** (Skinner, 1919)
Entomol. News 30(8): 216.
Original Combination: *Argynnis utahensis*
Type Locality: "City Creek Canyon, Salt Lake City, Utah" [Salt Lake County]
Types: Holotype (#7036) in CMNH; a paratype figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 56, fig. 3 ♂ V.
- k. ***Speyeria egleis secreta*** dos Passos & Grey, 1945
Am. Mus. Novit. (1297): 7-8, figs. 19 ♂ D, 20 ♂ V (holotype).
Original Combination: *Speyeria montivaga secreta*
Type Locality: "Rocky Mountain National Park, Colorado, 8000 feet...in the Estes Park area" [Larimer County]; more likely to be from Rabbit Ears Pass, Routt-Grand counties, Colorado (A. Warren pers. comm. 2006).
Types: Holotype in AMNH.

- I. **Speyeria egleis macdunnoughi** (Gunder, 1932)
Can. Entomol. 64(12): 280-281.
Original Combination: *Argynnis macdunnoughi*
Type Locality: "Elkhorn Ranch Resort, Gallatin County, Mont...up what they call (at the Resort) Spring Creek for about half a mile, the path branches to the right about where the water ceases to flow and rises sharply over a ridge, ending in an open meadow"; "7000 feet, Upper Gallatin Canyon" added by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 18.
Types: Holotype (#3655) in CNC.
 - m. **Speyeria egleis albrighti** (Gunder, 1932)
Can. Entomol. 64(12): 281-282.
Original Combination: *Argynnis albrighti*
Type Locality: "Highwood Mts., Chouteau County, Montana"
Types: Holotype in AMNH.
639. **Speyeria adiaeste** (W. H. Edwards, 1864)
- a. **Speyeria adiaeste adiaeste** (W. H. Edwards, 1864)
Proc. Entomol. Soc. Philad. 3(3): 436, no. 7; figured by W. H. Edwards (1890), Butterflies N. Am. 3(10): pl. Argynnis 8, figs. 1 ♂ D, 2 ♂ V (lectotype), 3 ♀ D (as *adiante*).
Original Combination: *Argynnis Adiaeste*
Type Locality: "California" implied from the title of paper; defined as "Santa Cruz, Santa Cruz County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 16; F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 289, noted that this taxon is not found in the immediate vicinity of the city of Santa Cruz, but about 9 miles north of it; see *adiante*.
Types: Lectotype in CMNH, designated by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 291, fig. 17 ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 14, fig. 4 ♂ D, J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 76, figs. 261 ♂ D, 262 ♂ V, and Dunford (2009), Insecta Mundi 90: fig. 19 ♂ D&V. This is also the lectotype of *adiante* below.
Grey (1989), J. Lepid. Soc. 43(1): 4, corroborated the species-level status of this taxon.
= ‡*adiante* (Boisduval, 1869)
Annls. Soc. Entomol. Belg. 12: 61, no. 57
Original Combination: *Argynnis Adiante*
Type Locality: "au bord des bois, dans la partie orientale de la Californie"; defined as "Santa Cruz Mountains, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 16; further defined as "2 miles southeast of Summit Road along Highland Way, Santa Cruz Mountains, Santa Cruz County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies: 34.
Types: Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 16. This is also the lectotype of *adiaeste* and a junior objective synonym of that name.
 - b. **Speyeria adiaeste clemencei** (J. A. Comstock, 1925)
Bull. South. Calif. Acad. Sci. 24(3): 67; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 28, figs. 7 ♂ D.

Original Combination: *Argynnis adiaspe* race *clemencei*

Type Locality: "Atascadero, Calif." [San Luis Obispo County, California]

Types: Holotype in LACM.

- c. **Speyeria adiaspe atossa** (W. H. Edwards, 1890) †

Butterflies N. Am. 3(10): [127]-[128], pl. *Argynnis* 8, figs. 4 ♂ D, 5 ♂ V, 6 ♀ D.

Original Combination: *Argynnis Atossa*

Type Locality: "North American...Tehachipe [sic!], south California...in a little valley about four miles from town, by a small stream" [Tehachapi, Kern County]

Types: Lectotype in CMNH, designated by dos Passos & Grey (1947), Am. Mus. Novit. (1370): 17; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 292, fig. 18 ♀ D&V; a paralectotype figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 13, fig. 12 ♂ D.

= *tejonica* (J. A. Comstock, 1925)

Bull. South. Calif. Acad. Sci. 24(3): 68; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 28, fig. 6 ♂ V.

Original Combination: *Argynnis*

atossa form *tejonica*

Type Locality: "Tejon region (Collins Ranch), California" [Los Angeles County]

Types: Holotype in LACM.

640. **Speyeria atlantis** (W. H. Edwards, 1862)

- a. **Speyeria atlantis atlantis** (W. H. Edwards, 1862)

Proc. Acad. Nat. Sci. Philad. 14(1/2): 54-55, no. 1; figured by W. H. Edwards (1868), Butterflies N. Am. 1: pl. *Argynnis* 5, figs. 1 ♂ D, 2 ♂ V, 3 ♂ V.

Original Combination: *Argynnis atlantis*

Type Locality: "mountainous districts of the northern states and to parts of British America...Catskill Mountains, near the Mountain House...White Mountains...Williamstown, Mass...Lake Winnepeg...near Hudson's Bay...also...north side of Lake Superior"; defined as "Hunter, Green County, New York" by dos Passos (1935), Can. Entomol. 67(4): 85; lectotype labeled "Catskills."

Types: Lectotype in CMNH, designated by dos Passos (1935), Can. Entomol. 67(4): 85, and again by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 18; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 296, fig. 20 ♂ D&V, and Dunford (2009), Insecta Mundi 90: fig. 20 ♂ D&V.

= ‡"chemo" (Scudder, 1889)

Butterflies East. U. S. and Can. 1(4): 573-574.

Original Combination: *A[rgynnis]. a[tlantis]* [ab]. *chemo*

Type Locality: "Lake Chemo, ten miles northeast of Bangor, Me." [Penobscot County, Maine]

Types: "Lectotype" (#25828) in MCZ, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 18.

- b. **Speyeria atlantis canadensis** (dos Passos, 1935)

Can. Entomol. 67(4): 85-87.

- Original Combination:** *Argynnis atlantis canadensis*
Type Locality: "Doyles Station, Newfoundland"
 [Newfoundland and Labrador]
Types: Holotype in AMNH; figured by Dunford (2009),
 Insecta Mundi 90: fig. 21 ♂ D&V.
- c. *Speyeria atlantis hollandi*** (F. Chermock & R.
 Chermock, 1940)
 Can. Entomol. 72(4): 82-83.
Original Combination: *Argynnis atlantis hollandi*
Type Locality: "Riding Mountains, Manitoba"
Types: Holotype (#4370) in CNC; figured by Dunford
 (2009), Insecta Mundi 90: fig. 22 ♂ D&V.
- d. *Speyeria atlantis pahasapa*** Spomer, Scott & Kondla,
 1998
 Papilio (n.s.) 8: 13, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D,
 4 ♀ V, 5 ♂ D, 6 ♂ D, 7 ♂ V, 8 ♂ V, 9 ♂ V.
Original Combination: *Speyeria atlantis pahasapa*
Type Locality: "Deerfield Reservoir, Pennington Co., S.
 D." [South Dakota]
Types: Holotype in AMNH; figured by Dunford (2009),
 Insecta Mundi 90: fig. 24 ♂ D&V.
- e. *Speyeria atlantis sorocko*** Scott, Kondla & Spomer,
 1998
 Papilio (n.s.) 8: 13, figs. 10 ♂ V (holotype), 11 ♀ V, 12 ♂
 D, 13 ♂ V, 14 ♀ D, 15 ♀ V.
Original Combination: *Speyeria atlantis sorocko*
Type Locality: "several km NE of Mt. Judge, 9100 feet
 altitude, Clear Creek Co., Colo." [Colorado]
Types: Holotype in AMNH; figured by Dunford (2009),
 Insecta Mundi 90: fig. 23 ♂ D&V.
- 641. *Speyeria hesperis*** (W. H. Edwards, 1864)
 This was treated as a species-level taxon by Scott *et al.*
 (1998), Papilio (n.s.) 8: 1-31, and other recent authors.
- a. *Speyeria hesperis irene*** (Boisduval, 1869)
 Annls. Soc. Entomol. Belg. 12: 59-60, under no. 53;
 figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl.
 262, fig. 2196 ♀ D&V.
Original Combination: [*Argynnis Egleis* variété] *Irene*
Type Locality: "les lieux incultes et aux borde des
 forets, dans l'intérieur de la Californie"; defined as
 "Massack, Plumas County, California" by dos Passos
 and Grey (1947), Am. Mus. Novit. (1370): 20; suggested
 to be "Gold Lake, Sierra County, California" by J.
 Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 33.
Types: Lectotype in USNM, designated by dos Passos
 and Grey (1947), Am. Mus. Novit. (1370): 20; figured by
 J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2):
 33, figs. 252 ♀ D, 253 ♀ V, and Dunford (2009), Insecta
 Mundi 90: fig. 33 ♀ D&V.
- b. *Speyeria hesperis hanseni*** J. Emmel, T. Emmel &
 Mattoon, 1998
 Syst. W. N. Am. Butterflies (12): 152, figs. 47 ♂ D, 48 ♂
 D (holotype); 49 ♀ D, 50 ♀ V.
Original Combination: *Speyeria atlantis hanseni*
Type Locality: "California: Tehama County; Anthony
 Peak on Covelo Road"
Types: Holotype in LACM; figured by Dunford (2009),
 Insecta Mundi 90: fig. 34 ♂ D&V.

- c. **Speyeria hesperis cottlei** (J. A. Comstock, 1925)
Bull. South. Calif. Acad. Sci. 24(3): 64-65; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 26, fig. 1 ♀ V (holotype).
Original Combination: *Argynnis cottlei*
Type Locality: "near Alturas, Modoc Co., Calif."
[California]
Types: Holotype in LACM.
J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (12): 151-152, treated this taxon at the subspecies-level, and suggested that *dodgei* might be considered a synonym.
- d. **Speyeria hesperis dodgei** (Gunder, 1931)
Bull. South. Calif. Acad. Sci. 30(2): 46.
Original Combination: *Argynnis dodgei*
Type Locality: "Diamond Lake, Douglas Co., Oregon"
Types: Holotype in AMNH; figured by Dunford (2009), Insecta Mundi 90: fig. 35 ♂ D&V.
- e. **Speyeria hesperis elko** Austin, 1984
J. Lepid. Soc. 37(3): 244-247, figs. 1 upper left ♂ D, 2 upper right ♂ V (holotype), 1 lower left ♀ D, 2 lower left ♀ V.
Original Combination: *Speyeria atlantis elko*
Type Locality: "Nev(ada): Elko Co(nty); Owyhee R(iver). Valley, Wildhorse Creek Campg(round)., ca. 10 mi(les). S(outh). (of) Mountain City"
Types: Holotype in NVMC; figured by Dunford (2009), Insecta Mundi 90: fig. 37 ♂ D&V.
- f. **Speyeria hesperis greyi** Moeck, 1950
Entomol. News 61(3): 61-62, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Speyeria atlantis greyi*
Type Locality: "Lamoille Canyon, Ruby Mountains, Elko County, Nevada...at an elevation of about 8,500 feet"
Types: Holotype in AMNH; figured by Dunford (2009), Insecta Mundi 90: fig. 31 ♂ D&V.
- g. **Speyeria hesperis chitone** (W. H. Edwards, 1879)
Can. Entomol. 11(5): 82.
Original Combination: *Argynnis chitone*
Type Locality: "Southern Utah and Arizona"; defined as "Cedar Breaks National Monument, Iron County, Utah" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 19.
Types: Lectotype in CMNH, designated by dos Passos and Grey (1947), *ibid.*; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 305, fig. 23 ♂ D&V, and Dunford (2009), Insecta Mundi 90: fig. 40 ♂ D&V.
- h. **Speyeria hesperis schellbachii** Garth, 1949
Bull. South. Calif. Acad. Sci. 48(1): 1-2, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Speyeria atlantis schellbachii*
Type Locality: "Neal Springs, North Rim, Grand Canyon National Park, Coconino County, Arizona, 8,175 feet"
Types: Holotype (#471) in LACM; figured by Dunford (2009), Insecta Mundi 90: fig. 43 ♂ D&V.
- i. **Speyeria hesperis tetonia** dos Passos & Grey, 1945
Am. Mus. Novit. (1297): 9-10, figs. 27 ♂ D, 28 ♂ V (holotype).
Original Combination: *Speyeria atlantis tetonia*

- Type Locality:** "Teton Mountains region, Wyoming...Teton Mountains" [Teton County]
Types: Holotype in AMNH; figured by Dunford (2009), Insecta Mundi 90: fig. 38 ♂ D&V.
 = *wasatchia* dos Passos & Grey, 1945
 Am. Mus. Novit. (1297): 8, figs. 25 ♂ D, 26 ♂ V (holotype).
Original Combination: *Speyeria atlantis wasatchia*
Type Locality: "Payson Canyon, Payson, Utah" [Utah County]
Types: Holotype in AMNH; figured by Dunford (2009), Insecta Mundi 90: fig. 39 ♂ D&V.
 This taxon was considered to be a synonym of *S. h. chitone* by Hammond (1991), J. Res. Lepid. 29(1/2): 59 (as *S. atlantis chitone*), and a synonym of *S. h. tetonia* by Scott *et al.* (1998), Papilio (n.s.) 8: 6, where *tetonia* was given priority over *wasatchia*.
- j. ***Speyeria hesperis viola*** dos Passos & Grey, 1945
 Am. Mus. Novit. (1297): 10, figs. 29 ♂ D, 30 ♂ V (holotype).
Original Combination: *Speyeria atlantis viola*
Type Locality: "Sawtooth Mountains, Idaho...Trail Creek, 7400 feet" [Custer County]
Types: Holotype in AMNH; figured by Dunford (2009), Insecta Mundi 90: fig. 36 ♂ D&V.
- k. ***Speyeria hesperis hutchinsi*** dos Passos & Grey, 1947
 Am. Mus. Novit. (1370): 20.
Original Combination: *Speyeria atlantis hutchinsi*
 dos Passos & Grey adopted *Argynnis atlantis beani* tr. f. *hutchinsi* Gunder, 1932, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).
 = ‡"hutchinsi" (Gunder, 1932)
 Can. Entomol. 64(12): 280.
Original Combination: *Argynnis atlantis beani* tr. f. *hutchinsi*
Type Locality: "Twp 2N Range 1W, Jefferson County, Mont." [Montana]
Types: Holotype in AMNH.
- l. ***Speyeria hesperis brico*** Kondla, Scott & Spomer, 1998
 Papilio (n.s.) 8: 14, figs. 24 ♂ V, 25 ♀ V.
Original Combination: *Speyeria hesperis brico*
Type Locality: "Castle Creek Forest Service Rd. Km 23.5, Cariboo Mts. (25 air km due S of McBride), B.C." [British Columbia]
Types: Holotype in CNC; figured by Dunford (2009), Insecta Mundi 90: fig. 29 ♂ D&V.
- m. ***Speyeria hesperis beani*** (W. Barnes & Benjamin, 1926)
 Bull. South. Calif. Acad. Sci. 25(3): 92, no. 160b.
Original Combination: *Dryas atlantis* race *beani*
Type Locality: "Banff, Alta." [Alberta]
Types: Holotype in USNM; figured by Dunford (2009), Insecta Mundi 90: fig. 28 ♂ D&V.
- n. ***Speyeria hesperis dennisi*** dos Passos & Grey, 1945
 Am. Mus. Novit. (1370): 20.
Original Combination: *Speyeria atlantis dennisi*

- dos Passos & Grey adopted *Argynnis lais* tr.
f. *dennisi* Gunder, 1927, to represent a subspecies-level
taxon, with the same data (Code Articles 10.2, 45.5.1).
= ‡"dennisi" (Gunder, 1927)
Can. Entomol. 59(12): 287, no. 21, pl. B, figs. 21
♂ D, 21a ♂ V (holotype).
Original Combination: *Argynnis lais* tr.
f. *dennisi*
Type Locality: "Beulah, Man., Can." [Manitoba]
Types: Holotype in AMNH; figured by Dunford
(2009), *Insecta Mundi* 90: fig. 27 ♂ D&V.
- = *helenae* dos Passos & Grey, 1957
J. N. Y. Entomol. Soc. 63: 95-96.
Original Combination: *Speyeria (Speyeria) atlantis*
helenae
Proposed to replace *Argynnis lais* W. H. Edwards,
1884, Can. Entomol. 15(11): 209, with the same
data. See *Boloria eunomia*
tricularis synonym *lais* (Scudder, 1875).
= ‡*lais* (W. H. Edwards, [1884])
Can. Entomol. 15(11): 209; figured by W. H.
Edwards (1887), *Butterflies N. Am.* 3(1): pl.
Argynnis 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Argynnis Lais*
Type Locality: "Red Deer River"; corrected to
"Fort Edmonton" by Geddes [1884], Can.
Entomol. 15(12): 222. [Alberta]
Types: Lectotype in CMNH, designated by dos
Passos and Grey (1947), *Am. Mus. Novit.*
(1370): 20; figured by F. Brown (1965), *Trans.*
Am. Entomol. Soc. 91(3): 326, fig. 26 ♂ D&V,
and Dunford (2009), *Insecta Mundi* 90: fig. 26 ♂
D&V.
Preoccupied by *Argynnis lais* Scudder (1875),
Proc. Boston Soc. Nat. Hist. 17(3): [294]-296.
- o. *Speyeria hesperis lurana*** dos Passos & Grey, 1945
Am. Mus. Novit. (1297): 8-9, figs. 23 ♂ D, 24 ♂ V
(holotype).
Original Combination: *Speyeria atlantis lurana*
Type Locality: "Black Hills of South Dakota...Harney
Peak" [Custer County]
Types: Holotype in AMNH; figured by Dunford (2009),
Insecta Mundi 90: fig. 32 ♂ D&V.
- p. *Speyeria hesperis hesperis*** (W. H. Edwards, 1864)
Proc. Entomol. Soc. Philad. 2(4): 501, 502-503, no. 3;
figured by W. H. Edwards (1868), *Butterflies N. Am.*
[1](2): pl. *Argynnis* 7, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Argynnis Hesperis*
Type Locality: "Rocky Mountains"; defined as "Turkey
Creek Junction, Jefferson County, Colorado" by dos
Passos and Grey (1947), *Am. Mus. Novit.* (1370): 19.
Types: Neotype in CMNH, first designated as lectotype
by dos Passos and Grey (1947), *Am. Mus. Novit.* (1370):
19, but it is not a syntype; subsequently neotypified by
dos Passos and Grey (1965), *Trans. Am. Entomol. Soc.*
91(3): 356; figured by W. Holland (1898), *Butterfly Book*:
pl. 12, fig. 1 ♂ D, F. Brown (1965), *Trans. Am. Entomol.*
Soc. 91(3): 299, fig. 21 ♂ D&V, and Dunford (2009),
Insecta Mundi 90: fig. 25 ♂ D&V.

- q. **Speyeria hesperis ratonensis** Scott, 1981
 Papilio (n.s.) 1: 4; figured by Scott (1998), Papilio (n.s.) 8: figs. 30 ♂ D, 31 ♂ V, 32 ♀ D, 33 ♀ V.
Original Combination: *Speyeria atlantis ratonensis*
Type Locality: "Raton Mesa, Colfax Co., New Mexico"
Types: Holotype in LACM; figured by Dunford (2009), Insecta Mundi 90: fig. 30 ♂ D&V.
- r. **Speyeria hesperis electa** (W. H. Edwards, 1878)
 Field & Forest 3(9): 143-144.
Original Combination: *Argynnis Electa*
Type Locality: "Colorado...in the north of that state...and taken in the South"; defined as "Rocky Mountain National Park, Colorado" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 20; suggested to be "Turkey Creek Junction in Jefferson County" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 306, 308, subsequently defined as "Twin Lakes, Lake Co." by Scott *et al.* (1998), Papilio (n.s.) 8: 10.
Types: Lectotype in CMNH, designated by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 75; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 307, fig. 24 ♂ D&V, and Dunford (2009), Insecta Mundi 90: fig. 41 ♂ D&V.
- = *cornelia* (W. H. Edwards, 1892)
 Can. Entomol. 24(5): 106-107, no. 2.
Original Combination: *Argynnis Cornelia*
Type Locality: "Ouray, and Manitou, Colorado, and in the adjacent districts...Crested Butte in the Ouray region"; defined as "Ouray, Ouray County, Colorado" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 20.
Types: Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 20; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 311, fig. 25 ♂ D&V.
- = *nikias* (Ehrmann, 1917)
 Lepidopterist 1(7): 55-56.
Original Combination: *Argynnis nikias*
Type Locality: "Temez [*sic!*] Springs, New Mexico" [Jemez Springs, Sandoval County]
Types: Lectotype (#7815) in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 19; figured by Dunford (2009), Insecta Mundi 90: fig. 42 ♂ D&V.
- s. **Speyeria hesperis dorothea** Moeck, 1947
 Entomol. News 58(3): 73-75, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Speyeria atlantis dorothea*
Type Locality: "Sandia Peak" [Sandia Mountains, Sandoval County, New Mexico]
Types: Holotype in AMNH; figured by Dunford (2009), Insecta Mundi 90: fig. 45 ♂ D&V.
- t. **Speyeria hesperis capitanensis** R. Holland, 1988
 Bull. Allyn. Mus. (115): 2-3, fig. 4 ♂&♀ D&V (top row holotype).
Original Combination: *Speyeria atlantis capitanensis*
Type Locality: "Padilla Point, crest of Capitan Ridge, Capitan Mts., Lincoln Co., NM." [New Mexico]

Types: Holotype in AMNH; figured by Dunford (2009), *Insecta Mundi* 90: fig. 46 ♂ D&V.

- u. ***Speyeria hesperis nausicaa*** (W. H. Edwards, 1874)
Trans. Am. Entomol. Soc. 5(2): 104-105; figured by W. H. Edwards (1888), *Butterflies N. Am.* 3(4): pl. *Argynnis* 10, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Argynnis Nausicaa*

Type Locality: "Rocky Canon, Arizona"; further defined as "Graham County" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 301.

Types: Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 19; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 302, fig. 22 ♂ D&V, and Dunford (2009), *Insecta Mundi* 90: fig. 44 ♂ D&V.

- = *arizonensis* (Elwes, 1889)
Trans. Entomol. Soc. Lond. (4)1889(4): 546;
cited Mead (1875), Rep. Coll. diurn. Lepid.
5(Zool.): 752.

Original Combination: [*Argynnis ?aphrodite*]
forma *arizonensis*

Type Locality: "Arizona (Wheeler Expedition)...also in Colorado"; suggested to be "Rocky Can[y]on, Arizona" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 19; defined as "Rock Canyon, Graham County, Arizona" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 301.

Types: Neotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 19; this is the same specimen as the lectotype of *Argynnis nausicaa* W. H. Edwards, 1874, making *arizonensis* a junior objective synonym of *A. nausicaa*.

642. ***Speyeria hydaspe*** (Boisduval, 1869)

- a. ***Speyeria hydaspe viridicornis*** (J. A. Comstock, 1925)
Bull. South. Calif. Acad. Sci. 24(3): 63-64; figured by J. A. Comstock (1927), *Butterflies Calif.*: pl. 25, figs. 6 ♂ V (holotype).

Original Combination: *Argynnis*
hydaspe form *viridicornis*

Type Locality: "Greenhorn Mountains, Calif." [Kern County]

Types: Holotype in LACM.

- b. ***Speyeria hydaspe hydaspe*** (Boisduval, 1869)
Annls. Soc. Entomol. Belg. 12: 60, no. 55; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 263, fig. 2200 ♂ D&V (lectotype), 2201 ♂ D&V, 2202 ♀ D&V.

Original Combination: *Argynnis Hydaspe*

Type Locality: "sud de la Californie; suggested to be "Yosemite Valley, Mariposa County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 21; defined as "Gold Lake, Sierra County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 34.

Types: Lectotype in USNM, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 21; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 76, figs. 258 ♂ D, 259 ♂ V, and Dunford (2009), *Insecta Mundi* 90: fig. 47 ♂ D&V.



- = *purpurascens* (Hy. Edwards, 1877)
Proc. Calif. Acad. Sci. [1]7(13): 170-171.
Original Combination: *Argynnis monticola* Var. *purpurascens*
Type Locality: "Siskiyou County, in the region surrounding Mt. Shasta, as well as in some parts of Oregon...at the Dalles, Oregon...at Soda Springs, Siskiyou County"; defined as "Soda Springs, Siskiyou County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 21.
Types: Lectotype (#4238) in AMNH, designated by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 78, as "type"; a paralectotype figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 55, fig. 7 ♂ D.
- = ‡"*caliginosa*" (J. A. Comstock, 1925)
Bull. South. Calif. Acad. Sci. 24(3): 66; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 26, fig. 3 ♂ D (holotype).
Original Combination: *Argynnis hydaspe* ab. *caliginosa*
Type Locality: "Modoc Co., Calif." [California]
Types: "Holotype" in AMNH.
- c. **Speyeria hydaspe tehama** J. Emmel, T. Emmel & Mattoon, 1998
Syst. W. N. Am. Butterflies (12): 146, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ V, 28 ♀ V.
Original Combination: *Speyeria hydaspe tehama*
Type Locality: "California: Tehama County; Covelo Road, at Government Flat, 5900' elevation"
Types: Holotype in LACM.
- d. **Speyeria hydaspe davis** J. Emmel, T. Emmel & Mattoon, 1998
Syst. W. N. Am. Butterflies (12): 147, figs. 29 ♂ D, 30 ♂ V (holotype); 31 ♀ D, 32 ♀ V.
Original Combination: *Speyeria hydaspe davis*
Type Locality: "California: Humboldt County; McClellan Mountain peat bog"
Types: Holotype in LACM.
- e. **Speyeria hydaspe rhodope** (W. H. Edwards, 1874)
Trans. Am. Entomol. Soc. 5(1): 13-14; figured by W. H. Edwards (1875), Butterflies N. Am. 2(2): pl. Argynnis 6, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Argynnis Rhodope*
Type Locality: "British Columbia"; defined as "the Fraser's River country, British Columbia...in the forest on the way from Bates' (commonly called the 100-mile house) to Beaver Lake" by W. H. Edwards (1875), Butterflies N. Am. 2(2): [141-142]; suggested to be "Cariboo District, British Columbia" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 21. F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 315 tried to further defined this by adding "the forested, broad river-bottoms of the Fraser River system", which is an error as demonstrated by Kondla (2001), Tax. Rep. Int. Lepid. Surv. 3(1): 3. [British Columbia]
Types: Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 21; figured by

F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 314, fig. 27 ♂ D&V.

= *sakuntala* (Skinner, 1911)
Entomol. News 22(3): 108.

Original Combination: *Argynnis sakuntala*

Type Locality: "Kaslo, B. C." [British Columbia]

Types: Lectotype (#7035) in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 22; a paralectotype figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 56, fig. 4 ♀ V. Kondla (2001), Tax. Rep. Int. Lepid. Surv. 3(1): 3, determined this synonymy.

= *conquista* dos Passos & Grey, 1945
Am. Mus. Novit. (1297): 8, figs. 21 ♂ D, 22 ♂ V (holotype).

Original Combination: *Speyeria hydaspe conquista*

Type Locality: "Little Tesuque Canyon, near Santa Fe, New Mexico, 8000 feet", almost certainly in error [Santa Fe County]

Types: Holotype in AMNH.

As noted by Ferris (1981), *in*: Ferris and F. Brown (1981), Butterflies Rocky Mtn. States: 311-312, *S. hydaspe* has not been recorded from New Mexico since the description of this taxon; the types are therefore assumed to be mislabeled specimens of *S. h. rhodope*.

= ‡*skinneri* (W. Holland, 1931)
Butterfly Book (rev. ed.): 95, pl. 56, fig. 4 ♀ V.

Original Combination: *A[rgynnis]. skinneri*

Proposed to replace *Argynnis sakuntala* Skinner, 1911, erroneously though to be preoccupied; a junior objective synonym of *sakuntala*.

f. ***Speyeria hydaspe minor*** dos Passos & Grey, 1947
Am. Mus. Novit. (1370): 21.

Original Combination: *S[peyeria].*

(*S[peyeria].*) *hydaspe minor*

dos Passos and Grey adopted *Argynnis hydaspe rhodope* form alt. *minor* McDunnough, 1927, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= ‡"minor" (McDunnough, 1927)
Can. Entomol. 59(7): 155.

Original Combination: [*Argynnis hydaspe*] *rhodope* form alt. *minor*

Type Locality: "Mt. McLean, B. C., (5000 feet)" [near Lillooet, British Columbia]

Types: "Holotype" (#2427) in CNC.

= ‡"gregsoni" (Gunder, 1932)
Can. Entomol. 64(12): 281.

Original Combination: *Argynnis rhodope* tr. f. *gregsoni*

Type Locality: "Mount Washington (6000 ft.), Forbidden Plateau, V. I., B. C., Can." [Vancouver Island, British Columbia]

Types: "Holotype" in AMNH.

643. ***Speyeria mormonia*** Boisduval, 1869

a. ***Speyeria mormonia bischoffii*** (W. H. Edwards, 1870)



Trans. Am. Entomol. Soc. 3(2): 189-190, no. 2; figured by W. H. Edwards (1875), Butterflies N. Am. 2(4): pl. Argynnis 3, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Argynnis Bischoffii*

Type Locality: "Aliaska [sic!], opposite Kodiak"; defined as "Kodiak" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 22, and (1965), Trans. Am. Entomol. Soc. 91(3): 357; suggested to be "vic. Sitka, Baronoff I., Alaska" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 316-319; subsequently thought to be "Anchorage" by Grey (1989), J. Lepid. Soc. 43(1): 6-7, based on recent samples. Neotype is from "Kodiak."

Types: Neotype in CMNH, designated by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 320-321, fig. 28 ♂ D&V; the same specimen was incorrectly designated lectotype by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 22; figured by Howe (1975), Butterflies N. Am.: pl. 42, fig. 16 ♀ D&V.

- b. **Speyeria mormonia opis** (W. H. Edwards, 1874)
Trans. Am. Entomol. Soc. 5(2): 105-106; figured by W. H. Edwards (1875), Butterflies N. Am. 2(4): pl. Argynnis 3, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.

Original Combination: *Argynnis Opis*

Type Locality: "Bald Mountain, Cariboo, British Columbia"

Types: Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 13 V; figured by W. Holland (1931), Butterfly Book (rev. ed.): 103, pl. 14, fig. 8 ♂ V, and F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 321, fig. 29a ♂.

= *jesmondensis* dos Passos & Grey, 1947
Am. Mus. Novit. (1370): 22.

Original Combination: *Speyeria mormonia jesmondensis*

dos Passos and Grey adopted *Argynnis bischoffi* [sic!] *opis* form *jesmondensis* McDunnough, 1940, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1). Grey (1989), J. Lepid. Soc. 43(1): 6, determined this synonymy.

= ‡"jesmondensis" (McDunnough, 1940)
Can. Entomol. 72(2): 25.

Original Combination: [*Argynnis bischoffi* [sic!] *opis*] form *jesmondensis*

Type Locality: "Jesmond, B. C...(3500 ft.)"
[British Columbia]

Types: "Holotype" (#4925) in CNC.

- c. **Speyeria mormonia washingtonia** (W. Barnes & McDunnough, 1913)

Contr. Nat. Hist. Lepid. N. Am. 2(3): 95, pl. 1, figs. 5 ♂ D (lectotype), 6 ♀ D, 7 ♂ V, 8 ♀ V.

Original

Combination: *A[rgynnis]. bischoffi* [sic!] *washingtonia*

Type Locality: "Mt. Ranier [sic!], Wash. (7000 ft.)"; lectotype from "Paradise Valley." [Mt. Rainier, Pierce County]

Types: Lectotype in USNM, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 22; a paralectotype figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 56, fig. 8 ♂ V.

- = ‡"ranierensis" (Gunder, 1932)
Can. Entomol. 64(12): 282.
Original Combination: *Argynnis eurynome*
washingtonia form *ranierensis*
Type Locality: "Paradise Valley, Mount Ranier
[sic!], Pierce Co., Washington" [Mt. Rainier]
Types: "Holotype" in AMNH.
This name spelled "rainierensis" by L. Miller and
F. Brown (1981), Mem. Lepid. Soc. (2): 145; an
unjustified emendation.
- d. **Speyeria mormonia erinna** (W. H. Edwards, 1883)
Can. Entomol. 15(2): 33-34.
Original Combination: *Argynnis Eurynome* Var. *Erinna*
Type Locality: "Spokane Falls, W. T....Colorado...Mt.
Hood, Oregon...Big Horn, Mont."; lectotype from
"Spokane Falls, Spokane County, Washington."
Types: Lectotype in CMNH, designated by dos Passos
and Grey (1947), Am. Mus. Novit. (1370): 23 D&V;
figured by W. Holland (1931), Butterfly Book (rev. ed.):
102, pl. 56, fig. 7 ♂ V, and F. Brown (1965), Trans. Am.
Entomol. Soc. 91(3): 323, fig. 30 ♂.
= ‡"cunninghami" (Owen, 1893)
Entomol. News 4(7): 246.
Original Combination: [*Argynnis erinna*]
aberrant form *cunninghami*
Type Locality: "Klamath County, Oregon"
Types: "Holotype" in USNM.
- e. **Speyeria mormonia kimimela** (Marrone, Spomer & J.
Scott, 2008)
Papilio (n.s.) 18: 31.
Original Combination: *Argynnis (Speyeria) mormonia*
kimimela
Type Locality: "Terry Peak, Lawrence Co. SD"
Types: Holotype in SDSU.
- f. **Speyeria mormonia eurynome** (W. H. Edwards, 1872)
Trans. Am. Entomol. Soc. 4(1/2): 61, 66-67, no. 6;
figured by W. H. Edwards (1875), Butterflies N. Am. 2(4):
pl. Argynnis 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Argynnis Eurynome*
Type Locality: "throughout Colorado"; defined as
"Fairplay, South Park, Middle Park and California Gulch"
by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 159;
subsequently defined as "Fair Play [sic!], Park County,
Colorado" by dos Passos and Grey (1947), Am. Mus.
Novit. (1370): 24.
Types: Lectotype in CMNH, designated by dos Passos
and Grey (1947), Am. Mus. Novit. (1370): 24; figured by
F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 328,
fig. 32 ♂ D&V.
= *clio* (W. H. Edwards, 1874)
Trans. Am. Entomol. Soc. 5(2): 106-107.
Original Combination: *Argynnis Clio*
Type Locality: "plains at the Teton
Mountains...Rocky Mountains"; neotype from "Moose
P. O. Jackson Hole Wyo....Alt 6700" [Teton County,
Wyoming]
Types: Neotype in AMNH, designated by dos
Passos and Grey (1947), Am. Mus. Novit. (1370):

23; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 331, fig. 33 ♂ D&V.

= ‡"eris" (Igel, 1922)

Entomol. Z. 36(5): 20.

Original

Combination: *Arg[ynnis] eurynome* ab. *eris*

Type Locality: "der Umgebung von Calgary (Alberta)...aus Montana"

Types: "Holotype" in Igel collection.

= ‡"benjamini" (Gunder, 1927)

Can. Entomol. 59(12): 287, no. 22, pl. B, figs. 22

♂ D, 22a ♂ V (holotype).

Original Combination: *Argynnis mormonia* tr. f. *benjamini*

Type Locality: "Arangie, Idaho" [Arangee precinct, or Arange Peak, Fremont County]

Types: "Holotype" in USNM.

= ‡"brucei" (Gunder, 1927)

Can. Entomol. 59(12): 287, no. 23, pl. B, figs. 23

♀ D, 23a ♀ V ("holotype").

Original Combination: *Argynnis eurynome* tr. f. *brucei*

Type Locality: "Colorado"; defined in error as "Denver, Denver County, Colorado" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23. The correct type locality would be in the mountains west of Denver (A. Warren pers. comm. 2006).

Types: "Holotype" in FMNH.

= ‡"gunderi" (W. D. Field, 1936)

J. Entomol. & Zool. 28(2): 23.

Original Combination: *Argynnis eurynome* race *clio* tr. f. *gunderi*

Type Locality: "Broadwater Co., Montana"

Types: "Holotype" in USNM.

= ‡"igeli" dos Passos & Grey, 1947

Am. Mus. Novit. (1370): 23-24.

Original Combination: *Speyeria mormonia eurynome* ab. *igeli*

Proposed to replace *Argynnis*

eurynome ab. *eris* Igel, 1922, Entomol. Z. 36(5): 20, but that is an infrasubspecific name, not subject to homonymy (Code Article 1.3.4).

= ‡"fieldi" dos Passos & Grey, 1947

Am. Mus. Novit. (1370): 23-24.

Original Combination: *Speyeria mormonia eurynome* ab. *fieldi*

Proposed to replace *Argynnis*

eurynome race *clio* tr. f. *gunderi* W. D. Field, 1936, J. Entomol. & Zool. 28(2): 23, but that is an infrasubspecific name, not subject to homonymy (Code Article 1.3.4).

g. Speyeria mormonia mormonia (Boisduval, 1869)

Annls. Entomol. Soc. Belg. 12: 58-59, no. 51; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 261, figs. 2192 ♂ D&V (lectotype), 2193 ♀ D&V.

Original Combination: *Argynnis mormonia*



Type Locality: “sur les frontières de l'Oregon”; defined in error as “Salt Lake City, Salt Lake County, Utah”, in error, by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 22; suggested to be “vic. Pyramid L. Nevada” by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 145; subsequently defined as “Little Valley, W. of Washoe Lake, Washoe County, Nevada” by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 33; lectotype labeled “Lac Sal.”

Types: Lectotype in USNM, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 22; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 71, fig. 5 ♂ V, J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 33, figs. 249 ♂ D, 250 ♂ V, and Dunford (2009), Insecta Mundi 90: fig. 48 ♂ D&V.

= *†astarte* (W. H. Edwards, 1862)
Proc. Entomol. Soc. Philad. 1(7): 221-222, no. 1.

Original Combination: *Argynnis Astarte*

Type Locality: “Oregon; California”; defined as “Monache Meadows, Tulare County, California” by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23.

Types: “Neotype” in FMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23; this is the lectotype of *Argynnis arge* (below).

Preoccupied by *Argynnis astarte* E. Doubleday, 1848, in: Gen. diurn. Lepid. (1)(21): 181.

= *†montivaga* (Behr, 1864)
In: W. H. Edwards, Proc. Entomol. Soc. Philad. 3(3): 435, nos. 4 and 5.

Original Combination: *Argynnis Montivaga*

Type Locality: “always found in mountainous regions”; defined as “Monache Meadows, Tulare County, California” by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23.

Types: “Neotype” in FMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23; this is the lectotype of *Argynnis arge* (below), making this name a junior objective synonym.

Preoccupied by *Argynnis montivaga* Behr, 1863, Proc. Calif. Acad. Sci. [1]3(6): 84, no. 2.

= *arge* (Strecker, 1878)
Butterflies & Moths N. Am., Comp. Syn. Cat.: 114, no. 210.

Original Combination: [*Argynnis*] *Arge*

Type Locality: “California”; defined as “Monache Meadows, Tulare County, California” by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23.

Types: Lectotype in FMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23.

J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 33, determined this synonymy.

h. *Speyeria mormonia obsidiana* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butterflies (12): 145-146, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V.

Original Combination: *Speyeria mormonia obsidiana*

Type Locality: "California: Mono County; Sawmill Meadow, 9200' elevation, Glass Mountain"

Types: Holotype in LACM.

- i. ***Speyeria mormonia artonis*** W. H. Edwards, 1881
Trans. Am. Entomol. Soc. 9(1): 1-2.

Original Combination: *Argynnis Artonis*

Type Locality: "Colorado...Big Horn, Montana...Wells, Elko Co., Nevada"; defined as "Wells, Elko County, Nevada" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23.

Types: Lectotype in CMNH, designated by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 327, fig. 31 ♂
D&V. dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23, designated a lectotype (#4258) in CMNH, but this was rescinded by dos Passos and Grey (1965), Trans. Am. Entomol. Soc. 91(3): 358; Brown's (1965) lectotype designation stands (Code Article 74.1.1).

= ‡"rubyensis" (Gunder, 1932)
Can. Entomol. 64(12): 282-283.

Original Combination: *Argynnis eurynome artonis* form *rubyensis*

Type Locality: "Franklin Slough, near Wright's Ranch, Ruby Valley, Elko Co., Nevada"

Types: "Holotype" in AMNH.

- j. ***Speyeria mormonia luski*** (W. Barnes & McDunnough, 1913)

Contr. Nat. Hist. Lepid. N. Am. 2(3): 95-96, pl. 1, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V, 4 ♀ V.

Original Combination: *A[rgynnis]. eurynome luski*

Type Locality: "White Mts., Arizona"

Types: Lectotype in USNM, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 24; a paralectotype figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 56, fig. 6 ♂ V (as *irene*).

Opler (1999), Field Guide W. Butterflies: 282, suggested that this may be a species-level taxon.

Subfamily Limenitidinae Behr, 1864

Proc. Calif. Acad. Sci. [1]3(8): 127 (as "Limenitidae"). Type-genus: *Limenitis* [Fabricius], 1807, in: Illiger, Mag. f. Insektenk. 6: 281, no. 10. I.C.Z.N. *Opinion* 278 placed *Limenitis* on the *Official List of Generic Names in Zoology* as name no. 701.

Tribe Limenitidini Behr, 1864

Subtribe Limenitidina Behr, 1864

Genus Limenitis [Fabricius], 1807

In: Illiger, Mag. f. Insektenk. 6: 281, no. 10. Type-species: *Papilio populi* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 476, no. 111, by designation of Dalman (1816), K. svenska VetenskAkad. Handl. 37(1): 55. I.C.Z.N. *Opinion* 278 placed this name on the *Official List of Generic Names in Zoology* as name no. 701. R. Chermock (1950), Am. Midl. Nat. 43(3): 513-569, united many genus-level taxa under *Limenitis*, some of which have since been elevated. The use of *Basilarchia* for Nearctic species is not warranted until a thorough analysis of all related taxa has been conducted.

= ‡*Najas* Hübner, [1806]
Tentamen: [1]. Type-species: *Papilio populi* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 476, no. 111, by monotypy.
I.C.Z.N. *Opinion* 97 suppressed this publication.

- I.C.Z.N. *Opinion* 278 placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 80.
- = ‡*Callianira* Hübner, [1819]
 Verz. bekannt. Schmett. (3): 38. Type-species: *Callianira ephestiaena* Hübner, [1819], Verz. bekannt. Schmett. (3): 38, no. 334 (= *Papilio ephestion* Stoll, 1790, Aanhangs. Werk Utitl. Kapellen Pieter Cramer (2): 121, pl. 25, figs. 1 ♂ D, 1a ♂ V; (3): 383 (index); a synonym of *Papilio astyanax*, Fabricius, 1775, Syst. Entomol.: 447, no. 20, which is a subspecies of *Papilio arthemis* Drury, 1773, Ill. Nat. Hist. 2: 17, index, pl. 10, figs. 3, 4), by monotypy. Preoccupied by *Callianira* Péon & Lesueur, 1810, Ann. Mus. Hist. Nat., Paris 15(85): 65.
 - = ‡*Nymphalis* Boisduval, [1828]
 Europ. Lepid. Ind. Meth.: 14. Type-species: *Papilio populi* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 476, no. 111, by monotypy. Preoccupied by *Nymphalis* Kluk, 1780, Zwierr. Hist. Nat. Pocz. Gospod. 4: 86.
 - = ‡*Nympha* Krause, 1839
 In: Thon, Faun. Thüringen 4(4/5): 86. Type-species: *Papilio populi* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 476, no. 111, by designation of Scudder (1872), Proc. Am. Acad. Arts Sci., Boston 10(2): 293, no. 755 bis. Preoccupied by *Nympha* Fitzinger, 1826, Nouv. Class. Rept. 29, and a junior objective synonym of *Limenitis*.
 - = ‡*Nymphalis* C. Felder, 1861
 Nova Acta Acad. Caes. Leop.-Carol. germ. Nat. Cur. 28(3): 41, no. 97. Type-species: *Papilio astyanax* Fabricius, 1775, Syst. Entomol.: 447, no. 20 (= *Papilio arthemis* Drury, 1773, Ill. Nat. Hist. 2: 17, index, pl. 10, figs. 3, 4; subspecies), by designation of Hemming (1934), Entomol. 67(849): 37. Preoccupied by *Nymphalis* Kluk, 1780, Zwierr. Hist. Nat. Pocz. Gospod. 4: 86, and also a junior objective synonym of *Basilarchia* Scudder, 1872.
 - = *Basilarchia* Scudder, 1872
 4th Ann. Rept. Peabody Acad. Sci. (1871): 29. Type-species: *Papilio astyanax* Fabricius, 1775, Syst. Entomol.: 447, no. 20 (= *Papilio arthemis* Drury, 1773, Ill. Nat. Hist. 2: 17, index, pl. 10, figs. 3, 4; subspecies), by original designation.
 - = *Ladoga* Moore, 1898
 Lepid. Ind. 3(32): 146; (33): 174. Type-species: *Papilio camilla* Linnaeus, 1764, Mus. Lud. Ulr.: 304, no. 122, by original designation.
 - = *Azuritis* Boudinot, 1986
 Nouv. Rev. Entomol. (n.s.) 2(4): 405. Type-species: *Limenitis reducta* Staudinger, 1901, Cat. Lepid. Palae. (3rd ed.): 22, no. 135a, by original designation. Gorbunov (2001), Butterflies Russia Class.: 159, treated this taxon as a subgenus.
644. ***Limenitis arthemis*** (Drury, 1773)
- a. ***Limenitis arthemis rubrofasciata*** (W. Barnes & McDunnough, 1916)
 Can. Entomol. 98(7): 221-222.
Original Combination: *Basilarchia arthemis rubrofasciata*
Type Locality: "Saskatchewan...Cartwright, Man....Calgary, Alta."

Types: Syntypes in USNM; a “paratype” figured by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): pl. 9, fig. 7 ♂ D.

b. *Limenitis arthemis arthemis* (Drury, 1773)

Ill. Nat. Hist. 2: 17, index, pl. 10, figs. 3 ♂ D, 4 ♂ V.

Original

Combination: *Pap[ilio]. Nym[phalis]. Phal[eratus]. Arthemis*

Type Locality: “New York”; stated to be “New York, probably Catskill Mountains” by Klots (1951), Field Guide Butterflies N. Am.: 116.

Types: Type(s) probably lost.

= *lamina* (Fabricius, 1793)

Entomol. Syst. 3(1): 118, no. 361; cited Jones’
Icones 5: pl. 32, fig. 1.

Original

Combination: *P[apilio]. N[ymphales]. Lamina*

Type Locality: “Indiis”

Types: Type(s) probably lost.

= *proserpina* W. H. Edwards, 1865

Proc. Entomol. Soc. Philad. 5(1): 148; figured by W. H. Edwards (1867), Trans. Am. Entomol. Soc. 1(3): pl. 5, (1869), Butterflies N. Am. [1](4): pl. *Limenitis* 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V, and (1879), 2(8): pl. *Limenitis* 1, figs. 5 ♂ D, 6 ♂ D.

Original Combination: *Limenitis Proserpina*

Type Locality: “Catskill Mountains”; defined as “Hunter, Greene Co., New York” by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 358.

Types: Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 360, fig. 12 ♂ D&V.

= ‡“*rufescens*” Cockerell, 1889

Entomol. 22(308): 4; cited unspecified Maynard reference, probably (1886), Butterflies N. England (ed. 1): pl. 1, fig. 11 ♂ D&V.

Original

Combination: *L[imenitis]. arthemis* [form]. *rufescens*

Type Locality: “Southern States”

Types: “Holotype” probably in MCZ, if it existed.

= ‡“*cerulea*” Ehrmann, 1900

Can. Entomol. 32(11): 348.

Original Combination: *Limenitis ursula*,

Var. *cerulea* ♀, nov. var.

Type Locality: “Charleroi, Penn’a” [Washington County, Pennsylvania]

Types: “Syntypes” in CMNH.

= ‡“*albofasciata*” Newcomb, 1907

Psyche 14(5): 90-91, pl. 2, figs. 7 ♂ D, 8 ♀ D.

Original Combination: *Limenitis*

ursula var. *albofasciata*

Type Locality: “Mass., eastern N. Y., and vicinity of Jersey City”; lectotype from “Fort Lee, Hudson Co., N. Y.” [New York]

Types: “Syntypes” in AMNH.

= ‡“*benjamini*” Nakahara, 1924

Bull. Brooklyn Entomol. Soc. 19(5): 171.

- Original Combination:** [*Basilarchia arthemis albofasciata*] Aberr. *benjamini*
Type Locality: "Massachusetts"
Types: "Holotype" in USNM.
- = ‡"virithemis" W. D. Field, 1936
 J. Entomol. & Zool. 28(2): 24.
Original Combination: *Basilarchia*
Arthemis f. *virithemis*
Type Locality: "Germania, Penn." [Potter
 County, Pennsylvania]
Types: "Holotype" in USNM.
- c. ***Limenitis arthemis astyanax*** (Fabricius, 1775)
 Syst. Entomol.: 447, no. 20.
Original
Combination: *P[apilio]. E[ques]. T[rojanus]. Astyanax*
Type Locality: "America"
Types: Syntypes in HMUG.
- = *ephestion* (Stoll, 1790)
 Aanhangs. Werk Uitl. Kapellen Pieter Cramer (2):
 121, pl. 25, figs. 1 ♂ D, 1a ♂ V; (3): 383 (index).
Original
Combination: *Pap[ilio]. Eq[uites]. Troës Ephestion*
Type Locality: "goudkust van Afrika" "côte d'or
 d'Afrique" in error.
Types: Type(s) probably lost.
- = ‡*ephestiaena* (Hübner, [1819])
 Verz. bekannt. Schmett. (3): 38, no. 334;
 cited *Papilio ephestion* Stoll 1790, Aanhangs.
 Werkes Uitl. Kapellen Pieter Cramer (2): pl. 25,
 figs. 1, 1a; (3): 383 (index).
Original Combination: *Callianira Ephestiaena*
 Proposed to replace *Papilio ephestion* Stoll,
 1790, erroneously thought preoccupied; a junior
 objective synonym of *Papilio ephestion*.
- = *ursula* (Fabricius, 1793)
 Entomol. Syst. 3(1): 82, no. 257.
Original Combination: *P[apilio]. N[ymphalis] Ursula*
Type Locality: "America"
Types: Location of type(s) not known.
- = ‡"viridis" Strecker, 1878
 Butterflies & Moths N. Am., Comp. Syn. Cat.:
 144, no. 289a.
Original Combination: [*Limenitis Ephestion*]
 var. a *Viridis*
Type Locality: Not stated.
Types: Location of "type(s)" not known, may be
 in FMNH.
- = ‡"atlantis" (Nakahara, 1923)
 Entomol. News 34(1): 10.
Original Combination: *Basilarchia*
astyanax ab. *atlantis*
Type Locality: "Elmhurst, Long Island" [Queens
 County, New York]
Types: "Holotype" in USNM.
- = ‡"inornata" (Nakahara, 1924)
 Bull. Brooklyn Entomol. Soc. 19(5): 174.
Original Combination: [*Basilarchia arthemis*
astyanax] form *inornata*

- Type Locality:** "Glendale, L. I., N. Y." [Queens County, New York]
Types: "Holotype" in USNM.
 = ♀ "purpuratus" (Gunder, 1934)
 Can. Entomol. 66(2): 43-44, no. 9.
Original Combination: *Basilarchia astyanax* form *purpuratus*
Type Locality: "Scranton, Penna." [Lackawanna County, Pennsylvania]
Types: "Holotype" in AMNH.
 = ♀ "tildeni" (W. D. Field, 1934)
 Can. Entomol. 66(11): 255-256.
Original Combination: *Basilarchia astyanax* tr. f. *tildeni*
Type Locality: "a small wooded area about two miles from Lawrence, Kansas, up the Kaw river" [Douglas County]
Types: "Holotype" in USNM.
- d. **Limenitis arthemis arizonensis** W. H. Edwards, 1882
 Papilio 2(2): 22.
Original Combination: *Limenitis Ursula* var. *arizonensis*
Type Locality: "about Tucson...southern Arizona" [Pima County]
Types: Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 361-362, fig. 13 ♂ D&V.
 = ♀ "doudoroffi" (Gunder, 1934)
 Can. Entomol. 66(2): 44, no. 12.
Original Combination: *Basilarchia astyanax arizonensis* tr. f. *doudoroffi*
Type Locality: "Tonto Creek near Payson, Gila County, Arizona"
Types: "Holotype" in AMNH.
 E. Perkins and Garth (1973), J. Res. Lepid. 11(4): 229-234, demonstrated that this taxon is a hybrid between *L. a. arizonensis* and *L. weidemeyerii angustifascia* (see below); this was corroborated by R. Holland (1981), J. Res. Lepid. 19(2): 92-94, fig. 4 ♂ D&V.
645. **Limenitis weidemeyerii** W. H. Edwards, 1861
 While some recent authors have treated *L. weidemeyerii* as a subspecies of *L. lorquini* (e.g., Porter (1990), Syst. Zool. 39(2): 131-148), they are maintained as species-level taxa following Boyd *et al.* (2000), Holarct. Lepid. 6(2): 37-74.
- a. **Limenitis weidemeyerii weidemeyerii** W. H. Edwards, 1861
 Proc. Acad. Nat. Sci. Philad. 13(6): 160, 162, no. 4; figured by W. H. Edwards (1869), Butterflies N. Am. [1](4): pl. *Limenitis* 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V, and Mead (1875), Rep. Coll. diurn. Lepid. 5(Zool.): pl. 38, figs. 1 ♂ D, 2 ♂ V.
Original Combination: *Limenitis Weidemeyerii*
Type Locality: "Rocky Mountains"; neotype from "Lakewood, Jefferson Co., Colorado."
Types: Neotype in CMNH, designated by S. Perkins and E. Perkins (1967), in: F. Brown, Trans. Am. Entomol. Soc. 93(3): 370-371, fig. 16 ♂ D&V.

- = ‡"nigerrima" (Cockerell, 1927)
Bull. South. Calif. Acad. Sci. 26(1): 5; figured by Cockerell (1927), Zool. Colo.: plate facing 209.
Original Combination: [*Basilarchia weidemeyerii*] ab. *nigerrima*
Type Locality: "Boulder, Colorado" [Boulder County]
Types: "Holotype" in USNM; figured by S. Perkins and E. Perkins (1967), J. Lepid. Soc. 21(4): 226, pl. 7, figs. 32, 33.
- b. *Limenitis weidemeyerii oberfoelli*** F. Brown, 1960
Am. Mus. Novit. (2018): 2-6, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Limenitis weidemeyerii oberfoelli*
Type Locality: "Badlands, Slope County, North Dakota"
Types: Holotype in AMNH.
- c. *Limenitis weidemeyerii latifascia*** S. Perkins & E. Perkins, 1967
J. Lepid. Soc. 21(4): 221, pl. 1, fig. 17 ♂ D (holotype); pl. 2, fig. 18 ♂ V (holotype), pl. 3, fig. 19 ♀ D, pl. 4, fig. 20 ♀ V.
Original Combination: *Limenitis weidemeyerii latifascia*
Type Locality: "Idaho: 10 mi S. Pocatello, Mink Creek, Bannock Range, Bannock Co."
Types: Holotype in AMNH.
- d. *Limenitis weidemeyerii nevadae*** (W. Barnes & Benjamin, 1924)
Contr. Nat. Hist. Lepid. N. Am. 5(3): 99.
Original Combination: *Basilarchia weidemeyerii nevadae*
Type Locality: "Clark Co., Nev."; determined to be "Spring Mtn. Range, Clark Co., Nevada" by S. Perkins and E. Perkins (1967), J. Lepid. Soc. 21(4): 220-221.
Types: Holotype in USNM; figured by S. Perkins and E. Perkins (1967), J. Lepid. Soc. 21(4): 226, pl. 7, figs. 38-39.
- e. *Limenitis weidemeyerii angustifascia*** (W. Barnes & McDunnough, 1912)
Can. Entomol. 44(5): 163.
Original Combination: *Basilarchia weidemeyerii* [race] *angustifascia*
Type Locality: "White Mts., Arizona"; determined to be "White Mtns., SE McNary, Apache Co., Arizona" by S. Perkins and E. Perkins (1967), J. Lepid. Soc. 21(4): 220.
Types: Holotype in USNM; figured by S. Perkins and E. Perkins (1967), J. Lepid. Soc. 21(4): 226, pl. 7, figs. 36 ♂ D, 37 ♂ V.
= ‡"sinefascia" W. H. Edwards, 1882 (emended)
Papilio 2(2): 22.
Original Combination: *Limenitis weidemeyerii* aber. *sine-fascia*
Type Locality: "near Tucson"; defined as "near Prescott, Arizona" by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 371-372. [Yavapai County]
Types: "Holotype" in CMNH, figured by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 372, fig. 17 ♀ D&V; and S. Perkins and E.

- Perkins (1967), J. Lepid. Soc. 21(4): 226, pl. 7, figs. 34 ♀ D, 35 ♀ V.
- f. **Limnitis weidemeyerii siennafascia** Austin & Mullins, 1984
 J. Res. Lepid. 22(4): 225, 227, fig. 1a top left ♂ D (holotype), top right ♀ D, 1b top left ♂ V (holotype), top right ♀ V.
Original Combination: *Limnitis weidemeyerii siennafascia*
Type Locality: "Arizona: Cochise County; Chiracahua Mountains, near Barfoot Park, 8400', (T17S R30E S33)"
Types: Holotype in MGCL.
646. **Limnitis lorquini** Boisduval, 1852
- a. **Limnitis lorquini powelli** Austin & J. Emmel, 1998
 Syst. W. N. Am. Butterflies (42): 513.
Original Combination: *Limnitis lorquini powelli*
 Austin and Emmel adopted *Basilarchia lorquini* tr. f. *powelli* W. D. Field, 1936, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).
 = ‡"powelli" W. D. Field, 1936
 J. Entomol. & Zool. 28(2): 24.
Original Combination: *Basilarchia lorquini* tr. f. *powelli*
Type Locality: "San Bernardino Co., Calif." [California]
Types: "Holotype" in USNM.
- b. **Limnitis lorquini pallidafacies** Austin & J. Emmel, 1998
 Syst. W. N. Am. Butterflies (42): 514, figs. 59 ♂ D, 60 ♂ V (holotype); 61 ♀ D, 62 ♀ V.
Original Combination: *Limnitis lorquini pallidafacies*
Type Locality: "Nevada: Esmeralda County; White Mountains, Trail Canyon, 2620 m, T1S R33E S10 on the USGS Benton, Nev.-Calif. 15' quadrangle"
Types: Holotype in LACM.
 = ‡"comstocki" (Gunder, 1925)
 Entomol. News 36(1): 5, no. 8, pl. 1, fig. S ♂ D ("holotype").
Original Combination: *Basilarchia lorquini* ab. ♂ *comstocki*
Type Locality: "Bishop, Inyo County, California"
Types: "Holotype" in LACM; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 45, fig. 7 ♂ D; pl. 46, fig. 6 ♂ V.
- c. **Limnitis lorquini lorquini** Boisduval, 1852
 Annls. Soc. Entomol. Fr. (2)10(2): 301-302, no. 42.
Original Combination: *Limnitis Lorquini*
Type Locality: "Californie" implied from the title of the paper; restricted to "Hwy. 70 at Soda Creek, E. Branch North Fork Feather River Canyon, 2500' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 16.
Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 16, figs. 87 ♂ D, 88 ♂ V.
 = *eavesii* Hy. Edwards, 1877
 Proc. Calif. Acad. Sci. [1]7(13): 172.

Original Combination: *Limenitis*

Lorquini Var. *Eavesii*

Type Locality: "from Vancouver Island...near Virginia City, Nevada"; lectotype from "Virginia City, Storey County, Nevada."

Types: Lectotype in AMNH, designated by Austin (1998), Syst. W. N. Am. Butterflies (50): 636.

= ‡"gunderi" W. D. Field, 1936
J. Entomol. & Zool. 28(2): 24.

Original Combination: *Basilarchia lorquini* tr.
f. *gunderi*

Type Locality: "El Dorado Co., Calif."
[California]

Types: "Holotype" in USNM.

= ‡"fridayi" Gunder, 1932
Can. Entomol. 64(12): 284.

Original Combination: *Basilarchia*
lorquini form *fridayi*

Type Locality: "Leevining Creek, near Mono Lake, Mono County, Calif." [California]

Types: Holotype in AMNH.

Gunder (1934), Can. Entomol. 66(2): 45,
determined that this is a hybrid between *L. weidemeyerii* and *L. lorquini*; also see Boyd *et al.* (2000), Holarct. Lepid. 6(2): 37-74.

d. ***Limenitis lorquini ilgae*** C. Guppy, 2001

Butterflies B. C.: 317, 319, figs. ♂ D&V (holotype), ♀ D&V.

Original Combination: *Limenitis lorquini ilgae*

Type Locality: "BC, Bamberton, Jones Creek Road to Oliphant Lake" [British Columbia]

Types: Holotype in BCPM.

= ‡"maynardi" (W. D. Field, 1936)
J. Entomol. & Zool. 28(2): 24-25.

Original Combination: *Basilarchia*
lorquini race *burrisoni* tr. f. *maynardi*

Type Locality: "Vancouver, B. C., Canada"
[British Columbia]

Types: "Holotype" in USNM.

e. ***Limenitis lorquini burrisonii*** Maynard, 1891

Manual N. Am. Butterflies: 102, no. 143a.

Original Combination: *Limenitis lorquini burrisonii*

Type Locality: "British Columbia...Landsdowne, westward to Vancouvers Island"; defined as "Landsdowne Creek near Fairmont Hot Springs" by Layberry *et al.* (1998), Butterflies Can.: 210-211.

Types: Location of type(s) not known, possibly in MCZ. Layberry *et al.* (1998), Butterflies Can.: 210-211, and C. Guppy and J. Shepard (2001), Butterflies B. C.: 317-319, considered the name *burrisonii* unavailable because they thought that it represents a hybrid between *L. lorquini* and *L. arthemis rubrofasciata*. If it is demonstrated that the type is a hybrid, the name *burrisonii* is still available (Code Articles 17.2 and 23.8).

= *itelkae* C. Guppy, 2001
Butterflies B. C.: 317, 319, figs. ♂ D&W (holotype), ♀ D&V.

- Original Combination:** *Limenitis lorquini itelkae*
Type Locality: "BC, Keremeos, 1 mile N of Hwy 3A on Mt. Apex Rd." [British Columbia]
Types: Holotype in BCPM.
647. ***Limenitis archippus*** (Cramer, 1775)
- a. ***Limenitis archippus floridensis*** Strecker, 1878
 Butterflies & Moths N. Am., Comp. Syn. Cat.: 143, no. 287a.
Original Combination: [*Limenitis Misippus*] var.
 a. *Floridensis*
Type Locality: "Florida and other parts of the extreme south" "Florida, Southern Ala., Miss., La."; defined as "Apalachicola, Florida" by Strecker (1881), Can. Entomol. 13(2): 29.
Types: Syntypes may be in FMNH.
 = *eros* W. H. Edwards, 1880
 Can. Entomol. 12(12): 246-247; figured by W. H. Edwards (1883), Butterflies N. Am. 2(11): pl. *Limenitis* 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Limenitis Eros*
Type Locality: "Indian River"; defined as to "vic. Georgiana, Merritt I. Indian River, Brevard Co., Florida" by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 362.
Types: Lectotype in CMNH, designated by F. M. Brown, 1967, Trans. amer. ent. Soc. 93(3): 364, fig. 14 ♂ D&V; figured by Holland, 1931, Butterfly Book (rev. ed.): pl. 73, fig. 1 ♂ D (as *floridensis*).
 = ‡"nig" Strecker, 1878
 Butterflies & Moths N. Am., Comp. Syn. Cat.: 143, no. 287b.
Original Combination: [*Limenitis Misippus*] ab.
 b. ♂ *Nig[ra]*.
Type Locality: "Florida"
Types: "Holotype" in FMNH.
 = ‡"nigricans" Strecker, 1900
 Lepid. Rhop. Het. (suppl. 3): 24; cited Strecker (1878), Butterflies & Moths N. Am., Comp. Syn. Cat.: 143.
Original Combination: *Limenitis archippus* ab. *nigricans*
Type Locality: "Florida"
Types: "Holotype" in FMNH.
 This amounts to a re-description of *Limenitis misippus* ab. *nigra* which was not cited by name
 = ‡"halli" (F. Watson & W. Comstock, 1920)
 Bull. Am. Mus. Nat. Hist. 42(10): 449.
Original Combination: *Basilarchia archippus* ab. *halli*
Type Locality: "Florida"
Types: "Holotype" in AMNH.
- b. ***Limenitis archippus watsoni*** (dos Passos, 1938)
 Can. Entomol. 70(12): 243, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.
Original Combination: *Basilarchia archippus watsoni*
Type Locality: "Alexandria, La." [Rapides Parish, Louisiana]
Types: Holotype in AMNH.



- c. **Limnitis archippus archippus** (Cramer, 1775)
 Uitl. Kapellen 1(1): pl. 16, figs. A ♂ D, B ♂ V; (2): 24; (8): 151 (index).
Original
Combination: *Pap[ilio]. Dan[aus] Festiv[us]. Archippus*
Types: "eiland Jamaica in Noord-Amerika" "Jamaïque dans l'Amerique Septentrionale"; suggested to be "New York" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 178.
- = *disippe* (Godart, [1824])
 Ency. méth. 9(Ins.)(2): 393, no. 152.
Original Combination: *Nymphalis Disippe*
Type Locality: "Guyane" in error.
Types: Syntypes may be in USNM or MNHP.
 This name was spelled "dissipus" by Boisduval and Le Conte [1837], Hist. Lepid. Amér. sept. (23): 204, representing either an incorrect subsequent spelling or an unjustified emendation.
- = ‡"pseudodorippus" Strecker, 1878
 Butterflies & Moths N. Am., Comp. Syn. Cat.: 143, no. 287c; cited Mead (1872), Can. Entomol. 4(11): 216.
Original Combination: [*Limnitis Misippus*] ab. c. ♀ *Pseudodorippus*
Type Locality: "Catskill Mts., New York...near Holyoke, Mass."
Types: "Holotype" in CMNH, figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 59, fig. 30 ♀ D.
- = ‡"rubidus" Strecker, 1878
 Butterflies & Moths N. Am., Comp. Syn. Cat.: 144, no. 289b; cited Mead (1872), Can. Entomol. 4(11): 217.
Original Combination: [*Limnitis Ephestion*] ab. b. *Rubidus*
Type Locality: Not stated; possible "holotype" from "Berks Co., Penn." [Pennsylvania]
Types: "Holotype" in FMNH.
 Gunder (1934), Can. Entomol. 66(2): 46, noted that although this taxon was described through indication, there is a "type" from "Berks Co., Penn.", in FMNH.
- = ‡"arthechippus" Scudder, 1888
 Butterflies E. U. S. & Can. 1(2): 296-297.
Original
Combination: *B[asilarchia] arthechippus* (*arthe mis-archippus*)
Type Locality: "Chateauguay Basin" [Quebec]
Types: "Holotype" (#29306) in MCZ.
- = ‡"lanthanis" (Cook & F. Watson, 1909)
 Can. Entomol. 41(3): 77, pl. 5, figs. 1 ♂ D, 2 ♀ D (holotype).
Original Combination: *Basilarchia archippus* new variety *lanthanis*
Type Locality: "Albany, N. Y." [Albany County, New York]
Types: "Holotype" in AMNH.

- The text clearly indicates that this taxon was described as an individual variant.
- = ‡"advena" Ellsworth, 1918
Lepidopterist 2(3): 22.
Original Combination: *Limenitis archippus* v. *advena*
Type Locality: "Johnson City, N. Y." [Broom County, New York]
Types: "Syntypes" in USNM.
The text clearly indicates that this taxon was described as an individual variant.
 - = ‡"cayuga" (Nakahara, 1923)
Entomol. News 34(1): 10.
Original Combination: *Basilarchia missipus* ab. *cayuga*
Type Locality: "Ithaca, New York" [Tompkins County]
Types: "Holotype" in USNM.
 - = ‡"nivosus" (Gunder, 1929)
Bull. Brooklyn Entomol. Soc. 24(5): 325, pl. 30, fig. 1 ♂ D&V ("holotype").
Original Combination: *Basilarchia archippus* tr. f. *nivosus*
Type Locality: "Mystic, Conn." [New London County, Connecticut]
Types: "Holotype" in AMNH.
 - = ‡"rubrofasechippus" Gunder, 1934
Can. Entomol. 66(2): 47-48, no. 22.
Original Combination: *Basilarchia archippus* hyb. *rubrofasechippus*
Type Locality: "Beulah, Manitoba, Canada"
Types: "Holotype" in AMNH.
 - = ‡"weidechippus" Cross, 1936
Hobbies 41(5): 112.
Original Combination: *Basilarchia* hyb. *weidechippus*
Type Locality: Not stated, but received from Schryver, so possibly "Platte River, near Denver" [Jefferson County]
Types: "Holotype" in DNHC; figured by Cross (1937), Proc. Colo. Mus. Nat. Hist. 16(1): 17 ♂ D&V.
- d. **Limenitis archippus idaho** Austin, 1998
Syst. W. N. Am. Butterflies (63): 754, figs. 5 top row left ♂ D, 6 top row left ♂ V (holotype), 5 top row right ♂ D, 6 top row right ♂ V, 5 bottom row left ♀ D, 6 bottom row left ♀ V, 5 bottom row right ♀ D, 6 bottom row right ♀ V.
Original Combination: *Limenitis archippus idaho*
Type Locality: "Nevada: Elko County; Little Salmon River (= Salmon Falls Creek) Valley, U.S. route 93, 3.1 miles south of Jackpot, 1650 m, T47N R64E S23"
Types: Holotype in MGCL.
- e. **Limenitis archippus lahontani** Herlan, 1971
J. Res. Lepid. 9(4): 217-218, fig. 2, top left ♂ D (holotype).
Original Combination: *Limenitis archippus lahontani*
Type Locality: "Nevada, Lyon Co., Fernley"
Types: Holotype in LACM.

- f. **Limenitis archippus obsoleta** W. H. Edwards, 1882
Papilio 2(2): 22.
Original Combination: *Limenitis Eros* var. *obsoleta*
Type Locality: "southern Arizona"; suggested to be "at or south of Tucson" by Austin (1998), Syst. W. N. Am. Butterflies (63): 752. [Pima County]
Types: Type(s) lost.
= *hulstii* W. H. Edwards, 1882
Papilio 2(3): 45, 46-47, no. 2.
Original Combination: *Limenitis Hulstii*
Type Locality: "Utah"; suggested to be "St. George region, in a very broad sense" by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 366. [Washington County]
Types: Holotype in CMNH, figured by W. Holland (1898), Butterfly Book: pl. 7, fig. 5 ♂ D, and F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 367, fig. 15 ♂ D&V.
- g. **Limenitis archippus hoffmanni** R. Chermock, 1947
Am. Mus. Novit. (1365): 1-2.
Original Combination: *Limenitis archippus hoffmanni*
Type Locality: "Misantla, Vera Cruz, Mexico" [Veracruz]
Types: Holotype in AMNH.
Recorded from Texas by Bordelon and Knudson (2000), News Lepid. Soc. 42(1): 7, pl. 1 fig. 3.

Genus **Adelpha** Hübner, [1819]

Verz. bekannt. Schmett. (3): 42. Type-species: *Papilio mesentina* Cramer, 1777, Uitl. Kapellen 2(14): 102, pl. 162, figs. B, C; (16): 149 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 102, no. 20.

- = *Heterochroa* Boisduval, 1836
Spec. gén. Lépid. 1: pl. 8 [=4B], fig. 4. Type-species: *Heterochroa serpa* Boisduval, 1836, Spec. gén. Lépid. 1: pl. 8 [=4B], fig. 4, by monotypy.

648. **Adelpha fessonia** (Hewitson, 1847)
a. **Adelpha fessonia fessonia** (Hewitson, 1847)
Ann. Mag. Nat. Hist. [1]20(133): 260-261, pl. 20, fig. 6 ♀ D.
Original Combination: *Heterochroa Fessonia*
Type Locality: "Honduras"
Types: Syntype (#Rh9817) in BMNH.
649. **Adelpha basiloides** (H. Bates, 1865)
J. Entomol. 2(12): 332, note.
Original Combination: *Heterochroa basiloïdes*
Type Locality: "Mexico"
Types: Syntype (#Rh9837) in BMNH.
= *lydia* (Butler, 1865)
Ann. Mag. Nat. Hist. (3)16(96): 398-399, no. 4.
Original Combination: *Heterochroa Lydia*
Type Locality: "Honduras"
Types: Syntype in BMNH.
= *lemnia* (C. Felder & R. Felder, 1867)
Reise Novara Zool. (3): 417, no. 647.
Original Combination: *Heterochroa Lemnia*
Type Locality: "Mexico"
Types: Syntype in BMNH; figured by Willmott (2003), Gen. Adelpha: 235, pl. 5, figs. 54a ♂ D, 54b ♂ V.

- = *lativittata* Staudinger, 1886
In: Staudinger & Schatz, Exot. Schmett. 1(13): 142.
Original Combination: [*Adelpha Basiloides*]
var. *Latevittata*
Type Locality: "Venezuela (Pto. Cabello)"
Types: Syntype in ZMHB.
- = *caelia* Fruhstorfer, 1915
In: Seitz, Grossschmett. Erde 5 (237): 524.
Original Combination: [*Adelpha basiloides*] *caelia*
Type Locality: "Colombien"
Types: Syntype (#15-108) in BMNH.
- 650. ***Adelpha eulalia*** (E. Doubleday, [1848])
In: Gen. diurn. Lepid. (2): pl. 36, fig. 1 ♀ D [1848]; 2(34): 278, no. 12, (Westwood, 1850).
Original Combination: *Limenitis Eulalia*
Type Locality: "Venezuela" in error; syntype from "Méxique."
Types: Syntype (1927-3) in BMNH; this specimen may have been designated lectotype by Carpenter and Hobby (1944), Trans. R. Entomol. Soc. Lond. 94(2): 316.
Prudic *et al.* (2008), Zootaxa 1819: 1–24, detail the distinction between *A. eulalia*, *A. californica* and *A. bredowii* Geyer, 1837, *in*: Hübner, Zutr. z. Samml. exot. Schmett. 5: pl. [142], figs. 825 ♂ D, 826 ♂ V; 10, no. 413. *Adelpha bredowii* does not occur in the United States.
- = *guatemalensis* (Carpenter & Hobby, 1944)
Trans. R. Entomol. Soc. Lond. 94(2): 318-319, no. 4, fig. 2 H ♂ genitalia, pl. 1, figs. 7 ♂ D (holotype), 8 ♂ D, 9 ♀ D, pl. 2, fig. 12 ♂ V.
Original Combination: *Limenitis bredowii guatemalensis*
Type Locality: "San Gerónimo, Guatemala"
Types: Holotype in BMNH.
Willmott (2003), Gen. Adelpha: 52, determined this synonymy.
- 651. ***Adelpha californica*** (Butler, 1865)
Proc. Zool. Soc. Lond. 1865(2): 485-486, no. 6.
Original Combination: *Heterochroa californica*
Type Locality: "California"
Types: Syntype (#Rh9766) in BMNH.

Subfamily **Apaturinae** Boisduval, 1840

Gen. Ind. Europ. Lepid.: 24 (as "Apaturides"). Type-genus: *Apatura* [Fabricius], 1807, *in*: Illiger, Mag. f. Insektenk. 6: 280. I.C.Z.N. *Opinion* 232 placed *Apatura* on the *Official List of Generic Names in Zoology* as name no. 657. I.C.Z.N. *Direction* 99 placed Apaturidae on the *Official List of Family-group Names in Zoology* as name no. 229 (with incorrect date and bibliographic reference), and placed Apaturides on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* as name no. 267. I.C.Z.N. *Direction* 118 corrected the bibliographic citation as above.

Genus **Asterocampa** Röber, 1916

In: Seitz, Grossschmett. Erde 5(241): 549. Type-species: *Apatura celtis* Boisduval & Le Conte, [1837], Hist. Lépid. Amér. sept. (19) pl. 57, figs. 1-4; (24): 210-211, by designation of D. Bates (1926), Entomol. News 37(5): 154.

- 652. ***Asterocampa celtis*** (Boisduval & Le Conte, [1835])
a. ***Asterocampa celtis celtis*** (Boisduval & Le Conte, [1835])

Hist. Lépid. Amér. sept. (19): pl. 57, figs. 1 ♂ D, 2 ♂ V, 3 larva, 4 pupa [1835], (24): 210-211 [1837].

Original Combination: *Apatura Celtis*

Type Locality: "Géorgie"; suggested to be "Screven County, Georgia" by Scudder (1872), Can. Entomol. 4(4): 84; defined as "around Savannah" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 187; neotype from "Savannah River, Burke County, Georgia."

Types: Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost. Neotype in CMNH, designated by Gatreille (1999), Tax. Rep. Int. Lepid. Surv. 1(5): 5, figs. 2 top ♂ D, 4 top ♂ V.

= *†lycaon* (Fabricius, 1793)
Entomol. Syst. 3(1): 228, no. 714; cited Jones' Icones 4, pl. 17, fig. 1.

Original

Combination: *P[apilio]. S[atyr]. Lycaon*

Type Locality: Not stated.

Types: Type(s) probably lost.

Preoccupied by *Papilio lycaon* Kühn, 1774, Kurz. Anl. Ins.: 21.

= *alicia* (W. H. Edwards, 1868)
Butterflies N. Am. [1](2): [135-136], pl. Apatura 1, figs. 1 ♂ V, 2 ♂ D, 3 ♀ D, 4 ♀ V.

Original Combination: *Apatura Alicia*

Type Locality: "New Orleans...in the vicinity" [Louisiana]

Types: Types lost.

= *†"alb"* (Strecker, 1878)
Butterflies & Moths N. Am., Comp. Syn. Cat.: 145, no. 293a; cited W. H. Edwards (1875), Butterflies N. Am. 2(3): pl. Apatura 1, figs. 4 ♀ V, 5 ♀ D.

Original Combination: [*Apatura Celtis*] ab. a. ♂♀ *Alb.*

Type Locality: Not stated; "Coalburgh, West Virginia" implied from Edwards' figures. [Kanawha County]

Types: "Types" are the specimens figured in W. H. Edwards, possibly in CMNH.

= *†"inornata"* (Wolcott, 1916)
Entomol. News 27(3): 98-99, pl. 4, fig. 6 ♂ D ("holotype").

Original Combination: *Chlorippe celtis* n. aberr. *inornata*

Type Locality: "near Ashland, Nebraska" [Saunders County]

Types: "Holotype" in OSU.

b. ***Asterocampa celtis reinthali*** Friedlander, 1987
J. Res. Lepid. 25(4): 242-243, pl. 20, figs. D ♂ D, E ♂ V (holotype), F ♀ D.

Original Combination: *Asterocampa celtis reinthali*

Type Locality: "Ocoee, Fla." [Orange County, Florida]

Types: Holotype in CMNH.

c. ***Asterocampa celtis antonia*** (W. H. Edwards, [1878])
Field & Forest 3(6): 103-105.

Original Combination: *Apatura Antonia*

Type Locality: "Texas and Arizona"; defined as "vicinity of Norse, Bosque County, Texas" by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 377-378.

Types: Lectotype in CMNH, designated by Reinthal (1967), in: F. Brown, Trans. Am. Entomol. Soc. 93(3): 379, fig. 18 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 23, fig. 12 ♂ D.

= *montis* (W. H. Edwards, 1883)

Papilio 3(1): 7-8.

Original Combination: *Apatura Antonia* var. *Montis*

Type Locality: "Arizona...Mt. Graham...vicinity of Fort Grant, Cochise Co. [sic!], and on Graham Mountain" from the introduction to the paper. [Graham County]

Types: Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 382, fig. 19 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 23, fig. 11 ♂ D (as '*leilia*').

= *jeffermont* J. Scott & M. Fisher, 2008

Papilio (n.s.) 18: 29-30, pl 3, fourth row left ♂ D, fourth row right ♂ V (holotype).

Original Combination: *Asterocampa celtis jeffermont*

Type Locality: "Indian Gultch, 1 mi. W Golden, Clear Creek Can., Jefferson Co. Colo."

Types: Holotype in BMNH.

‡ "*mexicana*" Freidlander, 1987

J. Res. Lepid. 25(4): 250, 253.

Original Combination: [*Asterocampa celtis antonia*] form *mexicana*

Type Locality: "lower Rio Grande valley of Texas and southward"

Types: Apparently no types were designated. This name seems inadvertently proposed, it certainly was not described; a *nomen nudum*.

653. ***Asterocampa leilia*** (W. H. Edwards, 1874)

Trans. Am. Entomol. Soc. 5(2): 103-104; figured by W. H. Edwards (1875), Butterflies N. Am. 2(3): pl. *Apatura* 1, figs. 7 ♂ D, 8 ♂ V.

Original Combination: *Apatura Leilia*

Type Locality: "Camp Lowell and Sonoto [sic!] Valley, Arizona" [Sonoita Valley, Sant Cruz County]

Types: Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 385, fig. 20 ♂ D&V.

= *cocles* (Lintner, [1885])

Papilio 4(7/8): 141-142, no. 30.

Original Combination: *Apatura Cocles*

Type Locality: "Brownsville, Texas...Hidalgo", implied from the introduction to the paper; defined as "Hidalgo, Texas" by Friedlander (1987), J. Res. Lepid. 25(4): 255. [Hidalgo County]

Types: Lectotype in CMNH, designated by Friedlander (1987), J. Res. Lepid. 25(4): 255.

This name was mentioned by W. H. Edwards [1885], Trans. Am. Entomol. Soc. 11(3/4): 286, no. 250, without description or indication; a *nomen nudum*.

654. ***Asterocampa clyton*** (Boisduval & Le Conte, [1835])

a. *Asterocampa clyton clyton* (Boisduval & Le Conte, [1835])

Hist. Lepid. Amér. sept. (19): pl. 56, figs. 1 ♂ D, 2 ♂ V, 3 larva, 4 pupa [1835]; (24): 208-209 [1837].

Original Combination: *Apatura clyton*

Type Locality: "les parties méridionales des États-Unis"; suggested to be "Georgia" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 188; neotype from "Savannah River, Burke County, Georgia."

Types: Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost. Neotype in CMNH, designated by Gatrell (1999), Tax. Rep. Int. Lepid. Surv. 1(5): 5, fig. 6 bottom ♂ D.

= *proserpina* (Scudder, 1868)

Proc. Boston Soc. Nat. Hist. 11: 401.

Original Combination: [*Apatura*] *Proserpina*

Type Locality: "Iowa"; further defined as "New Jefferson...anywhere along a devious, hundred mile route beginning at Denison, including Wall Lake and Grant City, and terminating at New Jefferson" by Scudder [1870], Trans. Chicago Acad. Sci. 1(2): 332, no. 16, 338.

Types: Type(s) apparently lost (not in MCZ).

= *ocellata* (W. H. Edwards, 1876)

Butterflies N. Am. 2(5): [245-246], pl. *Apatura* 2, figs. 1 ♂ V, 2 ♂ D, 3 ♀ V, 4 ♀ D.

Original Combination: [*Apatura clyton*]

var. *Ocellata*

Type Locality: "Coalburgh, West Virginia" implied from the text. [Kanawha County]

Types: Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 387, fig. 21 ♀ D&V.

= ‡"nig" (Strecker, 1878)

Butterflies & Moths N. Am., Comp. Syn. Cat.: 146, no. 294b.

Original Combination: [*Apatura clyton*] ab. b.

♂ Nig

Type Locality: "Berks Co., Penna." [Pennsylvania]

Types: "Holotype" in FMNH.

‡"apunctus" Scott, 1981

Papilio (n.s.) 1: 5.

Original Combination: *Apatura*

clyton from *apunctus*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

‡"geneumbrosa" Scott, 1986

Butterflies N. Am.: 256, no. 142.

Original Combination: [*Apatura clyton*]

from *geneumbrosa*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

b. *Asterocampa clyton flora* (W. H. Edwards, 1876)

Butterflies N. Am. 2(5): [247-248], figured by W. H. Edwards (1891), Butterflies N. Am. 3(11): pl. *Apatura* 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

- Original Combination:** [*Apatura Clyton*] var. *Flora*
Type Locality: "Palatka, Florida" [Putnam County]
Types: Lectotype in CMNH, designated by F. Brown and Reinthal (1967), *in*: F. Brown, Trans. Am. Entomol. Soc. 93(3): 389, fig. 22 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 23, fig. 1 ♂ D.
- c. ***Asterocampa clyton texana*** (Skinner, 1911)
 Trans. Am. Entomol. Soc. 37(3): 214, 215.
Original Combination: [*Chlorippe clyton*] form/var. *texana*
Type Locality: "Round Mountain, Texas...near Corpus Christi"; holotype from "Round Mountain." [Blanco County]
Types: Holotype (#7038) in CMNH; a paratype figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 60, fig. 6 ♂ D.
 = *subpallida* (W. Barnes & McDunnough, 1913)
 Contr. Nat. Hist. Lepid. N. Am. 2(3): 99, pl. 2, figs. 7 ♂ D, 8 ♀ D, 9 ♀ V.
Original Combination: *C[hlorippe]. clyton subpallida*
Type Locality: "Babaquivera [sic!] Mts., Pima Co., Arizona" [Baboquivari Mts.]
Types: Lectotype in USNM, designated by Friedlander (1987), J. Res. Lepid. 25(4): 263.
- d. ***Asterocampa clyton louisa*** D. Stallings & Turner, 1947
 Entomol. News 58(2): 38.
Original Combination: *Asterocampa clyton louisa*
Type Locality: "Pharr, Texas" [Hidalgo County]
Types: Holotype and allotype in PMNH.
655. ***Asterocampa idyja*** (Geyer, [1828])
In: Hübner, Samml. exot. Schmett. 3: pl. [13], figs. 1 ♂ D, 2 ♂ V; 3 ♀ D 4 ♀ V ("type").
Original Combination: *Doxocopa Idyja*
Type Locality: "Cuba"
Types: Location of type(s) not known, presumed lost.
 = *herse* (Fabricius, 1793)
 Entomol. Syst. 3(1): 229, no. 718.
Original Combination: *P[apilio]. S[atyr]*. *Herse*
Type Locality: Not stated.
Types: Type(s) apparently lost.
 Preoccupied by *Papilio herse* Hufnagel, 1766, Berlin Mag. 2: 84. Friedlander (1987), J. Res. Lepid. 25(4): 272, suggested that this name may best be considered a *nomen dubium*.
 = *padola* (Fruhstorfer, 1912)
 Entomol. Rdsch. 29(2): 14.
Original Combination: *Doxocopa idyja padola*
Type Locality: "Haiti"
Types: Holotype in ZMHB.
- a. ***Asterocampa idyja argus*** (H. Bates, 1864)
 Entomol. Mon. Mag. 1(6): 130-131, no. 60.
Original Combination: *Apatura Argus*
Type Locality: "Motagua Valley, Guatemala"; suggested to be "El Progreso" by Friedlander (1987), J. Res. Lepid. 25(4): 273.
Types: Holotype (#Rh9126) in BMNH.
 = *armilla* (Fruhstorfer, 1912)

Entomol. Rdsch. 29(2): 14.

Original Combination: [*Doxocopa argus*]
forma *armilla* nova

Type Locality: Not stated; lectotype from
"Honduras."

Types: Lectotype in ZMHB, designated by
Friedlander (1987), J. Res. Lepid. 25(4): 273.

Genus **Doxocopa** Hübner, [1819]

Verz. bekannt. Schmett. (4): 49-50. Type-species: *Papilio agathina* Cramer, 1777, Utitl. Kapellen 2(14): 109-110, pl. 167, figs. E, F; (16): 147 (index), by designation of Scudder (1872), 4th Ann. Rept. Peabody Acad. Sci. (1871): 30.

- = *Catargyria* Hübner, [1823]
Samml. exot. Schmett. 2: pl. [64]. Type-species: *Catargyria laura* Hübner, [1823], Samml. exot. Schmett. 2: pl. [64], figs. 1, 2 (not 3, 4) (= *Papilio laura* Drury, 1773, Ill. Nat. Hist. 2: 31, index, pl. 17, figs. 5, 6; subspecies), by monotypy.
- = *Chlorippe* E. Doubleday, [1845]
List Spec. Lepid. Brit. Mus. 1: 108. Type-species: *Nymphalis laurentia* Godart, [1824], in: Ency. méth. 9(Ins.)(2): (335), 376, no. 86, by designation of Scudder (1875), Bull. Buffalo Soc. Nat. Sci. 2(4): 248.
- = ‡*Chlorippe* Boisduval, 1870
Consid. Lépid. Guat.: 47. Type-species: *Nymphalis laurentia* Godart, [1824], in: Ency. méth. 9(Ins.)(2): (335), 376, no. 86, by designation of Hemming (1939), Proc. R. Entomol. Soc. Lond. (B)8(7): 134. Preoccupied by *Chlorippe* E. Doubleday, 1845, List Spec. Lepid. Brit. Mus. 1: 108, and a junior objective synonym of that name.
- = ‡*Celtiphaga* W. Barnes & Lindsey, 1922
Ann. Entomol. Soc. Am. 15(1): 92. Type-species: *Nymphalis laurentia* Godart, [1824], in: Ency. méth. 9(Ins.)(2): (335), 376, no. 86, as a replacement name. Proposed to replace *Chlorippe* E. Doubleday, 1845, erroneously thought preoccupied, and a junior objective synonym of that name.

656. **Doxocopa pavon** (Latreille, [1809])

In: Humboldt and Bonpland, Voy Rég. Équinox., Pt. 2 (Obs. Zool.) 1(4): 197-198, no. 36, pl. 18, figs. 3 ♂ D, 4 ♂ V.

Original Combination: *Nymphalis Pavon*

Type Locality: "le bois ombragés de Loxa" [Loja, Ecuador]

Types: Type(s) may be in MNHP or BMNH.

This name was spelled "pavonii" by Herrich-Schäffer, [1858], Samml. neuer. Aussereurop. Schmett. 1(2)(6): 77; an unjustified emendation.

a. **Doxocopa pavon theodora** (Lucas, 1857)

In: Sagra, Hist. Cuba: 7(2): 575-576, pl. 16, figs. 4 ♀ D, 4a ♀ V.

Original Combination: *Apatura Theodora*

Type Locality: "Ferdinand de Jagua" [Cuba]

Types: Location of type(s) not known, possibly in MNHP.

= *mentas* (Boisduval, 1870)

Consid. Lépid. Guat.: 48.

Original Combination: *Chlorippe Mentas*

Type Locality: "Honduras"

Types: Type(s) probably in MNHP.

- = *cuellinia* Fruhstorfer, 1907
Stettiner Entomol. Ztg. 68(2): 250.
Original Combination: [*Chlorippe*] *pavon cuellinia*
Type Locality: "Mexiko"
Types: Location of type(s) not known.
- = *inumbratus* Fruhstorfer, 1907
Stettiner Entomol. Ztg. 68(2): 250.
Original Combination: [*Chlorippe*] *pavon inumbratus*
Type Locality: "Paraguay"
Types: Location of type(s) not known.
- = *subtuniformis* (Röber, 1916)
In: Seitz, Grossschmett. Erde 5(241): 546.
Original Combination: [*Chlorippe pavon*] *subtuniformis*
Type Locality: Not stated.
Types: Location of type(s) not known.
- 657. **Doxocopa laure** (Drury, 1773)
 - a. **Doxocopa laure laure** (Drury, 1773)
Ill. Nat. Hist. 2: 31, index, pl. 17, figs. 5 ♂ D, 6 ♂ V.
Original Combination: *Papilio*. *Nymph[alis]*.
Phal[eratus] *Laure*
Type Locality: "Bay of Honduras"
Types: Type(s) probably lost.
 - = *acca* (C. Felder & R. Felder, 1867)
Reise Novara Zool. (3): 435, no. 703, pl. 57, fig. 2 ♂ D.
Original Combination: *Apatura Acca*
Type Locality: "Mexico"
Types: Type(s) possibly in BMNH.
 - = *laurina* Bryk, 1938
Lepid. Cat. 86: 349; cited *Chlorippe laura* (*sensu* Boisduval (1870), *Lepid. Guat.*: 47), and *Apatura laura* (*sensu* Wood (1874), *Insects Abroad*: 614, fig. 354).
Original Combination: [*Doxocopa linda*] *laurina*
Type Locality: "Guatemala" and "Nicaragua" implied from the citations.
Types: Location of type(s) not known.
 - = ‡"majugena" (Fruhstorfer, 1907)
Stettiner Entomol. Ztg. 68(2): 245.
Original Combination: [*Catargyria laure mileta*] ♀ forma *majugena*
Type Locality: "Honduras"
Types: Location of holotype not known.

Subfamily **Biblidinae** Boisduval, 1833

Nouv. Anns. Mus. Hist. Nat., Paris 2(2): 201 (as "Biblides"). Type-genus: *Biblis* [Fabricius], 1807, *in:* Illiger, *Mag. f. Insektenk.* 6: 281, no. 13.

Tribe **Biblidini** Boisduval, 1833

Genus **Biblis** [Fabricius], 1807

In: Illiger, *Mag. f. Insektenk.* 6: 281, no. 13. Type-species: *Papilio biblis* Fabricius, 1775, *Syst. Entomol.*: 505, no. 261 (= *Papilio hyperia* Cramer, 1779, *Uitl. Kapellen* 3(20): 74, pl. 236, figs. E, F; (24): 175 (index); homonym), by tautonymy.

- = ‡*Zonaga* Billberg, 1820
Enum. Ins. Mus. Billb.: 78. Type-species: *Papilio biblis* Fabricius, 1775, Syst. Entomol.: 505, no. 261 (= *Papilio hyperia* Cramer, 1780, Uitl. Kapellen 3(20): 74, pl. 236, figs. E, F; (24): 175 (index); homonym), by monotypy. A junior objective synonym of *Biblis* [Fabricius], 1807.

- *658. *Biblis hyperia*** (Cramer, 1779)
Uitl. Kapellen 3(20): 74, pl. 236, figs. E ♂ D, F ♂ V; (24): 175 (index).

Original

Combination: *Pap[ilio]. Nymph[alis]. Phaler[ata]. Hyperia*

Type Locality: "Eiland St. Thomas in de Westindiën" "l'Isle de St. thomas, aux indes Occidentales" [United States Virgin Islands]

Types: Type(s) probably lost.

- = ‡*biblis* (Fabricius, 1775)
Syst. Entomol.: 505, no. 261.

Original

Combination: *P[apilio]. N[ymphalis]. P[halerata]. Biblis*

Type Locality: "America"

Types: Probable holotype in ZMUC.

Preoccupied by *Papilio biblis* Drury, 1773, Ill. Nat. Hist. 1: 9, pl. 4, fig. 2; 2: index.

- = ‡*thadana* Godart, [1819]
In: Enc. méth. 9(Ins.)(1): 326, no. 1.

Original Combination: *Biblis Thadana*

This name was proposed to replace *Papilio biblis* Fabricius, 1775, on the basis of tautonymy; a junior objective synonym. Grimshaw (1897), Trans. R. Soc. Edinburgh 39, part I(1): 5, recorded one ♀ "type" from the Dufresne collection in RSME; this cannot be a type since *thadana* is a replacement name.

- a. *Biblis hyperia aganisa*** Boisduval, 1836
Spec. gén. Lépid. 1: pl. 9 [=5B], fig. 7 ♂ V, explication plate.
Original Combination: *Biblis Aganisa*
Type Locality: "Java" in error. Godman and Salvin (1893), Biol. centr.-amer., Lepid. Rhop. 1(26): 276, stated that this was a transposition of "Mexique" as given for *Melanitis ceryx*, figured on the same plate, and more probably from "Java."

- Types:** Type(s) may be in MNHP or BMNH.
= *pasira* (E. Doubleday, [1848])
In: Gen. diurn. Lepid. (1): pl. 31, fig. 2 ♂ D [1848]; (2)(45): 406 (1849).

Original Combination: *Didonis Pasira*

Type Locality: "Guiana"

Types: Syntype in BMNH.

‡"quautemotzin" (Arias, 1968)
Exp. cient. españ. siglo XVIII, Exp. Bot. Nueva España: 395.

Original Combination: *Papilio Quautemotzin*
Proposed without a description; a *nomen nudum*.

‡"ququhtemotzin" (Arias, 1968)

Exp. cient. españ. siglo XVIII, Exp. Bot. Nueva España: pl. [109], figs. 5-6.

Original Combination: *Miahuaxochitl Ququhtemotzin*

Proposed without a description; a *nomen nudum*.

Genus **Mestra** Hübner, [1825]

Samml. exot. Schmett. 2: pl. [45]. Type-species: *Mestra hypermnestra* Hübner, [1825], Samml. exot. Schmett. 2: pl. [45], figs. 1, 2, 3, 4, by monotypy.

- = *Cystineura* Boisduval, 1836
Spec. gén. Lépid. 1: pl. 9 [=5B], fig. 1. Type-species: *Papilio hersilia* Fabricius, 1777, Gen. Ins.: 265 (= *Papilio dorcas* Fabricius, 1775, Syst. Entomol.: 508, no. 275; subspecies), by monotypy.

659. **Mestra amymone** (Ménétriés, 1857)

Enum. corp. anim. (2): 123-124, no. 1306, pl. 9, fig. 6 ♂
D&V.

Original Combination: *Cystineura amymone*

Type Locality: "Nicaragua"

Types: Syntypes in ZIN.

This taxon is considered a subspecies of *Mestra dorcas* Fabricius, 1775, Syst. Entomol.: 508, no. 275, by Lamas and Small (1992), in: Quintero and Aiello (Eds.), Ins. Panama Mesoamer.: 556, A. Warren, Vargas, Luis and Llorente (1998), J. Lepid. Soc. 52(1): 61 and Lamas *et al.* (2004), Atl. Neotrop. Lepid. Chcklst. Part 4A: 235

Tribe **Catonephelini** Orfila, 1952 (1865)

An. Soc. Cient. Argent. 154(3): 103. Type-genus: *Catonephele* Hübner, [1819], Verz. bekannt. Schmett. (3): 40. This family-group name was in competition with "Epicalidae" Guénée, 1865, in: Vinson, Voy. Madagascar, Annexe F: 28. Orfila proposed that this name replace "Epicaliini" [*sic*] because *Catonephele* Hübner, [1819], is senior to *Epicalia* E. Doubleday, [1845]. Code Article 40.2 clearly provides that such action taken before 1961, and becoming widely accepted, is valid.

Genus **Eunica** Hübner, [1819]

Verz. bekannt. Schmett. (4): 61. Type-species: *Papilio monima* Stoll, 1782, Uitl. Kapellen 4(33): 202, pl. 387, figs. F, G; (34): 250 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci. 10(2): 171, no. 426.

- = *Evonyma* Hübner, [1819]
Verz. bekannt. Schmett. (4): 61. Type-species: *Papilio amelia* Cramer, 1777, Uitl. Kapellen 2 (12): 61, pl. 136, figs. B, C; (16): 147 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 176, no. 458.
- = ‡*Eunice* Geyer, 1832
In: Hübner, Zutr. Samml. Exot. Schmett. 4: 39, no. 392.
Type-species: *Eunice taurione* Geyer, 1832, in: Hübner, Zutr. Samml. Exot. Schmett. 4: pl. [135], figs. 783, 784; 39, no. 392 (= *Nymphalis marsolia* Godart, [1824], Ency. méth. 9(Ins.)(2): 418, no. 214; synonym), by designation of Hemming (1939), Proc. R. Entomol. Soc. Lond. (B)8(7): 134. Preoccupied by *Eunice* Rafinesque, 1815, Analyse Nat.: 135, and *Eunice* Schinz, 1822, in: Cuvier, Thierreich 2: 310.
- = ‡*Callianira* E. Doubleday, 1847
In: Gen. diurn. Lepid. (1)(14): pl. 28, fig. 1; (2)(32): 251 (1850). Type-species: *Callianira alcmena* E. Doubleday, [1847], in: Gen. diurn. Lepid. (1)(14): pl. 28, fig. 1, by



- monotypy. Preoccupied by *Callianira* Péron & Lesuer, 1810, Ann. Mus. Hist. Nat., Paris 15(85): 65, and *Callianira* Hübner, [1819], Verz. bekannt. Schmett. (3): 38.
- = ‡*Faunia* Poey, 1847
Mem. Soc. R. Econ. Habana (2)3(3): 178. Type-species: *Papilio orphise* Cramer, 1775, Uitl. Kapellen 1(4): 67, pl. 42, figs. E, F; (8): 154 (index), by monotypy. Preoccupied by *Faunia* Robineau-Desvoidy, 1830, Mem. pres. Acad. Sci., Paris 2: 270.
- = ‡*Amycla* E. Doubleday, 1849
In: Gen. diurn. Lepid. (1)(28): 223. Type-species: *Eunice taurione* Geyer, 1832, in: Hübner Zutr. Samml. Exot. Schmett. 4: pl. [135], figs. 783, 784; 39, no. 392 (= *Nymphalis marsolia* Godart, [1824], Ency. méth. 9(Ins.)(2): 418, no. 214; synonym), by monotypy. Preoccupied by *Amycla* Rafinesque, 1815, Analyse Nat.: 118.
- = *Libythina* C. Felder, 1861
Nova Acta Acad. Caes. Leop.-Carol. germ. Nat. Cur. 28(3): 49, no. 101. Type-species: *Libythea cuvierii* Godart, 1819, Ency. méth. 9(Ins.)(1): 171, no. 6, by monotypy.

- 660. *Eunica monima* (Stoll, 1782)**
Uitl. Kapellen 4(33): 202, pl. 387, figs. F ♂ D, G ♂ V; (34): 250 (index).
Original
Combination: *Pap[ilio]. Nymph[alis]. Phaler[ata] Monima*
Type Locality: "Kust van Guinea by Della Mina" "Côte de Guinée, pres de Della Mina" in error.
Types: Type(s) probably lost.
- = ‡*myrto* (Godart, [1824])
In: Enc. méth. 9(Ins.)(2): 418, no. 213.
Original Combination: *Nymphalis Myrto*
Proposed to replace *Papilio monima* Stoll, 1782, erroneously though preoccupied; a junior objective synonym of *monima*.
- = *modesta* H. Bates, 1864
Entomol. Mon. Mag. 1(5): 113, no. 45.
Original Combination: *Eunica Modesta*
Type Locality: "Guatemala"; syntypes from "Centr. Valleys."
Types: Syntypes (#Rh9308, 9475) in BMNH; figured by Jenkins (1990), Bull. Allyn Mus. (131): figs. 136 ♂ D, 137 ♂ V, 138 ♀ D, 139 ♀ V.
- = *fairchildi* D. Bates, 1935
Bull. Mus. Comp. Zool. 78(2): 177, no. 81.
Original Combination: *Eunica pusilla fairchildi*
Type Locality: "La Milpa, Cienfuegos Bay, Sta. Clara" [Cuba]
Types: Holotype (#16604) in MCZ.
- = *petraea* Fabricius, 1938
In: Bryk, Syst. Glossat.: 87-88, no. 14.
Original Combination: *L[imenitis]. Petraea*
Type Locality: "America meridionali"; suggested to be "probably from St. Croix, Virgin Islands" by F. Brown (1988), Trans. Am. Entomol. Soc. 113(4): 441. [U. S. Virgin Islands]
Types: Syntype in ZMUC.

The placement of this name here remains tentative until the syntype is examined. Brown (1988), *ibid.*, and Lamas *et al.* (2004), Atl. Neotrop. Lepid. Chcklst. Part 4A: 237, considered it *anomen dubium*.

= ‡*habanae* Seitz, 1915

In: Seitz, Grossschmett. Erde 5(202): pl. 100Ac, figs. [5] ♀ V, [6] ♂ D (1914); (203): 485.

Original Combination: [*Eunica monima*] *habanae* form nov.

Type Locality: "Cuba"; "Havana" implied from the formation of the name.

Types: Location of types not known.

The text clearly indicates that this taxon was described as an individual variant.

661. ***Eunica tatila*** (Herrich-Schäffer, [1855])

a. ***Eunica tatila tatila*** (Herrich-Schäffer, [1855])

Samml. neuer. Aussereurop. Schmett. 1(2): 54; 1(2)(4): pl. 17, figs. 69 ♂ D, 70 ♂ V, 71 ♀ D, 72 ♀ V.

Original Combination: *Cybdelis Tatila*

Type Locality: "Am Mer." implied from the text, "Mexico" from the plate caption.

Types: Syntypes possibly in BMNH.

= *caerula* Godman & Salvin, 1877

Proc. Zool. Soc. Lond. 1877(1): 64, no. 12.

Original Combination: *Eunica Caerula*

Type Locality: "Guatemala"; syntypes from "Rio Polochic."

Types: Syntypes (#Rh9307) in BMNH.

b. ***Eunica tatila tatilista*** Kaye, 1926

Trans. Entomol. Soc. Lond. 73(3/4): 473-474, no. 22.

Original Combination: *Eunica tatila tatilista*

Type Locality: "Rae Town" [Jamaica]

Types: Holotype in MGCL.

Genus ***Myscelia*** E. Doubleday, [1845]

List Spec. Lepid. Brit. Mus. 1: 88. Type-species: *Papilio orsis* Drury, 1782, Ill. Nat. Hist. 3: 20, index, pl. 16, fig. 3, by designation of W. Barnes and Benjamin (1926), Bull. South. Calif. Acad. Sci. 25(1): 15.

= ‡*Sagaritis* Hübner, [1821]

Samml. exot. Schmett. 2: pl. [43]. Type-species: *Sagaritis orseis* Hübner, [1821], Samml. exot. Schmett. 2: pl. [43], figs. 1, 2, 3, 4 (= *Papilio orsis* Drury, 1782, Ill. Nat. Hist. 3: 20, index, pl. 16, fig. 3), by monotypy. Preoccupied by *Sagaritis* Billberg, 1820, Enum. Ins. Mus. Billberg: 134.

662. ***Myscelia ethusa*** (Doyère, [1840])

a. ***Myscelia ethusa ethusa*** (Doyère, [1840])

In: Cuvier, Règne Animal. (3rd ed.) Ins. 2(10): pl. 138, figs. 3, 3b ♂ D&V.

Original Combination: *Cybdelis Ethusa*

Type Locality: Not stated; "Mexico" implied by Jenkins (1984), Bull. Allyn Mus. (87): 41.

Types: Syntype in USNM.

= *rogenhoferi* R. Felder, 1869

Verh. zool.-bot. Ges. Wien 19: 472, no. 22.

Original Combination: *Myscelia Rogenhoferi*

Type Locality: "Huahuapan" [Huajuapán de León, Oaxaca, Mexico]

Types: Location of type(s) not known, possibly in BMNH.

- *663. **Myscelia cyananthe** C. Felder & R. Felder, 1867
Reise Novara Zool. (3): 408-409, no. 619, pl. 53, figs. 6 ♂ D, 7 ♂ V.

Original Combination: *Myscelia Cyananthe*

Type Locality: "Mexico"

Types: Holotype (#Rh9291) in BMNH; figured by Jenkins (1984), Bull. Allyn Mus. (87): figs. 70 ♂ D, 71 ♂ V.

- a. **Myscelia cyananthe skinneri** Mengel, 1894
Entomol. News 5(3): 96.

Original Combination: *Myscelia skinneri*

Type Locality: "Bayemena, Sinoloa [sic!], Mex."
[Sinaloa, Mexico]

Types: Lectotype in RPM, designated by Fox (1942), Read. Pub. Mus., Sci. Pubs. 4: pl. 1, fig. 1 ♂ D; "types" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 74, figs. 13 ♂ D, 14 ♂ V, 15 ♀ D, 16 ♀ V.

Tribe **Ageroniini** E. Doubleday, 1847

In: Gen. diurn. Lepid. (1): pl. 10; (8): 81 (as "Ageronidae"). Type-genus: *Ageronia* Hübner, [1819], Verz. bekannt. Schmett. (3): 42.

Genus **Hamadryas** Hübner, [1806]

Samml. exot. Schmett. 1: pl. [47]. Type-species: *Papilio amphinome* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 779-780, no. 176, by monotypy.

- = ‡*Apatura* [Illiger], [1807]
Allg. Lit.-Zeit. 2(303): 1181. Type-species: *Papilio amphinome* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 779-780, no. 176, by monotypy. I.C.Z.N. *Opinion* 232 suppressed this name and placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 37.
- = *Ageronia* Hübner, [1819]
Verz. bekannt. Schmett. (3): 42. Type-species: *Papilio chloe* Stoll, 1787, Aanhangs. Werk Uitl. Kapellen Pieter Cramer (1): 22, pl. 5, figs. 1, 1a; (3): 382 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 104-105, no. 34.
- = ‡*Philocala* Billberg, 1820
Enum. Ins. Mus. Billb.: 79. Type-species: *Papilio amphinome* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 779-780, no. 176, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 248, no. 851. A junior objective synonym of *Hamadryas*.
- = *Peridromia* Lacordaire, 1833
Annls. Soc. Entomol. Fr. [1]2: 392. Type-species: *Papilio arethusa* Cramer, 1775, Uitl. Kapellen 1(7): 122-123, pl. 77, figs. E, F; (8): 151 (index) (= *Papilio laodamia* Cramer, 1777, Uitl. Kapellen 2(11): 49, pl. 130, fig. A; (16): 149 (index); homonym), by designation of Lamas (1980), J. Lepid. Soc. 34(2): 85.
- = ‡*Peridromia* Boisduval, [1836]
Spec. gén. Lépid. 1: pl. 23 [= 7C], fig. 5. Type-species: *Papilio arethusa* Cramer, 1775, Uitl. Kapellen 1(7): 122-123, pl. 77, figs. E, F; (8): 151 (index) (= *Papilio laodamia* Cramer, 1777, Uitl. Kapellen 2(11): 49, pl. 130, fig. A; (16): 149 (index); homonym), by monotypy. Preoccupied



- by *Peridromia* Lacordaire, 1833, Annls. Soc. Entomol. Fr. [1]2: 392.
- = *Amphichlora* C. Felder, 1861
Nova Acta Acad. Caes. Leop.-Carol. germ. Nat. Cur. 28(3): 19, under *Ageronia*, no. 37. Type-species: *Papilio feronia* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 473, no. 95, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 109-110, no. 63.
- *664. Hamadryas februa** (Hübner, [1823])
Samml. exot. Schmett. 2: pl. [41], figs. 1 ♂ D, 2 ♂ V.
Original Combination: *Ageronia Februa*
Type Locality: Not stated; listed as "Amer. Mer. Et Centr., Mexico" by W. F. Kirby (1908), in: P. Wytzman, Facsimile ed. Hübner Samml. exot. Schmett. 3(addit. notes): 31; suggested to be "Amazonas gebiet oder dem nördlichen Theil von Brasilien" by Fruhstorfer (1916), in: Seitz, Grossschmett. Erde 5(206): 539.
Types: Type(s) probably lost.
- = *atinia* ([Fruhstorfer], 1914)
In: Seitz, Grossschmett. Erde 5(192): pl. 105c, fig. [3] ♂ D (1914); (206): 540 (1916) (as *Ageronia februa atinia*).
Original Combination: [*Ageronia februa*] *atinia*
Type Locality: "süd brasilianische...Amazonasgebietes...Rio Grande do Sul und Sta. Catharina"
Types: Syntypes (15-108) in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 22, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.
Fruhstorfer is considered the author of the name, as given on the plate.
- = *sabatia* (Fruhstorfer, 1916)
In: Seitz, Grossschmett. Erde 5(206): 540.
Original Combination: [*Ageronia februa*] *sabatia*
Type Locality: "Mato Grosso, Cuiabá" [Brazil]
Types: Syntypes in BMNH.
- = *sellasia* (Fruhstorfer, 1916)
In: Seitz, Grossschmett. Erde 5(206): 540.
Original Combination: [*Ageronia februa*] *sellasia*
Type Locality: "Paraguay"
Types: Syntypes in BMNH.
‡"maina" Talbot, [1923]
Fruhstorfer Colln.: 54.
Original Combination: *Ageronia ferox maina*
Proposed without description or indication; a *nomen nudum*.
- a. Hamadryas februa ferentina** (Godart, [1824])
Enc. méth. 9(Ins.)(2): 428, no. 248; cited *Papilio feronia* Stoll (1781), Uitl. Kapellen 4(31): 140, pl. 362, figs. A ♂ D, B ♂ V; (34): 249 (index).
Original Combination: *Nymphalis Ferentina*
Type Locality: "Indes Orientales" in error.
Types: Location of type(s) not known.
Proposed for the figures in Stoll (1781), from "Indes Orientales."
= *gudula* ([Fruhstorfer], 1914)

In: Seitz, Grossschmett. Erde 5(192): pl. 105d, fig. [4] ♂ D (1914); (206): 539 (1916) (as *Ageronia februa gudula*).

Original Combination: [*Ageronia februa*] *gudula*

Type Locality: "westliche Mexico"; a syntype from "Texas."

Types: Syntype in BMNH; figured in Jenkins (1983), Bull. Allyn Mus. (81): 24, figs. 11 ♀ D, 12 ♀ V.

Fruhstorfer is considered the author of the name, as given on the plate.

= *sodalia* (Fruhstorfer, 1916)

In: Seitz, Grossschmett. Erde 5(206): 540.

Original Combination: [*Ageronia februa*] *sodalia* form nov.

Type Locality: "östlichen und südlichen Mexiko"

Types: Syntype in BMNH.

= *hierone* (Fruhstorfer, 1916)

In: Seitz, Grossschmett. Erde 5(206): 540.

Original Combination: [*Ageronia februa*] *hierone*

Type Locality: "Halbinsel Yucatan" [Mexico]

Types: Location of type(s) not known.

= *fundania* (Fruhstorfer, 1916)

In: Seitz, Grossschmett. Erde 5(206): 540.

Original Combination: [*Ageronia februa*] *fundania*

Type Locality: "Honduras"; further defined as "San Pedro Sula" by Jenkins (1983), Bull. Allyn Mus. (81): 24.

Types: Syntype in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 24, figs. 9 ♂ D, 10 ♂ V.

= *icilia* (Fruhstorfer, 1916)

In: Seitz, Grossschmett. Erde 5(206): 540.

Original Combination: [*Ageronia februa*] *icilia*

Type Locality: "Trinidad"; defined as "Trinidad, Belmont" by Jenkins (1983), Bull. Allyn Mus. (81): 24.

Types: Syntype in BMNH.

***665. Hamadryas amphichloe** (Boisduval, 1870)

Consid. Lépid. Guat.: 27.

Original Combination: *Ageronia Amphichloe*

Type Locality: "Guayaquil" [Ecuador]

Types: Syntype in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 29, figs. 13, ♂ D, 14, ♂ V.

= *tegyra* (Fruhstorfer, 1916)

In: Seitz, Grossschmett. Erde 5(206): 541.

Original Combination: [*Ageronia ferox*] *tegyra*

Type Locality: "Ecuador"

Types: Location of type(s) not known.

a. Hamadryas amphichloe diasia (Fruhstorfer, 1916)

In: Seitz, Grossschmett. Erde 5(206): 541.

Original Combination: [*Ageronia ferox*] *diasia*

Type Locality: "Porto Rico und Haiti"

Types: Location of type(s) not known, possibly lost.

= *antillana* (A. Hall, 1925)

Entomol. 58(8)[747]: 187, no. 72.

Original Combination: *Ageronia februa antillana*

Type Locality: "most wooded places up to 2000 feet" implied from the text, "Hispaniola" from the title of the paper; syntypes from "Puerto Plata, La



- Cumbra, 1600 ft." and "Santo Domingo." [Dominican Republic]
Types: Syntypes in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 32, figs. 21 ♂ D, 22 ♂ V, 23 ♀ D, 23 ♀ V.
666. **Hamadryas glauconome** (H. Bates, 1864)
 a. **Hamadryas glauconome glauconome** (H. Bates, 1864)
 Entomol. Mon. Mag. 1(5): 114-115, no. 48.
Original Combination: *Ageronia Glauconome*
Type Locality: "Guatemala, interior"; syntype from "Verapaz."
Types: Syntype (#Rh9258) in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 36, figs. 29 ♂ D, 30 ♂ V. Recorded from Texas by Bordelon & Knudsen (2009), News Lepid. Soc. 51(1): 5, 8, figs. 5 ♂ D, 6 ♂ V.
 = *oenoe* (Boisduval, 1870)
 Consid. Lépid. Guat.: 26-27.
Original Combination: *Ageronia Oenoe*
Type Locality: "Costa-Rica...Yukatan"; syntype from "Yukatan." [Yucatán, Mexico]
Types: Syntype in BMNH.
 = *megala* (Fruhstorfer, 1914)
In: Seitz, Grossschmett. Erde 5(192): pl. 105b, fig. [5] ♀ D (actually a ♂) (1914) (as *glauconome*; (206): 540 (1916).
Original Combination: [*Ageronia februa*] *megala*
Type Locality: "südlichen Mexiko"
Types: Location of type(s) not known (Fruhstorfer collection).
 ‡"aenoe" (E. Doubleday, 1847)
In: Gen. diurn. Lepid. 1(8): 83.
Original Combination: *Ag[eronia]. AEnoë*
 Proposed without description or indication;
a nomen nudum.
- b. **Hamadryas glauconome grisea** Jenkins, 1983
 Bull. Allyn Mus. (81): 38-39, figs. 33 ♂ D, 34 ♂ V (holotype); 35 ♀ D, 36 ♀ V.
Original Combination: *Hamadryas glauconome grisea*
Type Locality: "Mexico, 'Sinaloa', no specific locality"
Types: Holotype in USNM.
- *667. **Hamadryas atlantis** (H. Bates, 1864)
 Entomol. Mon. Mag. 1(5): 115-116, no. 50.
Original Combination: *Ageronia Atlantis*
Type Locality: "Guatemala, central valleys"; holotype from "Chuacús about 3,000 ft."
Types: Holotype (#Rh9260) in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 45, figs. 43 ♀ D, 44 ♀ V.
 a. **Hamadryas atlantis lelaps** (Godman & Salvin, 1893)
 Biol. centr.-amer., Lepid. Rhop. 1(26): 270, no. 4.
Original Combination: *Ageronia lelaps*
Type Locality: "Mexico, Ventanas...State of Durango, Mexico, at an altitude of about 3000 feet"
Types: Holotype (#Rh9259) in BMNH.
- *668. **Hamadryas feronia** (Linnaeus, 1758)
 Syst. Nat. (ed. 10): 473, no. 95; cited Clerck [1764], Icon. Ins. 2: pl. 31, fig. 1 ♂ D&V.
Original Combination: *P[apilio]. Nymphalis gemmatus* *Feronia*



- Type Locality:** "India"; suggested to be "probably Guianas" by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 326.
Types: Type(s) apparently lost.
- = *catablymata* (Fruhstorfer, 1916)
In: Seitz, Grossschmett. Erde 5(206): 542.
Original Combination: [*Ageronia feronia*] *catablymata*
Type Locality: "mittelbrasilianischen" [Central Brazil]
Types: Location of type(s) not known.
- = *nobilita* (Fruhstorfer, 1916)
In: Seitz, Grossschmett. Erde 5(206): 543.
Original Combination: [*Ageronia feronia*] *nobilita*
Type Locality: "Venezuela und Colombien...Panamá, Chiriqui...Venezuela"
Types: Syntypes in BMNH; one figured by Neild (1996), Butterflies of Venezuela 1: pl. 15, fig. 706 ♀ D.
 Neild (1996), Butterflies of Venezuela 1: 85, treats this as a synonym of *feronia*.
- = *obumbrata* (Fruhstorfer, 1916)
In: Seitz, Grossschmett. Erde 5(206): 542.
Original Combination: [*Ageronia feronia*] *obumbrata*
Type Locality: "Paraguay"
Types: Syntype in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 58, figs. 69 ♂ D, 70 ♂ V.
- = *peruviana* (Bryk, 1953)
 Ark. Zool. (ns)5(1): 114, no. 256.
Original Combination: *Peridromia feronia* ssp. *peruviana*
Type Locality: "Roque, SW Moyob" [Peru]
Types: Syntypes in NHRS.
- a. **Hamadryas feronia farinulenta** (Fruhstorfer, 1916)
In: Seitz, Grossschmett. Erde 5(206): 542.
Original Combination: [*Ageronia feronia*] *farinulenta*
Type Locality: "Honduras"; syntypes from "Honduras, Cortés, San Pedro Sula" and "Mexico."
Types: Syntypes in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 61, figs. 73 ♂ D, 74 ♂ V, 75 ♀ D, 76 ♀ V.
- = *insularis* (Fruhstorfer, 1916)
In: Seitz, Grossschmett. Erde 5(206): 542.
Original Combination: [*Ageronia feronia*] *insularis*
Type Locality: "Insel Trinidad"; syntypes from "Trinidad, Belmont."
Types: Syntypes in BMNH.
- *669. **Hamadryas guatemalena** (H. Bates, 1864)
 Entomol. Mon. Mag. 1(5): 115, no. 49.
Original Combination: *Ageronia Guatemalena*
Type Locality: "Guatemala, central valleys"
Types: Syntype (#Rh9261) in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 65, figs. 77 ♂ D, 78 ♂ V.
- = *elata* (Fruhstorfer, 1907)
 Stettiner Entomol. Ztg. 68(1): 16-17.
Original Combination: *Ageronia guatemalena elata*
Type Locality: "Espiritu-Santo" [Brazil]
Types: Syntypes in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 68, figs. 85 ♂ D, 86 ♂ V, 87 ♀ D, 88 ♀ V.
- = *eupolema* (Fruhstorfer, 1916)
In: Seitz, Grossschmett. Erde 5(206): 542.

- Original Combination:** [*Ageronia guatemalena*] *eupolema*
Type Locality: "Halbinsel Yucatan to Panama"
Types: Location of type(s) not known.
- a. **Hamadryas guatemalena marmarice** (Fruhstorfer, 1916)
In: Seitz, Grossschmett. Erde 5(206): 542.
Original Combination: [*Ageronia guatemalena*] *marmarice*
Type Locality: "Orizaba and Guadajajara (Mexico)"; syntype from "Mexico, Veracruz, Orizaba."
Types: Syntype (15-116) in BMNH, figured by Jenkins (1983), Bull. Allyn Mus. (81): 67, figs. 81 ♂ D, 82 ♂ V.
- *670. **Hamadryas iphthime** (H. Bates, 1864)
Entomol. Mon. Mag. 1(5): 116, no. 51.
Original Combination: *Ageronia iphthime*
Type Locality: "Guatemala; also New Granada"; lectotype from "Colombia."
Types: Lectotype in BMNH, designated by Jenkins (1983), Bull. Allyn Mus. (81): 79; figured by Neild (1996), Butterflies of Venezuela 1: pl. 15, fig. 707 ♂ D.
 = *gervasia* (Fruhstorfer, 1916)
In: Seitz, Grossschmett. Erde 5(206): 543.
Original Combination: [*Ageronia iphthime*] *gervasia*
Type Locality: "Bahia angefangen, durch alle brasilianischen Provinzen bis und mit Rio grande do Sul vorkommen"; syntype from "Brazil, Rio Grande do Sul."
Types: Syntypes in BMNH; one figured by Jenkins (1983), Bull. Allyn Mus. (81): 71, figs. 89 ♂ D, 90 ♂ V.
 = *aternia* (Fruhstorfer, 1916)
In: Seitz, Grossschmett. Erde 5(206): 543.
Original Combination: [*Ageronia iphthime*] *aternia*
Type Locality: "Bolivien"; syntype from "Bolivia, La Paz, Chimate."
Types: Syntypes in BMNH; one figured by Jenkins (1983), Bull. Allyn Mus. (81): 71, figs. 91 ♀ D, 92 ♀ V.
 = *lindmani* (Bryk, 1953)
Ark. Zool. (ns) 5(1): 115, no. 259b.
Original Combination: [*Peridromia epinome*] ssp. *lindmani*
Type Locality: "Mato Grosso" [Brazil]
Types: Holotype in NHRS.
 ‡"itania" (Talbot, [1923])
Fruhstorfer Colln.: 54.
Original Combination: *Ageronia iphthime* [sic!] *itania*
 Proposed without description or indication; a *nomen nudum*.
- a. **Hamadryas iphthime joannae** Jenkins, 1983
Bull. Allyn Mus. (81): 72-73, figs. 93 ♂ D, 94 ♂ V (holotype); 95 ♀ D, 96 ♀ V.
Original Combination: *Hamadryas iphthime joannae*
Type Locality: "Mexico, Oaxaca, Chiltepec"
Types: Holotype in MGCL.
- *671. **Hamadryas amphinome** (Linnaeus, 1767)
Syst. Nat. (ed. 12) 1(2): 779-780, no. 176; cited Kleemann (1761), *Beytr. Nat. Ins.* 1: pl. 10, fig. 1 ♂ D, 2 ♂ V, and Merian (1705), *Ins. Surin.*: pl. 8 D&V.



Original Combination: *P[apilio]. M[ymphalis phaleratus]. Amphinome*

Type Locality: "America meridionali"; suggested to be "Surinam" by Jenkins (1983), Bull. Allyn Mus. (81): 87.

Types: Types apparently lost.

= *morsina* (Fruhstorfer, 1916)

In: Seitz, Grossschmett. Erde 5(206): 544.

Original Combination: [*Ageronia amphinome*] *morsina*

Type Locality: "Colombien"

Types: Syntype in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 87, figs. 119 ♀ D, 120 ♀ V and by Neild (1996), Butterflies of Venezuela 1: pl. 15, fig. 714 ♂ D.

= *regina* (Fruhstorfer, 1915)

In: Seitz, Grossschmett. Erde 5(237): pl. 104b; 5(206): 544.

Original Combination: [*Ageronia amphinome*] *regina*

Type Locality: "Espíritu Santo"; syntypes from "Bahia and Espírito Santo." [Brazil]

Types: Syntypes in BMNH.

This name was misspelled as "aegina" on page 544, but correctly on the plate and index; an incorrect original spelling.

= ‡"nysa" (Oberthür, 1912)

Étud. Lépid. Comp. 6: 311, pl. 99, fig. 953 ♂ D&V.

Original Combination: *Ageronia Amphinome-Nysa*

Type Locality: "Environs de Bogota, en Nouvelle-Grenade" [Columbia]

Types: Holotype (15-124) in BMNH.

The text clearly indicates that this taxon was described as an individual variant.

‡"sairis" Talbot, [1923]

Fruhstorfer Colln.: 53.

Original Combination: *Peridromia amphinome sairis*

Proposed without a description or indication; a *nomen nudum*.

a. **Hamadryas amphinome mexicana** (Lucas, 1853)

Revue Mag. Zool. (2)5(7): 311-312.

Original Combination: *Peridromia Mexicana*

Type Locality: "Mexique"

Types: Location of type(s) not known, probably in MNHP.

Tribe **Epiphelini** Jenkins, 1987

Bull. Allyn Mus. (114): 9 (mentioned), 48. Type-genus: *Epiphile* E. Doubleday, [1845], List Spec. Lepid. Brit. Mus. 1: 90.

Genus **Temenis** Hübner, [1819]

Verz. bekannt. Schmett. (3): 34; Type-species: *Papilio merione* Fabricius 1781, Spec. Ins., 2: 94, no. 411 (= *Papilio laothoe* Cramer, 1777, Uitl. Kapellen 2 (11): 55, pl. 132, figs. A, B: 149 (index); homonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 278.

= ‡*Paromia* Hewitson, 1861

Ill. exot. Butterflies 2(40): pl. Epiphile II & Paromia, [49].

Type-species: *Paromia pulchra* Hewitson, 1861, Ill. exot.

Butterflies 2(40): [49], pl. Epiphile II & Paromia, figs. 1, 2, by



- monotypy. Preoccupied by *Paromia* Westwood, 1851, Trans. Entomol. Soc. Lond. (2)1: 167.
- = *Callicorina* Smart, 1976
 Illust. Encyp. Butterfly World: 274 (appendix), no. 32. Type-species: *Paromia pulchra* Hewitson, 1861, Ill. exot. Butterflies 2(40): [49], pl. Epiphile II & Paromia, figs. 1, 2, as a replacement name. Proposed to replace *Paromia* Hewitson, 1861 (Code Articles 60.3, 67.8).
- *672. Temenis laothoe** (Cramer, 1777)
 Uitl. Kapellen 2 (11): 55, pl. 132, figs. A ♂ D, B ♂ V; (16): 149 (index).
Original
Combination: *Pap[ilio]. Nymph[alis]. Phalera[t]a. Lathoe*
Type Locality: "Surinamen" "Suriname"
Types: Type(s) probably lost.
 Recorded from Texas by Grishin (2005), News Lepid. Soc. 47(1): 3, 10, 6 figs.
- = *†ariadne* (Cramer, 1777)
 Uitl. Kapellen 2(15): 128, pl. 180, figs. E ♂ D, F ♂ V; (16): 147 (index).
Original
Combination: *Pap[ilio]. Nymph[alis]. Phalera[t]a. Ariadne*
Type Locality: "Surinamen" "Suriname"
Types: Type(s) probably lost.
 Preoccupied by *Papilio ariadne* Linnaeus, 1763, in: Johansson, Cent. Ins. Rar. 24, no. 72.
- = *†merione* Fabricius, 1781
 Spec. Ins. 2: 94, no. 411.
Original
Combination: *P[apilio]. N[ymphales] F[estivi]. Merione*
Type Locality: "Surinami"
Types: Location of types not known.
 Preoccupied by *Papilio merione* Cramer, 1777, Uitl. Kapellen 2(12): 76, pl. 144, figs. G, H; (16): 149 (index).
- = *†agatha* (Fabricius, 1787)
 Mant. Ins. 2: 54, no. 530.
Original
Combination: *P[apilio]. N[ymphalis]. P[haleratus] Agatha*
Type Locality: "Indiis"
Types: Location of type(s) not known.
 Preoccupied by *Papilio agatha* Stoll, 1780, Uitl. Kapellen 4(28): 76, pl. 327, figs. A, B; (24): 173 (index).
- = *violetta* Fruhstorfer, 1907
 Stettiner Entomol. Ztg. 68(2): 229, pl 1, fig. 5 ♂ D.
Original Combination: *Temenis laothoe violetta*
Type Locality: "Rio Waupes" [Colombia]
Types: Holotype in BMNH, figured by Neild (1996), Butterflies of Venezuela 1: pl. 13, fig. 584 ♂ V.
- = *pseudolaothoe* Fruhstorfer, 1907
 Stettiner Entomol. Ztg. 68(2): 230.
Original Combination: [*Temenis*] *laothoe pseudolaothoe*

Type Locality: "Obidos" [Pará, Brazil]

Types: Syntype(s) in BMNH.

- = ‡"pseudariadne" Fruhstorfer, 1907
Stettiner Entomol. Ztg. 68(2): 229.

Original Combination: [*Temenis laothoe pseudolaothoe*] forma *pseudoariadne*

Type Locality: "Obidos" [Pará, Brazil]

Types: "Syntypes" in BMNH.

- = ‡"ottonis" Fruhstorfer, 1907
Stettiner Entomol. Ztg. 68(2): 231.

Original Combination: [*Temenis laothoe laothoe*] ♀
forma *ottonis*

Type Locality: "Surinam"

Types: "Syntypes" in BMNH.

Proposed to replace *Papilio merione* Fabricius, 1781, Spec. Ins. 2: 94, no. 411, but proposed as a quadrinomial.

- = ‡"creta" A. Hall, 1919
Entomol. 52(676): 198.

Original Combination: *Temenis laothoe* f. *creta*

Type Locality: "St. Jean du Maroni, French Guiana"

Types: "Holotype" in BMNH.

- = ‡"goesi" Fassl, 1922
Entomol. Z. 36(10): 38.

Original Combination: *Temenis laothoe goesi* ♂

Type Locality: "Viktoria und Alta-Mira...Rio Xingu" [Pará, Brazil]

Types: Type(s) in NHMB.

- a. ***Temenis laothoe hondurensis*** Fruhstorfer, 1907
Stettiner Entomol. Ztg. 68(2): 229-230.

Original Combination: [*Temenis*] *laothoe hondurensis*

Type Locality: "Honduras"

Types: Syntypes in BMNH.

- = ‡*liberia* Fabricius, 1793
Entomol. Syst. 3(1): 135, no. 418; cited Jones' Icones 5: pl. 15, fig. 1; figured by Donovan (1800), Epit. Ins. India: pl. [29], fig. 4 (a copy from Jones' Icones).

Original

Combination: *P[apilio]. M[ymphales]. Liberia*

Type Locality: "Indiis"

Types: Location of types not known.

Preoccupied by *Papilio liberia* Cramer, 1779, Uitl. Kapellen 3(18): 31, pl. 210, figs. G, H; (24): 175 (index).

- = *columbiana* Fruhstorfer, 1907
Stettiner Entomol. Ztg. 68(2): 230.

Original Combination: [*Temenis*] *laothoe columbiana*

Type Locality: "Columbien"

Types: Syntypes in BMNH, one figured by Neild (1996), Butterflies of Venezuela 1: pl. 13, fig. 578 ♂ D.

Genus **Epiphile** E. Doubleday, [1845]

List Spec. Lepid. Brit. Mus. 1: 90. Type-species: *Temenis oreia* Hübner, [1823], Samml. exot. Schmett. 2: pl. [30], figs. 1, 2 (not 3, 4), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 165, no. 389.

- = ‡*Epiphile* Boisduval, 1870
 Consid. Lepid. Guat.: 40. Type-species: *Epiphile epicaste* Hewitson, 1857, Ill. exot. Butterflies 2: [47], pl. Epiphile, figs. 3, 4, by designation of Hemming (1943), Proc. R. Entomol. Soc. Lond. (B) 12: 27. Preoccupied by *Epiphile* E. Doubleday, [1845], List Spec. Lepid. Brit. Mus. 1: 90.

673. Epiphile adrasta Hewitson, 1861

a. Epiphile adrasta adrasta Hewitson, 1861

Ill. exot. Butterflies 2(40): [50], pl. Epiphile II & Paromia, figs. 9 ♂ D, 10 ♀ D, 11 ♂ V.

Original Combination: *Epiphile Adrasta*

Type Locality: "México"

Types: Syntype (#Rh9365) in BMNH; figured by Jenkins (1986), Bull. Allyn Mus. (101): 27, figs. 54 ♂ D, 55 ♂ V.

Tribe Eubagini Burmeister, 1878

Descr. phys. Rép. Argentine 5(Lépid.)(1): 169 (as "Eubagidae"). Type-genus: *Eubagis* Boisduval, 1832, in: d'Urville, Voy. Astrolabe 1(Lep): 70.

Genus Dynamine Hübner, [1819]

Verz. bekannt. Schmett. (3): 41. Type-species: *Papilio mylitta* Cramer, 1779, Uitl. Kapellen 3(22): 107, pl. 253, figs. D, E; (24): 175 (index) (= *Papilio postverta* Cramer, 1779, Uitl. Kapellen 3(22): 109, pl. 254, f. C, D; (24): 176 (index); synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 160, no. 361.

- = *Sironia* Hübner, 1823
 Zutr. Samml. exot. Schmett. 2: 31. Type-species: *Sironia tithia* Hübner, 1823, Zutr. Samml. exot. Schmett. 2: pl. [68], figs. 391, 392; 31, no. 196, by monotypy.
- = *Eubagis* Boisduval, 1832
 In: d'Urville, Voy. Astrolabe 1(Lep): 70. Type-species: *Papilio athemon* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 157, by monotypy.
- = *Arisba* E. Doubleday, 1847
 List Spec. Lepid. Brit. Mus. 2: 11. Type-species: *Papilio agacles* Dalman, 1823, Analecta Entomol.: 47, no. 19, by monotypy.

674. Dynamine postverta (Cramer, 1779)

Uitl. Kapellen 3(22): 109, pl. 254, f. C, D; (24): 176 (index).

Original

Combination: *Pap[ilio]. Nymph[alis]. Gemm[ata]. Postverta*

Type Locality: "Surinamen" "Suriname"

Types: Type(s) probably lost.

As first reviser, precedence was given to *postverta* over *mylitta* by Godart, [1824], Ency. méth. 9(Ins.)(2): 419, no. 218.

= *mylitta* (Cramer, 1779)

Uitl. Kapellen 3(22): 107-108, pl. 253, figs. D, E; (24): 175 (index).

Original

Combination: *Pap[ilio]. Nymph[alis]. Gemm[ata]. Mylitta*

Type Locality: "Surinamen" "Suriname"

- Types:** Type(s) probably lost.
 = *thoenii* Anken, 1998
 Facetta 1(15): 30, fig.
Original Combination: *Dynamine mylitta thoenii*
Type Locality: "Brazil, Minas Gerais, Pote"
Types: Holotype in Anken collection.
 = ‡"uniocellata" Bryk, 1953
 Ark. Zool. (ns)5(1): 108-109, no. 241.
Original Combination: *Dynamine mylitta* fa. *uniocellata*
Type Locality: "Bahia, Iguassú" [Brazil]
Types: "Holotype" in NHRS.
- a. ***Dynamine postverta mexicana*** d'Almeida, 1952
 Bol. Mus. Nac. (Zool.) (Rio de Janeiro) 114: 1, fig, 2 ♂ V (holotype).
Original Combination: *Dynamine mylitta mexicana*
Type Locality: "de Presidio, México" [Veracruz]
Types: Holotype in UFPC.
 = ‡"bipupillata" Röber, 1915
 In: Seitz, Grossschmett. Erde 5 5 (230): 507.
Original Combination: [*Dynamine mylitta*] ab. *bipupillata*
Type Locality: Not stated; listed as "[Honduras]" by Lamas *et al.* (2004), Atl. Neotrop. Lepid. Chcklst. Part 4A: 241.
Types: Location of type(s) not known.
675. ***Dynamine dyonis*** Geyer, 1837
 In: Hübner, Zutr. Samml. exot. Schmett. 5: pl. [150], figs. 871 ♂ D, 872 ♂ V [1833]; 19, no. 436 (1837, name given).
Original Combination: *Dynamine Dyonis*
Type Locality: "Mexico"
Types: Type(s) probably lost.

Subfamily Cyrestinae Guenée, 1865

In: Vinson, Voy. Madagascar, Annexe F: 28 (as "Cyrestidae"). Type-genus: *Cyrestis* Boisduval, 1832, in: d'Urville, Voy. Astrolabe 1(Lep): 117.

Tribe Cyrestini Guenée, 1865

Genus *Marpesia* Hübner, 1818

Zutr. Samml. exot. Schmett. 1: 32. Type-species: *Marpesia eleuthea* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: pl. [35], figs. 197, 198; 32, no. 99, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 212, no. 659.

- = *Athena* Hübner, [1819]
 Verz. bekannt. Schmett. (3): 36. Type-species: *Papilio "thetis"* (= *thetys*) Fabricius, 1777, Gen. Ins.: 264 (= *Papilio petreus* Cramer, 1776, Uitl. Kapellen 1(8): 138, pl. 87, figs. D, E; (8): 154 (index); homonym), by monotypy.
 = *Euglyphus* Billberg, 1820
 Enum. Ins. Mus. Billb.: 80. Type-species: *Papilio chiron* Fabricius, 1775, Syst. Entomol.: 452, no. 40, by monotypy.
 = *Marius* Swainson, 1830
 Zool. Illustr. (2)1(9): pl. 45, unnumbered text. Type-species: *Papilio marius* Cramer, 1779, Uitl. Kapellen 3(17): 14, pl. 200, figs. D, E; (24): 175 (index) (= *Papilio chiron* Fabricius,

- 1775, Syst. Entomol.: 452, no. 40; synonym), by original designation.
- = ‡*Petreus* Swainson, 1833
Zool. Illustr. (2)3(24): pl. 110, unnumbered text. Type-species: *Papilio thetys* Fabricius, 1777, Gen. Ins.: 264 (= *Papilio petreus* Cramer, 1776, Utitl. Kapellen 1(8): 138, pl. 87, figs. D, E; (8): 154 (index); homonym), by monotypy. A junior objective synonym of *Athena*.
- = *Megalura* Blanchard, 1840
In: Castelnau, Hist. Nat. Ins. 3: 446. Type-species: *Nymphalis coresia* Godart, [1824], *in*: Ency. méth. 9(Ins.)(2): 359, no. 31 (= *Marpesia zerynthia* Hübner, [1823], Samml. exot. Schmett. 2: pl. [51], figs. 1 ♂ D, 2 ♂ V; synonym), by original designation.
- = *Tymetes* Doyère, [1840]
In: Cuvier, Règne Animal. (3rd ed) Ins. 2(10): pl. 139, fig. 1. Type-species: *Tymetes merops* Doyère, [1840], *in*: Cuvier, Règne Animal. (3rd ed) Ins. 2(10): pl. 139, fig. 1, by monotypy. This name was spelled "Timetes" by Scudder (1875), Bull. Buffalo Soc. Nat. Sci. 2(4): 237, 356, no. 37; an unjustified emendation.
- = ‡*Timetes* E. Doubleday, [1845]
List Spec. Lepid. Brit. Mus. 1: 87. Type-species: *Nymphalis coresia* Godart, [1824], *in*: Ency. méth. 9(Ins.)(2): 359 (= *Marpesia zerynthia* Hübner, [1823], Samml. exot. Schmett. 2: pl. [51], figs. 1 ♂ D, 2 ♂ V; synonym), by designation of Hemming (1933), Entomol. 66(845): 223. A junior objective synonym of *Megalura*.
- = ‡*Timetes* Boisduval, 1870
Consid. Lépid. Guat.: 44. Type-species: *Papilio marius* Cramer, 1779, Utitl. Kapellen 3(17): 14, pl. 200, figs. D, F; (24): 175 (index) (= *Papilio chiron* Fabricius, 1775, Syst. Entomol.: 452, no. 40; synonym), by designation of Hemming (1939), Proc. R. Entomol. Soc. Lond. (B)8(7): 135. Preoccupied by *Timetes* E. Doubleday, 1845.
- = ‡*Eumargareta* Grote, 1898
Can. Entomol. 30(9): 201, 202. Type-species: *Nymphalis coresia* Godart, [1824], *in*: Ency. méth. 9(Ins.)(2): 359 (= *Marpesia zerynthia* Hübner, [1823], Samml. exot. Schmett. 2: pl. [51], figs. 1 ♂ D, 2 ♂ V; synonym), as a replacement name. Proposed to replace *Megalura* Blanchard, 1840, erroneously thought preoccupied; a junior objective synonym of *Megalura*.
- *676. *Marpesia zerynthia* Hübner, [1823]**
Samml. exot. Schmett. 2: pl. [51], figs. 1 ♂ D, 2 ♂ V.
Original Combination: *Marpesia Zerynthia*
Type Locality: Not stated; defined as "Mexico, Amer. Med. Et Centr." by W. F. Kirby (1908), *in*: P. Wytsman, Fac. ed. Hübner Samml. exot. Schmett. 3(addit. notes): 34.
Types: Type(s) probably lost.
- = *coresia* (Godart, [1824])
In: Ency. méth. 9(Ins.)(2): 359, no. 31.
Original Combination: *Nymphalis Coresia*
Type Locality: "Brasil"
Types: Holotype may be in USNM or MNHP.
- = *sylla* (Perty, 1833)
Delect. Anim. art. Bras. (3): 151, pl. 29, figs. 2, 2b.
Original Combination: *Papilio Sylla*
Type Locality: "Brasil" implied from the title of the work.

Types: Location of type(s) not known.

- a. **Marpesia zerynthia dentigera** (Fruhstorfer, 1907)
Stettiner Entomol. Ztg. 68(2): 238; cited Staudinger (1886), *in*: Staudinger & Schatz, Exot. Schmett. 1(1)(14): 134; (2)(9/10): pl. 45, bottom row, last, and W. Holland (1898), Butterfly Book: pl. 21, figs. 1 ♂ D, 2 ♂ V.

Original Combination: [*Megalura coresia*] *dentigera*

Type Locality: "Colombien...Peru...Texas (Holland)"

Types: Syntypes in BMNH; one figured by Neild (1996), Butterflies of Venezuela 1: pl. 18, figs. 794 ♂ V, ♀ D.

Neild (1996), Butterflies of Venezuela 1: 93, considered this species to be monotypic.

677. **Marpesia chiron** (Fabricius, 1775)

Syst. Entomol.: 452, no. 40; cited Daubenton [1765], Miscellanea: pl. 71, figs. 2, 3.

Original Combination: *P[apilio] E[ques]. A[chivus]. Chiron*

Type Locality: "India"; suggested to be "Jamaica" by F.

Brown (1972), *in*: F. Brown and Heineman, Jamaica Butterflies: 135-136.

Types: Lectotype in ZMUC, designated by Wetherbee (1991), Two Cent. Expl. Hispaniola Butterflies: 18.

This was spelled "chironias" by Hübner [1819], Verz.

bekannt. Schmett. (3): 47, representing either an unjustified emendation or an attempt to replace *chiron*.

The synonymy below follows Smith *et al.* (1994), Butterflies W. Ind. & Fla.: 71.

= *marius* (Cramer, 1779)

Uitl. Kapellen 3(17): 14, pl. 200, figs. D ♂ D, E ♂ V; (24): 175 (index).

Original

Combination: *Pap[ilio]. Eq[uites]. Achiv[i]. Marius*

Type Locality: "Surinamen" "Suriname"

Types: Type(s) probably lost.

= *chironides* (Staudinger, 1886)

In: Staudinger & Schatz, Exot. Schmett. 1(1)(14): 134.

Original Combination: *M[egalura]. Chironides*

Type Locality: "Cuba"

Types: Type(s) probably in ZMHB.

= *insularis* (Fruhstorfer, 1907)

Stettiner Entomol. Ztg. 68(2): 237; cited *Papilio marius* (*sensu* Stoll (1790), Anhangs. Uitl. Kapellen: pl. 30, figs. 1, 1a).

Original Combination: [*Megalura chiron* Form] *insularis*

Type Locality: "Jamaica" implied from the citation to Stoll

Types: Proposed for the figures in Stoll; type(s) probably lost.

= *cyclops* Fabricius, 1938

In: Bryk, Syst. Glossat.: 45, no. 94.

Original Combination: *P[apilio]. A[chivus]. Cyclops*

Type Locality: "Amboina"; suggested to be "Hispaniola" by F. Brown (1988), Trans. Am. Entomol. Soc. 113(4): 436.

Types: Location of type(s) not known.

‡"axayacatl" (Arias, 1968)

Exp. cient. españ. siglo XVIII, Exp. Bot. Nueva España: 394.

Original Combination: *Papilio axayacatl*

Proposed without a description or indication;
a *nomen nudum*.

- 678. *Marpesia petreus* (Cramer, 1776)**
a. *Marpesia petreus petreus* (Cramer, 1776)
 Uitl. Kapellen 1(8): 138, pl. 87, figs. C ♂ D, D ♂ V; (8): 154 (index).
Original
Combination: *Pap[ilio]. Eq[ui]tes]. Achiv[il]. Petreus*
Type Locality: "Surinamen" "Suriname"
Types: Syntypes in the BMNH.
 As indicated by Lamas *et al.* (2004), Atl. Neotrop. Lepid. Chcklst. Part 4A: 235, and Llorente *et al.* (2004), J. Lepid. Soc. 58 (4): 217, northern populations of this species currently lack a trinomial.
- 679. *Marpesia eleuthea* Hübner, 1818**
a. *Marpesia eleuthea eleuthea* Hübner, 1818
 Zutr. Samml. exot. Schmett. 1: 32, no. 99 (1818), pl. [35], figs. 197 ♀ D, 198 ♀ V [1818]; figured by Hübner [1823], Samml. Exot. Schmett. 2: pl. [50], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Marpesia Eleuthea*
Type Locality: "der Insel Cuba, von Habana"
Types: Type(s) probably lost.
 Anderson (1974), J. Lepid. Soc. 28(4): 357, reported this species from Sugarloaf Key, Monroe County, Florida.

Subfamily **Nymphalinae** Rafinesque, 1815

Tribe **Coeini** Scudder, 1893

Proc. Am. Acad. Arts Sci., Boston 27: 243 (as "Coenini"). Type-genus: *Coea* Hübner, [1819], Verz. bekannt. Schmett. (3): 48.

Genus **Historis** Hübner, [1819]

Verz. bekannt. Schmett. (3): 35. Type-species: *Papilio odius* Fabricius, 1775, Syst. Entomol.: 457, no. 60, by designation of W. Barnes and Benjamin (1926), Bull. South. Calif. Acad. Sci. 25(1): 16.

- = *Coea* Hübner, [1819]
 Verz. bekannt. Schmett. (3): 48. Type-species: *Papilio acheronta* Fabricius, 1775, Syst. Entomol.: 501-502, no. 249, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 144, no. 273.
- = *Aganisthos* Boisduval & Le Conte, [1835]
 Hist. Lepid. Amér. sept. (22): 194. Type-species: *Papilio orion* Fabricius, 1775, Syst. Entomol.: 485, no. 185 (= *Papilio odius* Fabricius, 1775, Syst. Entomol.: 457, no. 60; homonym), by monotypy.
- = *Megistanis* E. Doubleday, [1845]
 List Spec. Lepid. Brit. Mus. 1: 109. Type-species: *Papilio cadmus* Cramer, 1775, Uitl. Kapellen 1(2): 33, pl. 22, figs. A, B; (8): 152 (index) (= *Papilio acheronta* Fabricius, 1775, Syst. Entomol.: 501-502, no. 249; subspecies), by monotypy.
- = ‡*Megistanis* Boisduval, 1870
 Consid. Lépid. Guat.: 53. Type-species: *Papilio pherecydes* Stoll, 1780, Uitl. Kapellen 4(28): 80, pl. 330, figs. A, B; (34): 251 (index) (= *Papilio acheronta* Fabricius, 1775, Syst. Entomol.: 501-502, no. 249; synonym), by monotypy.
 Preoccupied by *Megistanis* E. Doubleday, [1845].

- 680. *Historis odius* (Fabricius, 1775)**

- a. **Historis odius odius** (Fabricius, 1775)
Syst. Entomol.: 457, no. 60.
Original
Combination: *P[apilio]. E[ques]. A[chivus]. Odius*
Type Locality: "Indiis"
Types: Type(s) probably lost.
= *✚orion* (Fabricius, 1775)
Syst. Entomol.: 485, no. 185.
Original Combination: *Papilio*
D[anaus] F[estivus]. Orion
Type Locality: "Surinami"
Types: Syntypes in HMUG and ZMUC.
Preoccupied by *Papilio orion* Pallas, 1771, Reise
verschied. Prov. Russisch. Reichs 1, Anhang:
471-472, no. 65.
- b. **Historis odius dious** Lamas, 1995
Revta. Peru. Entomol. 37: 65, no. 15.
Original Combination: *Historis odius dious*
Proposed as a replacement name for *Papilio*
danae Cramer, 1775, preoccupied, with the same data
(Code Article 60.3).
= *✚danae* (Cramer, 1775)
Uitl. Kapellen 1(7): 131-132, pl. 84, figs. A ♂ D,
B ♂ V; (8): 152 (index).
Original
Combination: *Pap[ilio]. Nymph[alis]. Phalera[a]*
. Danae
Type Locality: "Surinamen" "Suriname"
Types: Lectotype in BMNH, designated by
Lamas (1995), Revta. Peru. Entomol. 37: 66.
Preoccupied by *Papilio danae* Hufnagel, 1766,
Berl. Mag. 2: 82, no. 50.
681. **Historis acheronta** (Fabricius, 1775)
- a. **Historis acheronta acheronta** (Fabricius, 1775)
Syst. Entomol.: 501-502, no. 249.
Original
Combination: *P[apilio]. N[ymphalis]. P[halerata]. Acheron*
ta
Type Locality: "Brasilia"
Types: Syntype in BMNH.
= *pherecydes* (Stoll, 1780)
Uitl. Kapellen 4(28): 80, pl. 330, figs. A ♂ D, B ♂ V;
(34): 251 (index).
Original Combination: *Papilio*
E[ques]. A[chiv]. Pherecydes
Type Locality: "Surinamen" "Suriname"
Types: Type(s) probably lost.

Tribe **Nymphalini** Rafinesque, 1815

Genus **Smyrna** Hübner, [1823]

Samml. exot. Schmett. 2: pl. [65]. Type-species: *Papilio blomfildia* Fabricius, 1781, Spec. Ins. 2: 84, by monotypy.

- *682. **Smyrna blomfildia** (Fabricius, 1781)
Spec. Ins. 2: 84, no. 370.

Original

Combination: *P[apilio]. M[ymphales]. G[emmati] Blomfildia*

Type Locality: "Brasilia"

Types: Syntype probably lost.

= *proserpina* (Fabricius, 1793)

Entomol. Syst. 3(1): 228, no. 713; cited Jones' Icones 5, pl. 24, fig. 1.

Original Combination: *P[apilio]. S[atyr]. Proserpina*

Type Locality: Not stated.

Types: Syntype in BMNH.

= *pluto* (Westwood, 1851)

In: Gen. diurn. Lepid. 2(44): 392, no. 54.

Original Combination: *Satyrus Pluto*

Type Locality: Not stated.

Types: Syntype(s) possibly in BMNH.

a. **Smyrna blomfildia datis** Fruhstorfer, 1908

Int. Entomol. Z. 1(42): 319.

Original Combination: *Smyrna blomfildia datis*

Type Locality: "West-Mexiko"

Types: Syntypes possibly in BMNH.

Genus Hypanartia Hübner, [1821]

Samml. exot. Schmett. 2: pl. [26]. Type-species: *Hypanartia demonica* Hübner, [1821], Samml. exot. Schmett. 2: pl. [26], figs. 1, 2 (not 3, 4) (= *Papilio lethe* Fabricius, 1793, Entomol. Syst. 3(1): 80, no. 250; synonym), by monotypy.

= ‡*Eurema* E. Doubleday, [1845]

List Spec. Lepid. Brit. Mus. 1: 83. Type-species: *Papilio lethe* Fabricius, 1793, Entomol. Syst. 3(1): 80. Preoccupied by *Eurema* Hübner, [1819], Verz. bekannt. Schmett. (6): 96.

‡"*Heurema*" Herrich-Schäffer, 1865

Corresp.-Bl. zool.-min. Ver. Regensburg 19(6): 89. Herrich-Schäffer mistakenly thought that Agassiz (1847), Nomencl. Zool. (4to ed.)(12)(index universalis): 181, had emended E. Doubleday's *Eurema*, but Agassiz actually emended (unjustifiably) Hübner's *Eurema*.

‡"*Hybristis*" Hübner, 1937

In: Hemming, Hübner 2: 129. Type-species: *Vanessa zabulina* Godart, 1819, Enc. Méth 9(1): (293), 301, no. 13. Proposed without a description; a *nomen nudum*.

683. **Hypanartia lethe** (Fabricius, 1793)

Entomol. Syst. 3(1): 80, no. 250; cited Jones' Icones 5: pl. 18, fig. 2; figured by Donovan (1800), Epit. Ins. India: pl. [23], fig. 1 (a copy from Jones' Icones).

Original Combination: *P[apilio]. M[ymphales]. Lethe*

Type Locality: "Indiis"

Types: Syntype(s) possibly in MAMU.

= *demonica* Hübner, [1821]

Samml. exot. Schmett. 2: pl. [26], figs. 1 ♂ D, 2 ♂ V (not 3, 4).

Original Combination: *Hypanartia Demonica*

Type Locality: Not stated; listed as "Amer. mer. et centr." by W. F. Kirby (1908), in: P. Wytzman, Facsimile ed. Hübner Samml. exot. Schmett. 3(addit. notes): 20.

Types: Lectotype is the specimen represented by plate [26], figs. 1 ♂ D, 2 ♂ V, designated by Hemming (1964), Annot. Lepid. (3): 98, and is probably lost.



Genus **Vanessa** [Fabricius], 1807

In: Illiger, Mag. f. Insektenk. 6: 281, no. 12. Type-species: *Papilio atalanta* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 478, no. 119, by designation of Latreille (1810), Consid. gén Anim. Crust. Arach. Ins.: 440, 354. I.C.Z.N. *Opinion* 156 placed *Vanessa* on the *Official List of Generic Names in Zoology* as name no. 601. This name was spelled "Phanessa" by Sodoffsky (1837), Bull. Soc. Imp. Nat. Moscou 10(6): 80, no. 4; an unjustified emendation.

- = ‡*Nymphalis* Latreille, 1804
Nouv. Dict. Hist. Nat. 24(tab): 184, no. 468, 199. Type species: *Papilio atalanta* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 478, no. 119, by monotypy. Preoccupied by *Nymphalis* Kluk, 1780, Zvierz. Hist. Nat. Pocz. Gospod. 4: 86. Wagener (1995), *in*: Hesselbarth *et al.*, Tagf. Türk (2): 1008, claimed that the species *Papilio morio* Retzius, 1783, Gen. Spec. Ins.: 31, no. 9, the other of the two species included in the genus by Latreille, was indeed validly described. This name is a homonym and need not be considered further.
- = *Cynthia* [Fabricius], 1807
In: Illiger, Mag. f. Insektenk. 6: 281, no. 11. Type-species: *Papilio cardui* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 475, no. 107, by designation of Westwood (1840), Intro. Class. Ins. 2: 87. I.C.Z.N. *Direction* 4 placed *Cynthia* on the *Official List of Generic Names in Zoology* as name no. 805. I.C.Z.N. *Opinion* 156 gave *Vanessa* precedence over *Cynthia*. The validity of this name as a genus-level taxon is questionable, as demonstrated by occasional hybridization between taxa placed by W. D. Field (1971), Smithsonian Contrib. Zool. (84):1-105, *in* *Vanessa* and *Cynthia* (e.g., Dimock (1973), J. Lepid. Soc. 27(4): 278).
- = ‡*Pyrameis* Hübner, [1819]
Verz. bekannt. Schmett. (3): 33. Type-species: *Papilio atalanta* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 478, no. 119, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 260, no. 924. A junior objective synonym of *Vanessa*.
- = ‡*Ammiralis* Rennie, 1832
Conspectus Butterflies Moths: 10. Type-species: *Papilio atalanta* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 478, no. 119, by monotypy. A junior objective synonym of *Vanessa*.
- = ‡*Neopyrameis* Scudder, 1889
Butterflies E. U. S. & Can. 1(3): 434. Type-species: *Papilio cardui* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 475, no. 107, by monotypy. A junior objective synonym of *Cynthia*.
- = ‡*Fieldia* Niculescu, 1979
Revue vérviet. Hist. Nat. 36(1-3): 3. Type-species: *Hamadryas carye* Hübner, [1812] (as *Vanessa carye*), Samml. exot. Schmett. 1: pl. [45], figs. 1, 2, by original designation. Preoccupied by *Fieldia* Walcott, 1912, Smithsonian Misc. Coll. 57(6): 188.
- = *Neofieldia* Özdikmen, 2008
Munis Ent. Zool. 3(1): 321. Type-species: *Hamadryas carye* Hübner, [1812] (as *Vanessa carye*), Samml. exot. Schmett. 1: pl. [45], figs. 1, 2, as a replacement name. Proposed to replace *Fieldia* Niculescu, 1979, preoccupied (Code Articles 60.3, 67.8).

684. ***Vanessa virginienensis*** (Drury, 1773)

Illustr. Nat. Hist. 1: 10-11, pl. 5, fig. 1 ♂ D, 1a ♂ V (1770); 2: index (1773, name given).

Original Combination: *Papilio Cardui Virginiensis*

Type Locality: "New York, Maryland, and Virginia"; defined as "Virginia" on the basis of its name by W. D. Field (1971), Smithsonian Contrib. Zool. (84): 49.

Types: Syntypes possibly in MAMU or lost.

= *huntera* (Fabricius, 1775)

Syst. Entomol.: 499, no. 240.

Original

Combination: *P[apilio]. N[ymphalis]. G[emmata]. Huntera*

a

Type Locality: "Americae balsamita"

Types: Type(s) apparently lost.

= *iole* (Cramer, 1775)

Uitl. Kapellen 1(1): 17-18, pl. 12, figs. E ♂ D, F ♂ V (as *iole*); (8): 153 (index, as *jole*); cited *Papilio cardui virginiensis* Drury (1773), Illustr. Nat. Hist. 1: pl. 5, fig. 1, 1a.

Original

Combination: *Pap[ilio]. Nymph[alis]. Gemmat[a]. Iole*

Type Locality: "Noord-America, te nieuw-Jork, Virginiën, Maryland en Jamaica" "l'Amerique septentrionale, à la Nouvelle York, à la Jamaïque"

Types: Type(s) probably lost.

= *fulvia* (Dodge, 1900)

Can. Entomol. 32(3): 92.

Original Combination: *Pyrameis huntera* var. *fulvia*

Type Locality: Not stated; holotype from "Louisiana, Pike County, Missouri."

Types: Location of holotype not known; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 42, fig. 9 ♂ D, from "Louisiana, Mo."

= *gnaphalii* (Fabricius, 1938)

In: Bryk, Syst. Glossat.: 102, no. 63; cited *Papilio cardui virginiensis* Drury (1773), Illustr. Nat. Hist. 1: pl. 5, fig. 1, 1a, Cramer (1775), Uitl. Kapellen 1(1): pl. 12, figs. E, F, pl. 5, fig. 1, and J. E. Smith (1797), *in:* Smith & Abbot, Ins. Georgia 1: pl. 9.

Original Combination: *C[ynthia]. Gnaphalii*

Proposed as a replacement name for *Papilio cardui virginiensis*, based on a larval foodplant illustrated by Smith and Abbot; a junior objective synonym of *virginiensis*.

= *ahwashtee* C. Fox, 1921

Psyche 28(2): 45-46, pl. 2, figs. 1 ♂ D, 2 ♂ V ("holotype").

Original Combination: *Vanessa virginiensis* var. *ahwashtee*

Type Locality: "Golden Gate Park, San Francisco, California" [San Francisco County]

Types: "Holotype" in CAS; figured by Gunder (1927), Entomol. News 38(9): pl. 8, middle row, fig. 3 ♂ V.

The text clearly indicates that this taxon was described as an individual variant.

= *massachusettensis* Gunder, 1925

Entomol. News 36(7): 198, no. 10, pl. 5, fig. 10 ♂ D ("holotype").

Original Combination: *Vanessa virginiensis* ab. ♂ *massachusettsensis*

Type Locality: "Southampton, Massachusetts" [Hampshire County]

Types: "Holotype" in AMNH; figured in J. A. Comstock (1927), Butterflies Calif.: pl. 43, fig. 5 ♂ D. = ♀ "simmsi" (Gunder, 1927)

Entomol. News 38(5): 133-134, no. 2, pl. 2, fig. 2 ♀ D ("holotype").

Original Combination: *Cynthia virginiensis simmsi* ♀ nov. tr. form

Type Locality: "Montreal, Canada" [Quebec]

Types: "Holotype" in BMNH; also figured by Gunder (1927), Entomol. News 38(9): pl. 8, upper half, fig. 4 ♀ V.

685. ***Vanessa cardui*** (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 475, no. 107; cited Linnaeus (1764), Fauna Svecica (ed. 1): 235-236, no. 778, among others.

Original Combination: *P[apilio]. N[ymphalis] gemmatus*] *Cardui*

Type Locality: "Europae, Africae"; defined as "Sweden" by W. D. Field (1971), Smithsonian Contrib. Zool. (84): 43, based on Linnaeus' reference to Fauna Svecica.

Types: Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 308.

I C.Z.N *Direction 4* placed this name on the *Official List of Specific Names in zoology* as name no. 259. Palaearctic infrasubspecific names are omitted from this synonymy.

= *belladonna* Godart, [1821]

Hist. Nat. Lépid. Fr. 1: 102-104, pl. 14, fig. 2.

Original Combination: *Papilio Bella-Donna*

Type Locality: "Environs de Paris" from the title of the volume [France]

Types: Holotype possibly in MNHP.

= *elymi* Rambur, 1829

Annls. Sci. Obser. 2(2): 256-257, pl. 5, figs. 1 ♂ D, 2 ♂ V (holotype).

Original Combination: *Vanessa Elymi*

Type Locality: "les bords de la Méditerranée, aux environs de Montpellier" [France]

Types: Holotype possibly in MNHP or lost.

= ♀ "ate" (Strecker, 1878)

Butterflies & Moths N. Am., Comp. Syn. Cat.: 137, no. 272b.

Original Combination: *Pyrameis Cardui*] ab. b. *Ate*

Type Locality: "Summit Co., Ohio"

Types: "Holotype" in FMNH; figured by Gunder (1927), Entomol. News 38(9): pl. 9, upper right, D&V.

= ♀ "minor" (Cockerell, 1890)

Can. Entomol. 22(3): 57.

Original Combination: *Pyrameis cardui* form *minor*

Type Locality: "Near Micawber Mine" [Custer County, Colorado]

Types: "Holotype" in BMNH.

= ♀ "jacksoni" (A. Clark, 1932)

Bull. U. S. Nat. Mus. (157): 88-89, pl. 8, figs. 2 ♀ D, 3 ♀ V.

Original Combination: [*Pyrameis cardui*]

form *jacksoni*

Type Locality: "District of Columbia"; figure is from "Essex, Mass." [Essex County, Massachusetts]

Types: No types specifically mentioned.

Earlier A. Clark (1927), Ann. Assoc. Am. Geogr.

17(3): 127, mentioned this name as "*Cynthia cardui jacksoni*" with a "type locality" of "New England, California, Mongolia, France, etc." Although a line of description was given, that name is here considered a *nomen nudum*.

686. **Vanessa annabella** (W. D. Field, 1971)

Smithsonian Contrib. Zool. (84): 56-59, fig. 16 ♂ genitalia, fig. 32 ♀ genitalia, figs. 143 ♂ V, 144 ♂ D (holotype); 145 ♂ V, 146 ♂ D, 147 ♂ V, 148 ♂ D, 155 ♀ V, 156 ♀ D, 157 ♀ V, 158 ♀ D, 159 ♀ V, 160 ♀ D.

Original Combination: *Cynthia annabella*

Type Locality: "First valley W of Arroyo Verde Park, Ventura, Ventura Co., California"

Types: Holotype (#71044) in USNM.

Shapiro and Geiger (1989), J. Lepid. Soc. 43(2): 81-92, demonstrated that *V. annabella* and *V. carye* Hübner, [1812], Samml. exot. Schmett. 1: pl. [45], figs. 1 ♂ D, 2 ♂ V, are both species-level taxa.

= ‡"muelleri" (Letcher, 1898)

Entomol. News 9(2): 38, pl. 3, lower ♀ ("holotype").

Original Combination: *Pyrameis carye* n.

var. *muelleri*

Type Locality: "San Francisco, California" implied from the text. [San Francisco County]

Types: Location of holotype not known (may have been in CAS); figured by Gunder (1927), Entomol. News 38(9): pl. 9, lower, fig. 3 ♀ D&V.

The text clearly indicates that this taxon was described as an individual variant.

= ‡"intermedia" F. Grinnell, 1918

Psyche 25(5): 111-112, pl. 4, fig. 6.

Original Combination: *Vanessa*

carye var. *intermedia*

Type Locality: "Berkeley...San Francisco" [California]

Types: Location of "type(s)" not known; "holotype" from San Francisco figured by J. A. Comstock (1927), Butterflies Calif.: pl. 44, 4 ♀ D.

The text clearly indicates that this taxon was described as an individual variant.

= ‡"letcheri" F. Grinnell, 1918

Psyche 25(5): 112-113, pl. 4, fig. 8 ♂ D.

Original Combination: *Vanessa carye* var. *letcheri*

Type Locality: "Castella, Shasta Co....Berkeley...Los Angeles...18th Street Square, San Francisco...Oakland" [California]

Types: Location of "syntypes" not known; "holotype" from "Castella, Shasta Co., Cal.", figured by J. A. Comstock (1927), Butterflies Calif.: pl. 44, fig. 7 ♂ D.

The text clearly indicates that this taxon was described as an individual variant.

- = ‡"nivos" (Gunder, 1927)
Bull. South. Calif. Acad. Sci. 26(2): 53.
Original Combination: *Cynthia carye* nov. tr.
f. *nivos*
Type Locality: "San Francisco" [San Francisco
County, California]
Types: "Holotype" in AMNH.
- = ‡"schraderi" (Gunder, 1929)
Pan-Pac. Entomol. 6(1): 9, pl. 17, ♂ D&V
(“holotype”), 2 ♀♀ D&V.
Original Combination: *Cynthia carye* tr. f. *schraderi*
Type Locality: "Los Angeles, California" [Los
Angeles County]
Types: "Holotype" in AMNH.
- *687. **Vanessa atalanta** (Linnaeus, 1758)
Syst. Nat. (ed. 10) 1: 478, no. 119; cited Linnaeus (1764),
Fauna Svecica (ed. 1): 235, no. 777, among others.
Original Combination: *P[apilio]. Mymphalis*
phaleratus]. *Atalanta*
Type Locality: not stated "in Urtica"; defined as "Sweden" by
W. D. Field (1971), Smithsonian Contrib. Zool. (84): 15,
based on Linnaeus' reference to Fauna Svecica.
Types: Lectotype in LSUK, designated by Honey and Scoble
(2001), Zool. J. Linn. Soc. 132(3): 302.
I.C.Z.N. *Direction 4* placed this name on the *Official List of*
Specific Names in Zoology as name no. 258.
- = *amiralis* Retzius, 1783
Gen. Spec. Ins.: 31, no. 10; cited de Geer (1752), Mém.
Hist. Ins.1(1): pl. 22, figs. 1-5, and *Papilio*
atalanta Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 478, no.
119.
Original Combination: *P[apilio]. Amiralis*
Type Locality: Not stated.
Types: Type(s) probably lost.
- a. **Vanessa atalanta rubria** (Fruhstorfer, 1909)
Int. Entomol. Z. 3(17): 94.
Original Combination: *Pyrameis atalanta rubria*
Type Locality: "Mexiko, Nord-Amerika"; defined as
"Mexico" by W. D. Field (1971), Smithsonian Contrib.
Zool. (84): 16-17.
Types: Lectotype in MNHP, designated by W. D. Field
(1971), *ibid.*
- = ‡"edwardsi" F. Grinnell, 1918
Psyche 25(5): 113-114, pl. 4, fig. 3.
Original Combination: *Vanessa*
atalanta var. *edwardsi*
Type Locality: "Lagunitas, Marin
Co....Buchanan and Washington Streets, San
Francisco" [California]
Types: Location of "syntypes" not known;
"holotype" from "San Francisco" figured by J. A.
Comstock (1927), Butterflies Calif.: pl. 43, fig. 4
♂ D, and Gunder (1927), Entomol. News 38(9):
pl. 8, lower right, fig. 2 ♂ D&V.
The text clearly indicates that this taxon was
described as an individual variant.
- 688. **Vanessa tameamea** Escholtz, 1821

In: Kotzebue, Endeck. Reise Süd-See 3 (appendix 5): 207, pl. [5], figs. 8a ♂ D, 8b ♂ V.

Original Combination: *Vanessa Tameamea*

Type Locality: "Wahu, einer der Sandwichinseln" [Oahu, Honolulu County, Hawaii]

Types: Location of type(s) not known.

This name was spelled "tammeamea" by Escholtz on plate 5. As first reviser, Kirkaldy (1906), Entomol. 39(517): 238-239, chose the spelling as that given in the text (Code Article 24.2.3).

= *cordelia* (E. Doubleday, 1847)

In: Gen. diurn. Lepid. (1)(14): pl. 25, fig. 3 ♀(?) D; (24): 204, (1849, as a synonym of *Pyrameis tammeamea*).

Original Combination: *Pyrameis Cordelia*

Type Locality: "Sandwich Islands" [Hawaii]

Types: Syntype in BMNH.

Genus *Aglais* Dalman, 1816

K. svenska VetenskAkad. Handl. 37(1): 56. Type-species: *Papilio urticae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 477, no. 114, by original designation.

= ‡*Hamadryas* Hübner, [1806]

Tentamen: [1]. Type-species: *Papilio io* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 472, no. 88, by monotypy. The Tentamen was suppressed by I.C.Z.N. *Opinion* 97.

I.C.Z.N. *Opinion* 278 placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 82.

= *Inachis* Hübner, [1819]

Verz. bekannt. Schmett. (3): 37. Type-species: *Papilio io* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 472, no. 88, by monotypy. Wahlberg and Nylin (2003), Cladistics 19(3): 216, 218, 221, 222, and Wahlberg *et al.* (2005), Biol. J. Linn. Soc. 86(2): 238, 250, determined this synonymy.

= *Ichnusa* Reuss, 1939

Entomol. Z. 53(1): 3. Type-species: *Papilio ichnusa* Bonelli, 1826, Memor. Accad. Sci., Torino 30: 174, 186, no. 1, pl. 2, fig. 2 (= *Papilio ichnusa* Hübner, [1824], Samml. europ. Schmett. 1: pl. 170, fig. 840).

689. *Aglais milberti* (Godart, 1819)

a. *Aglais milberti viola* dos Passos, 1938

Can. Entomol. 70(4): 73, pl. 4, fig. 5 ♂ D (holotype), 6 ♀ D.

Original Combination: [*Aglais milberti*] *viola*

Type Locality: "Doyles Station, Newfoundland" [Newfoundland and Labrador]

Types: Holotype in AMNH.

b. *Aglais milberti milberti* (Godart, 1819)

Ency. méth. 9(Ins.)(1): (293), 307-308, no. 25; figured by Boisduval and Le Conte [1835], Hist. Lépid. Amér. sept. (17): pl. 50, figs. 3 ♂ D, 4 ♂ V.

Original Combination: *Vanessa Milberti*

Type Locality: "Etats Unis d'Amerique"; defined as "neighborhood of Philadelphia, Pa." by dos Passos (1938), Can. Entomol. 70(4): 72. [Pennsylvania]

Types: Holotype in USNM; figured by dos Passos (1938), Can. Entomol. 70(4): pl. 4, fig. 1 ♂ D.

- = *furcillata* (Say, 1825)
Am. Entomol. 2: pl. 27, 2 unnumbered pages.
Original Combination: *Vanessa Furcillata*
Type Locality: "North-West Territory...vicinity of Fort William, an establishment of the Hudson Bay Fur Company" [Ontario]
Types: Type(s) apparently lost.
- = ‡"rothkei" Gunder, 1927
Can. Entomol. 59(12): 286, no. 18, pl. B, figs. 18 ♂ D, 18b ♂ V ("holotype").
Original Combination: *Aglais milberti* tr. f. *rothkei*
Type Locality: "Scranton, Pa." [Lackawanna County, Pennsylvania]
Types: "Holotype" in AMNH.
- c. ***Aglais milberti subpallida*** (Cockerell, 1889)
Entomol. 22(314): 85.
Original Combination: [*Vanessa milberti*] var. *subpallida*
Type Locality: "West Cliff" [Westcliffe, Custer County, Colorado]
Types: Holotype (#8683) in BMNH; figured by dos Passos (1938), Can. Entomol. 70(4): pl. 4, fig. 3 ♂ D.
- d. ***Aglais milberti pullum*** (Austin, 1998)
Syst. W. N. Am. Butterflies (46): 578, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V.
Original Combination: *Nymphalis milberti pullum*
Type Locality: "Arizona: Apache County; White Mountains, Ditch Camp"
Types: Holotype in MGCL.

Genus *Nymphalis* Kluk, 1780

Zwierz. Hist. Nat. Pocz. Gospod. 4: 86-89, no. 148. Type-species: *Papilio polychloros* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 477, no. 113, by designation of Hemming (1933), Entomol. 66(845): 223. I.C.Z.N. Opinion 278 placed this name on the *Official List of Generic Names in Zoology* as name no. 702.

- = ‡*Scudderia* Grote, 1873
Can. Entomol. 5(8): 144. Type-species: *Papilio antiopa* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 476-477, no. 112, by monotypy. Preoccupied by *Scudderia* Stål, 1873, Öfvers. K. VetenskAkad. Förh. 30: 41.
- = *Euvanessa* Scudder, 1889
Butterflies E. U. S. & Can. 1(3): 387. Type-species: *Papilio antiopa* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 476-477, no. 112, as a replacement name. Proposed to replace *Scudderia* Grote, 1873, preoccupied (Code Articles 60.3, 67.8).
- = *Roddia* Korshunov, 1995
In: Korshunov & Gorbunov, Butterflies Asiatic Russia: 81-82. Type-species: *Papilio l-album* Esper, 1781, Die Schmett. 1(2)(2): pl. 62 (cont. 12), figs. 3a, 3b; (3): 69-71, by original designation. Wahlberg and Nylin (2003), Cladistics 19(3): 221-222, and Wahlberg et al. (2005), Biol. J. Linn. Soc. 86(2): 235, 238, 250, determined this synonymy.
- = ‡*Antiopana* Korb, 2005
Cat. Butterflies ex USSR: 72. Type-species: *Papilio antiopa* Linnaeus, 1758, by original designation. A junior objective synonym of *Euvanessa*

***690. *Nymphalis l-album* (Esper, 1781)**

Die Schmett. 1(2)(2): pl. 62 (Cont. 12), figs. 3a ♂ D&V, 3b ♀ D&V; (3): 69-71; cited *Papilio vau album* [Denis & Schiffermüller] (1775), Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 176, no. 7.

Original Combination: *P[apilio]. Nymph[alis]. Pha[erata]. l-album*

Type Locality: "Ungarn und Oesterreich"; fig. 3 is from "der Gegend von Wien" [Vienna, Austria]

Types: Location of type(s) not known, probably lost.

= ‡"vaualbum" ([Denis & Schiffermüller], 1775) (emended)

Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 176, no. 7.

Original Combination: *P[apilio]. Vau album*

Type Locality: "Wienergegend" implied from the title of the work. [Vienna, Austria]

Types: Type(s) probably lost.

Gillham (1956), *Psyche* 63(1): 28, suggested that this name is a *nomen nudum*, and Koçak (1981), *Priamus* 1(2): 77, note 73, determined the same. Koçak (1986), *Priamus* 4(1/2): 24, no. 618, further demonstrated that this name, as proposed by [Denis & Schiffermüller], was not accompanied by a description, definition or indication, and stated that *Papilio l-album* Esper, 1780, is the oldest available name for this taxon (also see Kudrna (1986), *Butterflies Europ.* 8, Section 4.5: 168, and Kudrna and Belicek (2005), *Oedippus* 23: 1-32). A petition (Case 3241) has been submitted to the I.C.Z.N. concerning various names from [Denis & Schiffermüller], 1775. In anticipation of a ruling by the I.C.Z.N. on the status of Denis & Schiffermüller's names, *vaualbum* is herein considered unavailable.

= ‡"chelone" Schultz, 1903

Dtsche. Entomol. Z. "Iris" 15(2): 324-325.

Original Combination: *Vanessa l-album* aberr. *chelone*

Type Locality: "Oesterreich"

Types: Location of "type(s)" not known.

a. *Nymphalis l-album j-album* (Boisduval & Le Conte, [1835])

Hist. Lepid. Amér. sept. (17): pl. 50, figs. 1 ♀ D, 2 ♀ V; (21): 185-186.

Original Combination: *V[anessa]. J Album*

Type Locality: "environs de New-York, de Philadelphie et de New-Harmony-Indiana"

Types: Types were the specimens upon which Émile Blanchard based his illustrations, probably from Boisduval's collection, possibly in USNM or MNHP.

= ‡"aureomarginata" (Cockerell, 1889)

Entomol. 22(311): 100; cited an unspecified Maynard reference. This is determined to be Maynard (1886), *Butterflies N. England* (ed. 1): 15, where Maynard described the suppression of the dorsal marginal pattern.

Original Combination: *Grapta j-album aureomarginata*

Type Locality: Not stated, "New England" implied from the title of Maynard's work.

Types: "Holotype" may be in MCZ or lost.

The text clearly indicates that this taxon was described as an individual variant.

‡"pocahontas" Scudder, 1889

Butterflies E. U. S. & Can. 1(3): 379.

Original Combination: [*Eugonia j-album*]

= *Vanessa pocahontas* Harr., manuscript

Proposed in the synonymy of *j-album* without a description or indication; a *nomen nudum*.

b. *Nymphalis l-album watsoni* (G. Hall, 1924)

J. N. Y. Entomol. Soc. 32(2): 109, pl. 11, fig. 1 ♂ V (holotype).

Original Combination: *Aglais j-album watsoni*

Type Locality: "Sicamous, British Columbia"

Types: Holotype in AMNH.

691. *Nymphalis californica* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 306, no. 51.

Original Combination: *Vanessa Californica*

Type Locality: "Californie"; defined as "Queen Lily Campground, near Belden, North Fork Feather River Canyon, 2400' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 18.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 19, figs. 105 ♂ D, 106 ♂ V.

= *herri* W. D. Field, 1936

Entomol. News 47(5): 121-122.

Original Combination: *Nymphalis californica* new race *herri*

Type Locality: "Buckhorn Mountains, Washington" [Okanogan County]

Types: Holotype in USNM.

A. Warren (2005), Butterflies Ore.: 262, determined this synonymy.

692. *Nymphalis antiopa* (Linnaeus, 1758)

a. *Nymphalis antiopa antiopa* (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 476-477, no. 112; cited Linnaeus (1746), Fauna Svecica: 232, no. 772, among others.

Original Combination: *P[apilio]. N[ympalis] phaleratus*] *Antiopa*

Type Locality: "etiam in Americae"; "Sweden" implied from the reference to Fauna Svecica.

Types: Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 297.

= *pompadour* (Pollich, 1781)

Bemerk. Khurfälz, phys.-oekon. Ges. (1779): 258.

Original Combination: *Papilio Pompadour*

Type Locality: "Pfalz"

Types: Type(s) probably lost.

= ‡*morio* (Retzius, 1783)

Gen. Spec. Ins.: 31, no. 9; cited de Geer (1752), Mém. Hist. Ins. 1(1): 305, figs. 1-9, and *Papilio atalanta* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 476-477, no. 112.

Original Combination: *P[apilio]. Morio*

Type Locality: Not stated.

- Types:** Location of types not known.
Preoccupied by *Papilio morio* Scopoli, 1763, Entomol. Carn.: 181-182, no. 464.
- = *lintnerii* (Fitch, 1857)
Trans. N. Y. State Agric. Soc. 16(1856): 485, no. 211.
Original Combination: *Vanessa Lintnerii*
Type Locality: "New York"; probably "Schoharie, Schoharie County" were Lintner lived.
Types: Probably lost; no specimens were mentioned from the NYSM by J. Barnes (1988), Bull. N. Y. State Mus. (461): 112.
- = *thomsonii* (Butler, 1887)
Ann. Mag. Nat. Hist. (5)19(110): 104.
Original Combination: *Vanessa Thomsonii*
Type Locality: "British Honduras?"
Types: Holotype in BMNH.
- = *hyperborea* (Seitz, 1913)
In: Seitz, Grossschmett. Erde 5(189): 457, pl. 93f, fig. [1] ♀ D.
Original Combination: *Vanessa antiopa* var. *hyperborea*
Type Locality: "allerhöchsten Norden, in Alaska"
Types: Location of holotype not known, possibly in SMNS.
Shapiro (1981), J. Lepid. Soc. 35(2): 124-131, considered this a subspecies-level taxon, while Layberry, *et al.* (1998), Butterflies Can.: 203, treated this as a synonym of *N. a. antiopa*.
- = *borealis* (Wnukowsky, 1927)
Mitt. Münchn. Entomol. Ges. 17(7-12): 69, no. 2.
Original Combination: *Vanessa (Euvanessa) antiopa borealis*
Type Locality: "Siberia septentrionalis-orientalis (Jakutsk)" [Sakha Autonomous Republic, Russia]
Types: Syntypes in UTR.
- = ‡"hygiaea" (Heydenreich, 1851)
Lepid. Europ. Cat. Meth. (Edit. 3): 7; cited *Papilio antiopa* (*sensu* Hübner [1836], Samml. europ. Schmett. 1: fig. 993, *sensu* Herbst (1794), in: Jablonsky, Natursyst. Ins., Schmett. 7: pl. 168, figs, 1, 2, *sensu* Esper (1777) Die Schmett. 1(1)(5): pl. 29, fig. 2, and *sensu* Freyer [1835], Neuer Beitr. Schmett. 2(25): pl. 145).
Original Combination: *Vanessa [Antiopa] ab. Hygiaea*
Type Locality: Not stated.
Types: Possible "syntype(s)" in NMW and ZSMC.
This name was mentioned by Heydenreich (1846), Verz. europ. Schmett. (ed. 2): 1 (as *Vanessa antiopa* v[ar]. *hygiaea*), without a description or indication; a *nomen nudum*.
- = ‡"betulae" (Fabricius, 1938)
In: Bryk, Syst. Glossat.: 111, no. 2; cited *Papilio antiopa* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 476-477, no. 112.



- Original Combination:** *V[anessa]. Betulae*
Proposed as a replacement name for *Papilio antiopa* Linnaeus, 1758, based on a larval foodplant; a junior objective synonym of *antiopa*.
- = *‡bibla* (Fabricius, 1938)
In: Bryk, Syst. Glossat.: 111, no. 3.
Original Combination: *V[anessa]. Bibla*
Type Locality: "Pennsylvania"
Types: Location of type(s) not known.
- = *‡"obscura"* (Cockerell, 1890)
Entomol. Rec. & J. Var. 1(1): 14; cited the description of a specimen by Bunker (1876), Can. Entomol. 8(12): 240.
Original Combination: *Vanessa antiopa* [= var *obscura*]
Type Locality: "near Rochester, in New York State" [Monroe County]
Types: Location of "holotype" not known.
The text clearly indicates that this taxon was described as an individual variant.
- = *‡"hippolyta"* (Lyman, 1898)
Can. Entomol. 30(3): 49, pl. 4, fig. 6 ♀ D ("holotype").
Original Combination: [*Vanessa Antiopa*] ab. *Hippolyta*
Type Locality: "Boundary Creek, B. C." [British Columbia]
Types: "Holotype" in LEMQ.
- = *‡"grandis"* (Ehrmann, 1900)
Can. Entomol. 32(11): 348.
Original Combination: *Vanessa antiopa*, Var. *grandis* ♀, nov. var.
Type Locality: "S. W. Penn'a." [Pennsylvania]
Types: "Holotype" in CMNH; figured by W. Holland (1927), Ann. Carnegie Mus. 17(2): pl. 25, fig. 5 ♀ D
The text clearly indicates that this taxon was described as an individual variant.

Genus *Polygonia* Hübner, [1819]

Verz. bekannt. Schmett. (3): 36. Type-species: *Papilio c-aureum* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 477, no. 116, by designation of Scudder (1872) 4th Ann. Rept. Peabody Acad. Sci. (1871): 30. The arrangement of *Polygonia* taxa follows Weingartner *et al.* (2006), J. Evol. Biol. 19(2): 483-491.

- = *Eugonia* Hübner, [1819]
Verz. bekannt. Schmett. (3): 36-37. Type-species: *Papilio angelica* Stoll, 1782, Utitl. Kapellen 4(33): 204, pl. 388, figs. G, H; (34): 247 (index) (= *Papilio c-aureum* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 477, no. 116; synonym), by designation of Grote (1873), Can. Entomol. 5(8): 144.
- = *Comma* Rennie, 1832
Conspectus Butterflies Moths: 8. Type-species: *Papilio c-album* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 477, no. 115, by monotypy.
- = *Grapta* W. Kirby, 1837
In: Richardson, Fauna Bor.-Am. [4]: 292. Type-species: *Vanessa (Grapta) c-argenteum* W. Kirby, 1837, *in:* Richardson, Fauna Bor.-Am. [4]: 292, pl. 3, figs. 6, 7 (= *Papilio progne* Cramer,

- 1775, Uitl. Kapellen 1(1): 9, pl. 5, figs. E, F; (8): 154 (index); synonym), by monotypy.
 = *Kaniska* Moore, [1899]
 Lepid. Ind. 4(41): 91-92. Type-species: *Papilio canace* Linnaeus, 1763, *in*: Johansson, Cent. Ins. Rar.: 23-24, no. 68, by original designation. Wahlberg and Nylin (2003), Cladistics 19(3): 221-222, and Wahlberg *et al.* (2005), Biol. J. Linn. Soc. 86(2): 250, determined this synonymy.
- 693. *Polygonia interrogationis* (Fabricius, 1798)**
 Entomol. Syst. Suppl.: 424.
Original Combination: *P[apilio]. N[ymphalis] Interrogationis*
Type Locality: "America boreali"
Types: Syntypes in ZMUC.
 = *umbrosa* (Lintner, 1869)
 Trans. Am. Entomol. Soc. 2(4): 313-316.
Original Combination: *Grapta umbrosa*
Type Locality: "Schoharie" [Schoharie County, New York]
Types: Syntypes may be in NYSM.
 = *crameri* (Scudder, 1870)
 Proc. Boston Soc. Nat. Hist. 13: 276; cited *Papilio c-aurem sensu* Cramer (1775), Uitl. Kapellen 1(2): pl. 19, figs. E, F, and *sensu* J. E. Smith (1797), *in*: Smith & Abbot, Ins. Georgia 1: pl. 11.
Original Combination: *G[rapta]. Crameri*
Type Locality: Not stated; Cramer listed "Jamaïca" "Jamaïque" in error; "Georgia" implied from the Smith and Abbot citation.
Types: Type(s) should be in MCZ.
 = *fabricii* (W. H. Edwards, 1870)
 Trans. Am. Entomol. Soc. 3(1): 5-7; figured by W. H. Edwards [1872], Butterflies N. Am. 1(9): pl. Grapta 5, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *G[rapta]. Fabricii*
Type Locality: "West Virginia"; defined as "[Coalburgh,] West Virginia" by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 323. [Kanawha County]
Types: Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 325, fig. 1 ♂ D&V.
 = *tiliae* (Fabricius, 1938)
In: Bryk, Syst. Glossat.: 90, no. 8; cited *Papilio interrogationis* Fabricius, 1798, Entomol. Syst. Suppl.: 424.
Original Combination: *C[ynthia]. Tiliae*
 Proposed as a replacement name for *Papilio interrogationis* Fabricius, 1798, based on a larval foodplant illustrated by Smith and Abbot; a junior objective synonym of *interrogationis*.
- 694. *Polygonia comma* (T. Harris, 1841)**
 Rep. Ins. Mass.: 221.
Original Combination: *Vanessa Comma*
Type Locality: "Massachusetts" implied from the title of the book; suggested to be "vicinity of Milton, Massachusetts" by Calhoun (2009), J. Lepid. Soc. 63(3): 160. [Norfolk County]

Types: Lectotype (#26345) in MCZ, designated by Calhoun (2009), J. Lepid. Soc. 63(3): 160, figs. 3, ♂ D&V, 4 label.

= *dryas* (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(1): 10, 17-18, no. 10; figured by W. H. Edwards (1871), Butterflies N. Am. 1(8): pl.

Grapta 3, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Grapta Dryas*

Type Locality: "Coalburgh, W. Va." [Kanawha County, West Virginia]

Types: Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 327, fig. 2 ♂ D&V.

This name was employed by W. H. Edwards (1870), Trans. Am. Entomol. Soc. 3(1): 7, without a description or indication; a *nomen nudum*.

= ‡"harrisii" (W. H. Edwards, 1873)

Can. Entomol. 5(10): 185; figured by W. H. Edwards (1871), Butterflies N. Am. 1(8): pl. Grapta 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V (as *Grapta comma*).

Original Combination: [*Grapta*] *comma* var. *Harrisii*

Type Locality: "Coalburgh" [Kanawha County, West Virginia]

Types: Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 329, fig. 3 ♂ D&V.

The text clearly indicates that this taxon was described as an individual variant.

‡"umbrosa" Scott, 1984

J. Res. Lepid. 23(3): 208.

Original Combination: *Polygonia comma* summer form *umbrosa*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

695. **Polygonia satyrus** (W. H. Edwards, 1869)

a. **Polygonia satyrus satyrus** (W. H. Edwards, 1869)

Trans. Am. Entomol. Soc. 2(4): 374-375; figured by W. H. Edwards (1872), Butterflies N. Am. 1(10): pl. Grapta 6, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Grapta Satyrus*

Type Locality: "Rocky Mountains, Colorado"; defined as "vicinity of Empire, Clear Creek Co., Colorado" by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 330-331.

Types: Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 331, fig. 4 ♂ D&V.

= *chrysoptera* W. G. Wright, 1905

Butterflies W. Coast: 56, no. 222; 172, no. 222, pl. 22, figs. 222 ♂ D (lectotype), 222b ♀ D, 222c ♂ V.

Original

Combination: [*Grapta*] *Chrysoptera*; *Grapta Chrysoptera* n. s.

Type Locality: "California" "Lake County, Cal....Mendocino County, Cal."

Types: Lectotype (#4311) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 25.

b. **Polygonia satyrus neomarsyas** dos Passos, 1969

Trans. Am. Entomol. Soc. 95(1): 155-158, figs. 1 ♂ D&V (holotype), 2 ♀ D&V.

Original Combination: *Polygonia satyrus neomarsyas*

Type Locality: "Salmon Meadows, Brewster, Washington" [Okanogan County]

Types: Holotype in CMNH.

= *transcanada* Scott & Kondla, 2006

Papilio (n.s.) 12: 38, pl. 4, 6th row right ♂ D&V (holotype).

Original Combination: *Polygonia satyrus transcanada*

Type Locality: "Temiscouata Co. Quebec"

Types: Holotype in BMNH.

= ‡"hollandi" Gunder, 1927

Bull. South. Calif. Acad. Sci. 26(2): 53; cited W. H. Edwards (1879), Butterflies N. Am. 2(8): pl. Grapta 3, figs. 5 ♀ D, 6 ♀ V.

Original Combination: *Polygonia satyrus marsayas* nov. tr. f. *hollandi*

Type Locality: Not stated; "Navarro, Cal.", implied by W. H. Edwards (1879), Butterflies N. Am. 2(8): [196].

Types: Holotype probably in CMNH, if it can be recognized. This name was proposed for figures 5 and 6 by W. H. Edwards (1879), *ibid*.

696. **Polygonia progne** (Cramer, 1775)

Uitl. Kapellen 1(1): 9, pl. 5, figs. E ♂ D, F ♂ V; (8): 154 (index).

Original

Combination: *Pap[ilio]. Nymph[alis]. Phalera[a]. Progne*

Type Locality: "Jamaica, envalt ook in Nieuw-Jork"

"Jamaïque & à Nouvelle-York" [New York]

Types: Type(s) probably lost.

= *c-argenteum* (W. Kirby, 1837)

In: Richardson, Fauna Bor.-Am. [4]: 292, no. 1, pl. 3, figs. 6 ♀ D, 7 ♀ V.

Original Combination: *Vanessa (Grapta) C. argenteum*

Type Locality: "Lat. 54"; suggested to be "(Cumberland House?)" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 171.

Types: Holotype possibly in BMNH.

= ‡"martineae" Coleman, 1919

Entomol. News 30(4): 112-113, fig. ♀ D.

Original Combination: *Polygonia progne* ab. nov. *martineae*

Type Locality: "probably captured in Connecticut"

Types: "Holotype" (#5500) in PMNH.

‡"l-argenteum" Scudder, 1875

Bull. Buffalo Soc. Nat. Sci. 2(4): 253, no. 79.

Original Combination: [*Polygonia Progne*] [form] *l-argenteum*

Proposed in the synonymy of *progne* without a description or indication; a *nomen nudum*.

‡"umbrosa" Scott, 1984

J. Res. Lepid. 23(3): 208.

Original Combination: *Polygonia progne* summer form *umbrosa*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

697. **Polygonia oreas** (W. H. Edwards, 1869)

- a. **Polygonia oreas oreas** (W. H. Edwards, 1869)
Trans. Am. Entomol. Soc. 2(4): 373.
Original Combination: *Grapta Oreas*
Type Locality: "California"; suggested to be "mountains of northern California" by dos Passos and F. Brown (1967), *in*: F. Brown, Trans. Am. Entomol. Soc. 93(3): 354-355.
Types: Neotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 354-355, fig. 10 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 59, fig. 27 ♂ V.
 - b. **Polygonia oreas silenus** (W. H. Edwards, 1870)
Trans. Am. Entomol. Soc. 3(1): 10, 15, no. 7; figured by W. H. Edwards (1875), Butterflies N. Am. 2(2): pl. Grapta 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Grapta Silenus*
Type Locality: "Oregon"; neotype from "Portland, Multnomah County, Oregon."
Types: Neotype in AMNH, designated by dos Passos and F. Brown (1967) *in*: F. Brown, Trans. Am. Entomol. Soc. 93(3): 358, fig. 11 ♀ D&V.
 - c. **Polygonia oreas threatfuli** C. Guppy & J. Shepard, 2001
Butterflies B. C.: 254-255, figs, ♀ D&V (holotype).
Original Combination: *Polygonia oreas threatfuli*
Type Locality: "BC, Vernon, Kalamalka L. Prov. Park" [British Columbia]
Types: Holotype in BCPM.
 - d. **Polygonia oreas satellow** Scott, 2006
Papilio (n.s.) 12: 39, pl. 4, 6th row left ♂ D&V (holotype), pl. 5, 3rd row right ♀ D&V.
Original Combination: *Polygonia oreas satellow*
Type Locality: "8 mi. NE Cedaredge, 7500', Delta Co. Colo., rearing lot W" [Colorado]
Types: Holotype in BMNH.
 - e. **Polygonia oreas nigrozephyrus** Scott, 1984
J. Res. Lepid. 23(3): 201-202, fig. 1, first row ♂♂, second row ♂♂ (last right holotype), 3rd row ♀♀, 4th row ♀♀, 5th row ♀♀, fig. 2 all the same V.
Original Combination: *Polygonia progne nigrozephyrus*
Type Locality: "Lump Gulch, Gilpin Co., Colorado"
Types: Holotype in UCMC.
698. **Polygonia gracilis** (Grote & Robinson, 1867)
- a. **Polygonia gracilis gracilis** (Grote & Robinson, 1867)
Ann. N. Y. Lyc. Nat. Hist. 8: 432-433.
Original Combination: *Grapta gracilis*
Type Locality: "Atlantic District (Mount Washington, N. H.!)" [Coos County, New Hampshire]
Types: Syntypes may be in NYSM or AMNH.
 - b. **Polygonia gracilis zephyrus** (W. H. Edwards, 1870)
Trans. Am. Entomol. Soc. 3(1): 10, 16, no. 8; figured by W. H. Edwards (1872), Butterflies N. Am. [1](10): pl. Grapta 6, figs. 5 ♂ D, 6 ♂ V, 7 ♀ V.
Original Combination: *Grapta Zephyrus*
Type Locality: "Virginia City...Colorado...Fort Simpson. Mckenzie's River"; defined as "Virginia City, Storey County, Nevada" by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 347-[349].

Types: Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 350, fig. 9 ♂ D&V.

‡"thiodamas" Scudder, 1875

Bull. Buffalo Soc. Nat. Sci. 2(4): 252, no. 75.

Original Combination: [*Polygonia Zephyrus*] (= *thiodamas*)

Proposed in the synonymy of *zephyrus* without a description or indication; a *nomen nudum*.

699. ***Polygonia faunus*** (W. H. Edwards, 1862)

a. ***Polygonia faunus smythi*** A. Clark, 1937

Proc. U. S. Nat. Mus. 84(3013): 219, pl. 10, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5 ♂ D, 6 ♂ V.

Original Combination: *Polygonia faunus smythi*

Type Locality: "Mount Rogers (Balsam Mountain), Grayson County, Va., about 4,000 feet"

Types: Holotype (#51846) in USNM; figured by A. Clark and L. Clark (1951), Smithsonian Misc. Coll. 116(7): frtspc., figs. 3 ♂ D, 6 ♂ V, pl. 5, figs. a ♂ D, b ♂ V.

b. ***Polygonia faunus faunus*** (W. H. Edwards, 1862)

Proc. Acad. Nat. Sci. Philad. 14(5): 221, 222-223, no. 2; figured in W. H. Edwards (1870), Butterflies N. Am. 1(5): pl. Grapta 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Grapta Faunus*

Type Locality: "Catskill Mountains, New York...Fort Simpson, at Albany River...Lake Winnipeg"; defined as "Hunter, Greene Co., New York" by dos Passos (1967), in: F. Brown, Trans. Am. Entomol. Soc. 93(3): 336.

Types: Lectotype in CMNH, designated by dos Passos and F. Brown, in: F. Brown, 1967, Trans. Am. Entomol. Soc. 93(3): 338, fig. 5 ♂ D&V.

‡"virescens" Scudder, 1875

Bull. Buffalo Soc. Nat. Sci. 2(4): 252, no. 76.

Original Combination: [*Polygonia Faunus*] (= *virescens*)

This name was mentioned in the synonymy of *faunus* without a description or indication; a *nomen nudum*.

c. ***Polygonia faunus arcticus*** Leussler, 1935

Bull. Brooklyn Entomol. Soc. 30(2): 56-57, no. 32.

Original Combination: *Polygonia faunus* race *arcticus*

Type Locality: "base of Black Mountain, near Aklavik, N.W. Terr." [Northwest Territories]

Types: Holotype in OSU.

Genus-species gender conformation is *arctica*.

= *cenveray* Scott & Kondla, 2006

Papilio (n.s.) 12: 40, pl. 4, 6th row center ♂ D&V (holotype).

Original Combination: *Polygonia faunus cenveray*

Type Locality: "Halfmoon Park, Crazy Mts., Sweet Grass Co. Mont." [Montana]

Types: Holotype in BMNH.

d. ***Polygonia faunus rusticus*** (W. H. Edwards, 1874)

Trans. Am. Entomol. Soc. 5(2): 107-108; figured by W.

H. Edwards (1879), Butterflies N. Am. 2(8): pl. Grapta 3, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Grapta Rusticus*

Type Locality: “Big Trees, California, and on Vancouver’s Island”; defined as “Big Trees, California”, by dos Passos (1967), *in*: F. Brown, Trans. Am. Entomol. Soc. 93(3): 341. [Calaveras County]

Types: Lectotype in AMNH, designated by dos Passos and F. Brown (1967), *in*: F. Brown, Trans. Am. Entomol. Soc. 93(3): 343-344, fig. 7 ♂ D&V.

= *silvius* (W. H. Edwards, 1874)
Trans. Am. Entomol. Soc. 5(2): 108-109.

Original Combination: *Grapta Silvius*

Type Locality: “California”; defined as “Yosemite Valley, Yosemite Natl. Park, California” by dos Passos (1967), *in*: F. Brown, Trans. Am. Entomol. Soc. 93(3): 344.

Types: Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 347, fig. 8 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 71, fig. 7 ♂ D.

e. *Polygonia faunus fulvescens* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butterflies (12): 139-140, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Polygonia faunus fulvescens*

Type Locality: “California: San Mateo County; Pescadero Creek, 400' elevation, near Portola State Park”

Types: Holotype in LACM.

f. *Polygonia faunus hylas* (W. H. Edwards, 1872)

Trans. Am. Entomol. Soc. 4(1/2): 61, 68-69, no. 8; figured by W. H. Edwards (1875), Butterflies N. Am. 2(4): pl. Grapta 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Grapta Hylas*

Type Locality: “Colorado”; defined as “near Berthoud Pass, with little doubt on the southern slope” by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 161; listed as “Berthoud Pass, Colorado” by dos Passos (1967), *in*: F. Brown, Trans. Am. Entomol. Soc. 93(3): 339. [Clear Creek (S slope)-Grand counties]

Types: Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 341, fig. 6 ♂ D&V.

= ‡“orpheus” Cross, 1936
Pan-Pac. Entomol. 12(4): 197.

Original Combination: *Polygonia hylas orpheus* n. form

Type Locality: “Deer Creek Canyon, near Denver, Colorado” [Douglas County]

Types: Holotype in DNHC.

The text clearly indicates that this taxon was described as an individual variant.

‡“silvius” Scott, 1984
J. Res. Lepid. 23(3): 209.

Original Combination: *Polygonia faunus hylas* form *silvius*

Proposed as a “form” with no nomenclatural standing; a *nomen nudum*.

Tribe Victorinini Scudder, 1893

Proc. Am. Acad. Arts Sci., Boston 27: 236-237. Type-genus: *Victorina* Blanchard, 1840, in: Castelnau, Hist. Nat. Ins. 3: 447.

Genus *Anartia* Hübner, [1819]

Verz. bekannt. Schmett. (3): 33. Type-species: *Papilio jatrophae* Linnaeus 1763, in: Johansson, Cent. Ins. Rar.: 25, no. 73, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 111, no. 73.

- = *Celoena* Boisduval, 1870
Consid. Lépid. Guat.: 38. Type-species: *Papilio fatima* Fabricius, 1793, Entomol. Syst. 3(1): 81, no. 252, by monotypy.
‡"Celaena" E. Doubleday, 1849
In: Gen. diurn. Lepid. (1)(26): 214. Type-species: *Papilio fatima* Fabricius, 1793, Entomol. Syst. 3(1): 81, no. 252, by designation of Hemming (1941), J. Soc. Bibl. Nat. Hist. 1(11): 425-426. Proposed in synonymy; a *nomen nudum*.
- = *Anartiella* Fruhstorfer, 1907
Int. Entomol. Z. 1(16): 112. Type-species: *Vanessa lytrea* Godart, 1819, in: Enc. méth. 9(Ins.)(1): (291), 299, no. 7, by monotypy.

- *700. *Anartia jatrophae* (Linnaeus, 1763)
In: Johansson, Cent. Ins. Rar.: 15, no. 73; cited Merian (1705), Ins. Surinam.: pl. 4. Often cited as Amoen. acad. 6: 408, no. 73, a later reprint.
Original Combination: *Papilio Jatrophae* N[ymphalis].
Type Locality: "Americas"; defined as "Surinam" by Munroe (1942), Am. Mus. Novit. (1179): 2.
Types: Lectotype in UZIU, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 339.
- = *corona* Gosse, 1880
Entomol. 13(209): 199, pl. 8, fig. 1.
Original Combination: *Anartia corona*
Type Locality: "near Asunción" [Paraguay]
Types: Holotype in BMNH.
- = *pallida* Köhler, 1923
Z. wiss. InsektBiol. 18(12)(Sonderheft): 24, pl. 2, fig. 12.
Original Combination: [*Anartia jatrophae*] var. *pallida*
Type Locality: "Misiones" [Argentina]
Types: Syntype(s) in MLP.
- = ‡"margarita" Oberthür, 1896
Étud. Entomol. 20: 30, pl. 9, fig. 18.
Original Combination: [*Anartia jatrophae*] ab. *margarita*
Type Locality: "Brazil, Bahia"
Types: "Holotype" in BMNH.
- a. *Anartia jatrophae guantanamo* Munroe, 1942
Am. Mus. Novit. (1179): 2.
Original Combination: *Anartia jatrophae guantanamo*
Type Locality: "San Carlos Estate, Guantanamo, Oriente, Cuba"
Types: Holotype in AMNH.
- b. *Anartia jatrophae luteipicta* Fruhstorfer, 1907
Int. Entomol. Z. 1(16): 112.
Original Combination: [*Anartia*] *jatrophae luteipicta*
Type Locality: "Honduras"; defined as "Honduras, Cortés, San Pedro Sula" by Lamas and Small (1992), in: Quintero & Aiello (eds.), Ins. Panama Mesoamer.: 563, list.

- Types:** Syntypes in BMNH.
701. **Anartia fatima** (Fabricius, 1793)
- a. **Anartia fatima fatima** (Fabricius, 1793)
 Entomol. Syst. 3(1): 81, no. 252; cited Jones' Icones 5: pl. 12, fig. 1; figured by Donovan (1800), Erit. Ins. India: pl. [30], fig. 2 (a copy from Jones' Icones).
Original Combination: *P[apilio]. M[ymphales] Fatima*
Type Locality: "Indiis"
Types: Type(s) probably lost.
 As originally proposed, this name is preoccupied by *Papilio fatima* Cramer, 1780, Uitl. Kapellen 3(23): 141-142, pl. 271, fig. A; (24): 174 (index).
 I.C.Z.N. *Opinion* 1339 exempted *fatima* Fabricius, 1793, from application of the Principle of Homonymy (Code Articles 52, 81.2). Some have considered this taxon to be a subspecies of *A. amathea* Linnaeus (1758), Syst. Nat. (ed. 10) 1: 478, no. 118. However, Davies *et al.* (1997), Proc. R. Soc. Lond. (B) Biol. Sci. 264(1383): 845-851, Dasmahapatra *et al.* (2002), Evolution 56(4): 741-753, and Blum *et al.* (2003), Mol. Phylogen. Evol. 26(1): 46-55, determined that *A. fatima* and *A. amathea* are both species-level taxa.
- = *venusta* Fruhstorfer, 1907
 Int. Entomol. Z. 1(16): 111.
Original Combination: [*Anartia*] *fatima* form *venusta*
Type Locality: "Mexiko...Guatemala"
Types: Syntypes may be in BMNH or MNHP.
- = *moreno* Kruck, 1931
 Entomol. Rdsch. 48(22): 234-235, fig. 1 ♂ D.
Original Combination: *Anartia moreno*
Type Locality: "Meimat, Mexiko-Süd, Dep. Oaxaca"
Types: Syntypes in Kruck collection; R. Fox (1942), Reading Pub. Mus. & Art Gallery, Sci. Pubs. No. 4: 18-19, pl. 1, figured one of two specimens cited in the original description, from "San Christobal, Dep't Chiapas, Mex."
- = ‡"albifasciata" Hoffmann, 1940
 An. Inst. Biol. Univ. Méx. 11(1): 281, no. 2.
Original Combination: *Anartia fatima* forma *albifasciata*
Type Locality: "las regiones húmedas...Mexico"
Types: "Syntypes" in AMNH.
- = ‡"albifusa" Hoffmann, 1940
 An. Inst. Biol. Univ. Méx. 11(1): 281-282, fig. 6 ♀ D, 7 ♀ V ("holotype").
Original Combination: *Anartia fatima* ab. *albifusa*
Type Locality: "Tierra Blanca, lugar situado en la tierra caliente del Estado de Veracruz" [Mexico]
Types: "Holotype" in AMNH.
- = ‡"oscurata" R. de la Maza, 1976
 Revta. Soc. Méx. Lepid. 2(2): 103; figured by R. de la Maza (1987), Marip. Méx.: pl. 3, fig. 9 ♂ D.
Original Combination: *Anartia fatima* ab. *oscurata*

Type Locality: "Cerro El Vigia, Veracruz, Mexico"

Types: Location of "holotype" not known.

‡"kuhlweini" Geyer, 1833

In: Hübner, Zutr. Samml. exot. Schmett. 4: 6, cited unpublished Zutr. Samml. exot. Schmett. 5: figs. 813, 814, wherein *Anartia fatima* was employed.

Original Combination: *Anartia Kuhlweini*

Proposed without a description or indication; a nomen nudum.

702. *Anartia chrysopelea* Hübner, [1831]

Zutr. Samml. exot. Schmett. 3: pl. [95], figs. 547 ♀ D, 548 ♀ V [1824]; 34, no. 274 ([1831], name given).

Original Combination: *Anartia Chrysopelea*

Type Locality: "Cuba"; defined as "Cuba, La Habana" by Silberglied *et al.* (1979), *Psyche* 86(2/3): 228.

Types: Type(s) probably lost.

Recorded from Key West, Monroe County, Florida, by Anderson (1974), *J. Lepid. Soc.* 28(4): 356, fig. 3.

= *eurytis* Fruhstorfer, 1907

Int. Entomol. Z. 1(16): 112.

Original Combination: [*Anartiella*] *lytrea eurytis*

Type Locality: Not stated; suggested to be "Haiti?, Puerto Rico(?)" by Silberglied *et al.* (1979), *Psyche* 86(2/3): 228.

Types: Holotype may be in BMNH or MNHP.

Genus *Siproeta* Hübner, [1823]

Samml. exot. Schmett. 2: pl. [48]. Type-species: *Siproeta trayja* Hübner, [1823], Samml. exot.

Schmett. 2: pl. [48], figs. 1, 2, by monotypy.

= *Victorina* Blanchard, 1840

In: Castelnau, *Hist. Nat. Ins.* 3: 447. Type-species: *Papilio stelenes* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1: 465, no. 39, by original designation.

= *Amphirene* E. Doubleday, 1845

List Spec. Lepid. Brit. Mus. 1: 86. Type-species: *Vanessa epaphus* Latreille, 1813, in: Humboldt & Bonpland, *Voy. Rég. Équinox*, Part 2 (Observ. Zool.) 2(9); 74-75, no. 119, pl. 35, figs. 3, 4, by designation of Scudder (1875), *Proc. Am. Acad. Arts Sci.*, Boston 10(2): 110.

= ‡*Amphirene* Boisduval, 1870

Consid. Lépid. Guat.: 43. Type-species: *Vanessa epaphus* Latreille, 1813, in: Humboldt & Bonpland, *Voy. Rég. Équinox*, Part 2 (Observ. Zool.) 2(9); 74-75, no. 119, pl. 35, figs. 3, 4, by monotypy. Preoccupied by *Amphirene* E. Doubleday, 1845, List Spec. Lepid. Brit. Mus. 1: 86.

= ‡*Aphnaea* Capronnier, 1881

Annls. Soc. Entomol. Belg. 25: 101. Type-species: *Papilio stelenes* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1: 465, no. 39, by monotypy. A junior objective synonym of *Victorina*.

***703. *Siproeta stelenes* (Linnaeus, 1758)**

Syst. Nat. (ed. 10) 1: 465, no. 39; cited Petiver (1703), *Gazophylacium*: pl. 13, fig. 1 (as "*Papilio Jamaicansis*"), Merian (1705), *Ins. Surinam.*: pl. 2 (in error, actually *Philaethria dido* Linnaeus (1763), *Cent. Ins. Rar.*: 25,

no. 74), and Sloane (1725), Voy. Isl. Mad. Barb. Nieves, St. Christ. Jam. 2: 217, pl. 239. figs. 9, 10; figured by Clerck [1764], Icon. Ins. 2: pl. 35, fig. 2 ♂ D&V.

Original Combination: *P[apilio]. E[ques Achivus] Stelenes*

Type Locality: "America"; defined as "Jamaica" by W. Comstock (1944), Sci. Surv. Puerto Rico & Virgin Is. 12(4): 458, and R. Fox and A. Forbes (1971), Ann. Carnegie Mus. 43(8): 238.

Types: Lectotype in BMNH, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 382.

= *jason* (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 485-486, no. 171.

Original Combination: *P[apilio]. B[arbarus]. Jason*

Type Locality: "Indiis"

Types: Location of type(s) not known.

As indicated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 339, and Lamas *et al.* (2004), Atl. Neotrop. Lepid. Chcklst. Part 4A: 252, this name may best be treated as a *nomen dubium*. Its position in this synonymy is tentative.

= *lavinia* (Fabricius, 1775)

Syst. Entomol.: 450, no. 32.

Original

Combination: *P[apilio]. E[ques]. A[chivus]. Lavinia*

Type Locality: "America"; defined as "St. Croix, Virgin I. W. I." by R. Fox and A. Forbes (1971), Ann. Carnegie Mus. 43(8): 238. [U. S. Virgin Islands]

Types: Location of type(s) not known.

= *†dotata* (Fabricius, 1938)

In: Bryk, Syst. Glossat.: 15, no. 7; cited *Papilio lavinia* Fabricius, 1793, Entomol. Syst. 3(1): 22, no. 64, which is the same taxon as *Papilio lavinia* Fabricius, 1775, above.

Original Combination: *U[rania]. Dotata*

Proposed as a replacement name for *Papilio lavinia*, and a junior objective synonym of that name.

a. **Siproeta stelenes biplagiata** (Fruhstorfer, 1907)

Stettiner Entomol. Ztg. 68(1): 13-14.

Original Combination: [*Victorina*] *steneles biplagiata*

Type Locality: "Texas, Honduras, S. Mexico"; lectotype from "San Pedro Sula, Honduras."

Types: Lectotype (#Rh17076) in BMNH, designated by R. Fox and A. Forbes (1971), Ann. Carnegie Mus. 43(8): 236.

= *pallida* (Fruhstorfer, 1909)

Entomol. Z. 23(1): 228, fig. 3.

Original Combination: *Victorina steneles pallida*

Fruhstorfer adopted *Victorina steneles biplagiata* forma *pallida* Fruhstorfer, 1907, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= *†pallida* (Fruhstorfer, 1907)

Stettiner Entomol. Ztg. 68(1): 14.

Original Combination: [*Victorina steneles biplagiata*] forma *pallida*

Type Locality: "S. Mexico"

Types: "Holotype" (#Rh17074) in BMNH.

= *insularis* (W. Holland, 1916)

Ann. Carnegie Mus. 10: 493-494, no. 16.

Original Combination: *Victorina*

steneles var. *insularis*

Type Locality: "Isle of Pines, Cuba" from the title of the paper; lectotype from "Nueva Gerona/Isle of Pines."

Types: Lectotype (#654) in CMNH, designated by F. Brown (1971), in: R. Fox & A. Forbes, Ann. Carnegie Mus. 43(8): 237.

Smith *et al.* (1994), Butterflies W. Ind. & Fla.: 89, determined this synonymy.

= ‡"stygia" (Schaus, 1913)

Proc. Zool. Soc. Lond. 1913(3): 348, pl. 51, fig. 6

♂ D&V ("holotype").

Original Combination: *Victorina*

steneles ab. *stygia*

Type Locality: "Avangarez" [Costa Rica]

Types: Holotype in USNM.

‡"claro" Scott, 1986

Butterflies N. Am.: 274, no. 176.

Original Combination: [*Siproeta steneles*]
form *claro*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

‡"oscuro" Scott, 1986

Butterflies N. Am.: 274, no. 176.

Original Combination: [*Siproeta steneles*]
form *oscuro*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

704. Siproeta epaphus (Latreille, 1813)

a. Siproeta epaphus epaphus (Latreille, 1813)

In: Humboldt & Bonpland, Voy. Rég. Équinox, Part 2 (Obs. Zool.) 2(9): 74-75, no. 119, pl. 35, figs. 3 ♂ D, 4 ♂ V.

Original Combination: *Vanessa Epaphus*

Type Locality: Not stated, suggested to be "Peru" by Lamas *et al.* (2004), Atl. Neotrop. Lepid. Chcklst. Part 4A: 252.

Types: Syntype in MNHP.

Recorded from Dona Ana County, New Mexico by S. Cary and R. Holland (1994), J. Res. Lepid. 31(1-2): 74, and several times from southern Texas subsequently.

‡"ficianus" Talbot, [1923]

Fruhstorfer Colln.: 52.

Original Combination: *Amphirene epaphus*
ficianus

Proposed without a description or indication;
a *nomen nudum*.

Tribe Junoniini Reuter, 1896

Acta Soc. Sci. fenn. 22(1): 457, 554, 557. Type-genus: *Junonia* Hübner, [1819], Verz. bekannt. Schmett. (3): 34.

Genus Junonia Hübner, [1819]

Verz. bekannt. Schmett. (3): 34. Type-species: *Papilio lavinia* Cramer, 1775, Uitl. Kapellen 1(2): 32, pl. 21, figs. C, D; (8): 153 (index) (= *Papilio evarete* Cramer, 1779, Uitl. Kapellen 3(17): 18, pl. 203, figs. C, D; (24): 174 (index); homonym), by designation of Scudder (1872), 4th Ann. Rept. Peabody Acad.

Sci. (1871): 43. Wahlberg *et al.* (2005), Biol. J. Linn. Soc. 86(2): 236, 239, 250, determined that *Junonia* and *Precis* Hübner, [1819], are distinct genus-level taxa. The following arrangement of species-level taxa follows Neild (2008), Butterflies of Venezuela 2: 57-62, 247-250, pls. 7, 8, where types are designated and taxa discussed in detail.

- = *Alcyoneis* Hübner, [1819]
Verz. bekannt. Schmett. (3): 34-35. Type-species: *Alcyoneis almane* Hübner, [1819], Verz. bekannt. Schmett. (3): 35, no. 293 (= *Papilio almana* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 472, no. 89; synonym), by designation of Hemming (1933), Entomol. 66(844): 197.
- = *Aresta* Billberg, 1820
Enum. Ins. Mus. Billb.: 79. Type-species: *Papilio laomedia* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 772, no. 176 (= *Papilio atlites* Linnaeus, 1763, *in*: Johansson, Cent. Ins. Rar: 24-25, no. 72; synonym), by designation of Scudder (1875) Proc. Am. Acad. Arts Sci., Boston 10(2): 117, no. 113.
- = *Kamilla* Collins & Larsen, 1991
In: Larsen, Butterflies Kenya, Nat. Hist.: 444. Type-species: *Papilio cymodoce* Cramer, 1777, Uitl. Kapellen 2(9): 5, pl. 99, figs. G, H; (16): 148 (index), by original designation.

705. *Junonia coenia* Hübner, [1822]

a. *Junonia coenia coenia* Hübner, [1822]

Samml. exot. Schmett. 2: pl. [32], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Junonia Coenia*

Type Locality: Not stated; listed as “Amer. Sept. et Centr., Venezuela”, by W. F. Kirby (1908), *in*: P. Wytsman, Facsimile ed. Hübner Samml. exot. Schmett. 3(addit. notes): 24; suggested to be “Cuba” by W. Comstock (1944), Sci. Surv. Puerto Rico & Virgin Is. 12(4): 453, Klots (1951), Field Guide Butterflies N. Am.: 109, and Tilden (1971), J. Res. Lepid. 9(2): 104; suggested to be “United States” by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 175.

Types: Type(s) probably lost.

= *bergi* Avinoff, 1926

Ann. Carnegie Mus. 16(3/4): 366, pl. 32, figs. 7 ♂ D&V (holotype), 8 ♀ D&V.

Original Combination: *Junonia coenia bergi*

Type Locality: “St. George, Bermudas”

Types: Holotype (#7418) in CMNH.

= *antirrhini* (Fabricius, 1793)

In: Bryk, Syst. Glossat.: 94, no. 26; cited *Papilio orythia* Fabricius, 1793, Entomol. Syst. 3(1): 91, no. 284, and *sensu* J. E. Smith (1797), *in*: Smith & Abbot, Ins. Georgia 1: pl. 8.

Original Combination: *C[ynthia]. Antirrhini*

Proposed as a replacement name for *coenia* based on the name of a foodplant; a junior objective synonym of *coenia*.

= *weidenhammeri* Polacek, 1925

Maryland Acad. Sci. Bull. 6(3): 10-11, fig. A ♂ D, B ♂ V (“holotype”).

Original Combination: *Junonia*

Coenia [ab.] *Weidenhammeri*

Type Locality: “St. Peter's Cemetary in Baltimore” [Baltimore City, Maryland]

Types: Location of “holotype” not known.

This taxon was redescribed by Polacek (1926), Bol. Soc. Colomb. Cienc. Nat. 15(85): 41-43, figs. A ♂ D, B ♂ V.

- = ‡"rubrosuffusa" (W. D. Field, 1936) J. Entomol. & Zool. 28(2): 23-24.

Original Combination: *Precis coena* [sic!] tr. f. *rubrosuffusa*

Type Locality: "Lawrence, Kansas" [Douglas County]

Types: "Holotype" in USNM.

- = ‡"rosa" (Whittaker & D. Stallings, 1944) Entomol. News 55(4): 91.

Original Combination: *Precis coenia* f. *hiem. rosa*

Type Locality: "Caldwell, Kansas" [Sumner County]

Types: "Holotype" in USNM.

‡"quinatzin" (Arias, 1968)

Exp. cient. españ. siglo XVIII, Exp. Bot. Nueva España: 395, pl. [106], figs. 5-6.

Original Combination: *Papilio Quinatzin*

Name proposed without a description or indication; a *nomen nudum*.

b. *Junonia coenia grisea* Austin & J. Emmel, 1998

Syst. W. N. Am. Butterflies (42): 512, figs. 51 ♂ D, 52 ♂ V (holotype); 53 ♀ D, 54 ♀ V.

Original Combination: *Junonia coenia grisea*

Type Locality: "California: Los Angeles County; South Pasadena, elevation 198 m"

Types: Holotype in LACM.

- = ‡"schraderi" Gunder, 1925 Entomol. News 36(7): 199, no. 11, pl. 5, fig. 11 ♂ D ("holotype").

Original Combination: *Junonia coenia* ab. ♀ *schraderi*

Type Locality: "Los Angeles, California" [Los Angeles County]

Types: "Holotype" in AMNH; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 43, figs. 10 ♀ D.

- = ‡"wilhelmi" Gunder, 1927 Entomol. News 38(5): 134-135, no. 4, pl. 2, fig. 4 ♂ D ("holotype").

Original Combination: *Junonia coenia wilhelmi* ♂ nov. tr. form

Type Locality: "Los Angeles, California" [Los Angeles County]

Types: "Holotype" in AMNH.

***706. *Junonia evarete* (Cramer, 1779)**

Uitl. Kapellen 3(17): 18, pl. 203, figs. C ♀ D, D ♀ V; (24): 174 (index).

Original

Combination: *Pap[ilio]. Nymph[alis]. Gemm[ata]. Evarete*

Type Locality: "Surinamen" "Suriname"; neotype from "Paramaribo, Suriname."

Types: Type(s) probably lost; neotype in RMNH, designated by Neild (2008), Butterflies of Venezuela 2: 247, fig. A1 ♂ D&V.

- = *lavinia* (Cramer, 1775)
 Uitl. Kapellen 1(2): 32, pl. 21, figs. C ♀ D, D ♀ V; (8): 153 (index).
Original
Combination: *Pap[ilio] N[ymphalis] G[emmatas]. Lavinia*
Type Locality: "Suriname" "Surinam"
Types: Type(s) probably lost.
 Preoccupied by *Papilio lavinia* Fabricius, 1775, Syst. Entomol.: 450, no. 32.
- = *cortes* (Herbst, 1796)
In: Jablonsky, Natursyst. Ins., Schmett. 8: 260, no. 151, pl. 225, figs. 3, 4; cited *Papilio lavinia* Cramer, 1775, Uitl. Kapellen 1(2): pl. 21, figs. C, D; (8): 153 (index).
Original Combination: *Papilio Cortes*
 Proposed to replace *Papilio lavinia* Cramer, 1775, with the same data (Code Article 60.3).
- = *esra* (Fabricius, 1798)
 Entomol. Syst. Suppl.: 425.
Original Combination: *P[apilio]. N[ymphalis] Esra*
Type Locality: "Cajennae"; neotype from "Paramaribo, Suriname."
Types: Type(s) probably lost; neotype in RMNH, designated by Neild (2008), Butterflies of Venezuela 2: 248, fig. A1 ♂ D&V. This is the same specimen as the neotype for *Papilio evarete*.
- = *divaricata* C. Felder & R. Felder, 1867
 Reise Novara Zool. (3): 401, no. 598.
Original Combination: *Junonia Divaricata*
Type Locality: "Surinam...Cuba"
Types: Syntypes in BMNH.
- = *arenosa* W. Forbes, [1929]
 J. N. Y. Entomol. Soc. 36(4): 311.
Original Combination: *J[unonia]. I[avinia]. arenosa*
Type Locality: "Zandarij, Boven Para District, Surinam"
Types: Holotype (#889) in CUIC.
- a. **Junonia evarete zonalis** C. Felder & R. Felder, 1867
 Reise Novara Zool. (3): 399-400, no. 593; cited *Junonia lavinia* var. *occidentalis* C. Felder & R. Felder, 1862, Wien. entomol. Monatschr. 6(4): 110 (part).
Original Combination: *Junonia Zonalis*
Type Locality: "Nova Grenada: Bogotá...Cuba...Porto-Rico"; lectotype form "Cuba"
Types: Lectotype in BMNH, designated by Neild (2008), Butterflies of Venezuela 2: 248-249.
 Proposed for *Junonia lavinia* var. *occidentalis* C. Felder & R. Felder, 1862 (in part). First reviser choice of *zonalis* over *pallens* was made by Neild (2008), Butterflies of Venezuela 2: 249.
- = *pallens* C. Felder & R. Felder, 1867
 Reise Novara Zool. (3): 401, no. 597.
Original Combination: *Junonia Pallens*
Type Locality: "Venezuela"
Types: Syntypes in BMNH.
- b. **Junonia evarete nigrosuffusa** W. Barnes & McDunnough, 1916
 Can. Entomol. 48(7): 222.
Original Combination: *Junonia coenia nigrosuffusa*

Type Locality: "Palmerlee, Ariz....Huachuca Mts., Ariz....Babaquivera [sic!] Mts., Pima Co., Arizona" [Baboquivari Mts.]

Types: Syntypes in USNM.

= *melanina* A. Hall, 1919

Entomol. 52(676): 196.

Original Combination: *Junonia*

lavinia var. *melanina*

Type Locality: "Jalisco, W. Mexico, 5000 ft."

Types: Holotype in BMNH.

707. *Junonia genoveva* (Cramer, 1780)

Uitl. Kapellen 4(25): 4, pl. 290, figs. E ♂ D, F ♂ V; (34): 249 (index).

Original

Combination: *Pap[ilio]. Nymph[alis]. Phaler[ata] Genoveva*

Type Locality: "Surinamsche" "Suriname"; suggested to be "northeastern South America" by F. Brown and Heineman (1972), Jamaica Butterflies: 179-180; considered to be "West Indian" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 176. Neotype from "Sinnamary (by bridge over estuary), NC French Guiana."

Types: Types apparently lost; neotype in RMNH, designated by Neild (2008), Butterflies of Venezuela 2: 247, pl. 7, figs. 199 ♀ D, 200 ♀ V.

Genus *Hypolimnias* Hübner, [1819]

Verz. bekannt. Schmett. (3): 45. Type-species: *Papilio pipleis* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 476, no. 108 (= *Papilio pandarus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 461, no. 17; synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 194, no. 554.

= *Esoptria* Hübner, [1819]

Verz. bekannt. Schmett. (3): 45-46. Type-species: *Papilio bolina* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 479, no. 124, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 168, no. 406.

= ‡*Diadema* Boisduval, 1832

In: d'Urville, Voy. Astrolabe 1(Lépid): 135. Type-species: *Papilio bolina* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 479, no. 124, by designation of Blanchard (1840), in: Castelnau, Hist. Nat. Ins. 3: 451. Preoccupied by *Diadema* G. Gray, 1825, Ann. Phil. 26: 426 and a junior objective synonym of *Esoptria*.

= *Euralia* Westwood, 1850

In: Gen. diurn. Lepid. 2(35): 281. Type-species: *Papilio dubius* Palisot de Beauvois, 1830, Ins. Afr. Amér.: 238, pl. 6, figs. A, Aa (= *Diadema anthedon* E. Doubleday, 1845, Ann. Mag. Nat. Hist. [1]16(104): 181; homonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 173, no. 437.

= *Eucalia* C. Felder, 1861

Nova Acta Acad. Caes. Leop.-Carol. germ. Nat. Cur. 28(3): 25, under *Diadema*, no. 57. Type-species: *Diadema anthedon* E. Doubleday, 1845, Ann. Mag. Nat. Hist. [1]16(104): 181, by designation of Hemming (1939), Proc. R. Entomol. Soc. Lond. (B)8(7): 134.

708. *Hypolimnias misippus* (Linnaeus, 1764)

Mus. Lud. Ulr. [1]: 264, no. 83.

Original

Combination: *P[apilio]. D[anaus]. F[estivus]. Misippus*

Type Locality: "America" ; suggested to be "Java" by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 350. [Indonesia]

Types: Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 350.

The entirely Old World synonymy for this species was provided by Lamas *et al.* (2004), Atlas of Neotrop. Lepid. Chkfst: Part 4A: 251.

Tribe **Melitaeini** Newman, [1870]

Ill. Nat. Hist. Brit. Butts: 39 (as "Melitaeidae"). Type-genus: *Melitaea* [Fabricius], 1807, *in*: Illiger, Mag. f. Insektenk. 6: 284.

Subtribe **Euphydryina** Higgins, 1976

Ent. Gaz. 29(3): 109 (as "Euphadryini"). Type-genus: *Euphydryas* Scudder, 1872, 4th Ann. Rept. Peabody Acad. Sci. (1871): 48.

Genus **Euphydryas** Scudder, 1872

4th Ann. Rept. Peabody Acad. Sci. (1871): 48. Type-species: *Papilio phaeton* Drury, 1773, Ill. Nat. Hist. 1: 42-43, pl. 21, figs. 3, 4; 2: index, by original designation. I.C.Z.N. *Opinion* 278 placed this name on the *Official List of Generic Names in Zoology* as name no. 700.

Subgenus **Hypodryas** Higgins, 1978

Entomol. Gaz. 29(3): 110. figs. 1-3. Type-species: *Papilio maturna* Linnaeus, 1761, Fauna Svecica (ed. 2): 280, by original designation. Lastukhin (2008), Sci. Wks. St. Nat. Res. "Prisursky" 19: 47-63, describes several 'sectio' that would be placed here. Korb & Bol'shakov (2010), Eversmannia 21-22: 30-36, discuss and refute this paper. These taxa are included with the caveat that 'sectio' have no status in zoological nomenclature and they are probably nomina nuda.

= ‡*Lemonias* Hübner, [1806]

Tentamen: [1]. Type-species: *Papilio maturna* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 480, no. 136, by monotypy. The Tentamen was suppressed by I.C.Z.N. *Opinion* 97.

I.C.Z.N. *Opinion* 278 placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 79.

= *Neodryas* Lastukhin, 2008

Sci. Wks. St. Nat. Res. "Prisursky" 19: 47, 48. Type species: *Melitaea gillettii* (as *Euphydryas gillettii*) W. Barnes, 1897, Can. Entomol. 29(2): 40-41, by original designation.

= *Cryodryas* Lastukhin, 2008

Sci. Wks. St. Nat. Res. "Prisursky" 19: 47, 48. Type species: *Melitaea iduna* (as *Hypodryas iduna*) Dalman, 1816, K. svenska VetenskAkad. Handl. 37(1): 75, by original designation.

709. **Euphydryas gillettii** (W. Barnes, 1897)

Can. Entomol. 29(2): 40-41.

Original Combination: *Melitaea Gillettii*

Type Locality: "Yellowstone Park, Wyoming"

Types: Syntypes in USNM; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 12, ♂ D&V, and by W. Holland (1931), Butterfly Book (rev. ed.): pl. 56, fig. 22 ♀ D (actually a ♂).

= *glacialis* (Skinner, 1921)

Entomol. News 32(3): 89.

Original Combination: *Melitaea glacialis*

Type Locality: "Two Medicine Lake, Glacier National Park, Montana" [Glacier County]

Types: Syntype (#7022) in CMNH.

- = ‡"herri" Gunder, 1929
Pan-Pac. Entomol. 6(1): 8.
Original Combination: *Euphydryas gilletti* tr. f. *herri*
Type Locality: "Martina, near Stark, Missoula
County, Montana"
Types: "Holotype" in AMNH.

Subgenus **Euphydryas** Scudder, 1872

- = *Occidryas* Higgins, 1978
Sci. Wks. St. Nat. Res. "Prisursky" 19: 47, 48. Type
species: *Melitaea editha* (as *Occidryas editha*) Boisduval, 1852,
Annls. Soc. Entomol. Fr. (2)10(2): 304-305, no. 47, by original
designation.
- = *Anthodryas* Lastukhin, 2008
Entomol. Gaz. 29(3): 112, figs. 6-12. Type-species: *Melitaea
anicia* E. Doubleday, 1847, in: Gen. diurn. Lepid. (1)(12): pl. 23,
fig. 2; (21): 179, no. 6, by original designation.

710. **Euphydryas editha** (Boisduval, 1852)

editha group Bauer, 1975

In: Howe, Butterflies N. Am.: 189.

a. **Euphydryas editha taylori** (W. H. Edwards, 1888)

Can. Entomol. 20(5): 82-83.

Original Combination: *M[elitaea]. Taylori*

Type Locality: "Victoria" implied from the text; lectotype
from "Vanc. Isd." [Vancouver Island, British Columbia]

Types: Lectotype in CMNH, designated by F. Brown
(1966), Trans. Am. Entomol. Soc. 92(3): 376, fig. 6 ♂
D&V; figured by Gunder (1929), Pan-Pac. Entomol. 6(1):
pl. 11 ♂ D&V.

- = ‡"victoriae" Gunder, 1926
Entomol. News 37(1): 4-5, no. 6, pl. 1, fig. 6 ♀ D
("holotype").

Original Combination: *Euphydryas taylori* ab.
♀ *victoriae*

Type Locality: "Victoria, British Columbia,
Canada" [Vancouver Island]

Types: "Holotype" in AMNH.

- = ‡"barnesi" Gunder, 1928
Can. Entomol. 60(7): 164, pl. A, figs. 8 ♂ D, 8a
♂ V ("holotype").

Original Combination: *Euphydryas taylori* tr.
f. *barnesi*

Type Locality: "Victoria, B. C." [Vancouver
Island, British Columbia]

Types: "Holotype" in USNM.

b. **Euphydryas editha editha** (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 304-305, no. 47;
figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl.
259, figs. 2171 ♂ D&V, 2172 ♀ D&V.

Original Combination: *Melitaea Editha*

Type Locality: "les montagnes"; refined to "dans les
bois montueux" by Boisduval (1868), Annls. Soc.
Entomol. Belg. 12: 19, no. 48; suggested to be "foothills
S edge of San Joaquin Valley, California" by Bauer
(1975), in: Howe, Butterflies N. Am.: 190; redefined as

"Twin Peaks, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 17.
Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 18, figs. 96 ♂ D, 97 ♂ V.

= *bayensis* Sternitzky, 1937
 Can. Entomol. 69(9): 204-205.

Original Combination: *Euphydryas editha* var. *bayensis*

Type Locality: "Hillsborough, San Mateo Co., Calif." [California]

Types: Syntypes in CAS.

= ‡"sternitzkyi" Gunder, 1929
 Pan-Pac. Entomol. 6(1): 6-7.

Original Combination: *Euphydryas editha* race *baroni* tr. f. *sternitzkyi*

Type Locality: "Hillsboro, near San Mateo, San Mateo County, California"

Types: "Holotype" in AMNH.

c. *Euphydryas editha insularis* T. Emmel & J. Emmel, 1974

J. Res. Lepid. 13(2): 131-134, fig. 1a ♂ D (holotype), 1b ♀ D, 1c ♂ V.

Original Combination: *Euphydryas editha insularis*

Type Locality: "California, Santa Barbara County, Santa Rosa Island"

Types: Holotype in LACM.

d. *Euphydryas editha augustina* (W. G. Wright, 1905)
 Butterflies W. Coast: 54, no. 170; 154, no. 170, pl. 19, figs. 170 ♂ D, 170a ♂ V (holotype).

Original Combination: [*Melitaea Augusta* var.] *Augustina*; *Melitaea Augusta* n. v.

Type Locality: "Southern California" "S. B. Mts." [San Bernardino Mountains, San Bernardino-Riverside counties]

Types: Holotype (#4295) in CAS.

e. *Euphydryas editha quino* (Behr, 1863)

Proc. Calif. Acad. Sci. [1]3(6): 90, no. 3.

Original Combination: *M[elitaea]. Quino*

Type Locality: "California" implied from the title of the paper, "near San Diego" from the description; neotype from "San Diego, San Diego Co., California."

Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 101, figs. 40 ♂ D, 41 ♂ V.

= *augusta* (W. H. Edwards, 1890)
 Can. Entomol. 22(2): 21-23.

Original Combination: *Melitaea Augusta*

Type Locality: "vicinity of San Bernardino" [San Bernardino County, California]

Types: Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 371, fig. 4 ♂ D&V.

= *wrighti* Gunder, 1929
 Pan-Pac. Entomol. 6(1): 5, pl. 9 ♂ D&V (holotype), ♀ D&V.

Original Combination: *Euphydryas editha* race *wrighti*

Type Locality: "San Diego, California" [San Diego County]

Types: Holotype in AMNH.

= ♂ "fieldi" Gunder, 1924
Entomol. News 35(5): 155, pl. 2, fig. E ♂ D ("holotype").

Original Combination: *Euphydryas editha* ab. ♂ *fieldi*

Type Locality: "San Diego, San Diego County, California"

Types: "Holotype" in AMNH; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 34, fig. 16 ♂ D.

= ♂ "thornei" Gunder, 1934
Can. Entomol. 66(6): 129.

Original Combination: *Euphydryas editha wrighti* tr. f. *thornei*

Type Locality: "Chula Vista, San Diego, California"

Types: "Holotype" in AMNH.

= ♂ "rubyae" Hower, 1935
Pan-Pac. Entomol. 11(2): 82.

Original Combination: *Euphydryas quino rubyae* new tr. f.

Type Locality: "Dana Point, Orange County, California"

Types: "Holotype" in Hower collection, possibly in LACM or SDMC.

nubigena group Bauer, 1975

In: Howe, Butterflies N. Am.: 193.

f. Euphydryas editha ehrlichi Baughman & Murphy, 1998
Syst. W. N. Am. Butterflies (29): 398, figs. ♂ D (holotype), 2 ♀ D.

Original Combination: *Euphydryas editha ehrlichi*

Type Locality: "California, San Bernardino Co.; Ord Mts. at NW end of San Bernardino Mountains, W of Victorville, 4400-4520 feet"

Types: Holotype in LACM.

g. Euphydryas editha nubigena (Behr, 1863)

Proc. Calif. Acad. Sci. [1]3(6): 91, no. 5.

Original Combination: *M[elitaea]. nubigena*

Type Locality: "California" implied from the title of the paper, "at the headwaters of the Tuolumne River and beyond, up to elevations of 11,500 feet" from the description; neotype from "west end of Dana Plateau, 11,000-11,400' elevation, above Tioga Pass, Mono County, California."

Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 101, figs. 43 ♂ D, 44 ♂ V.

= ♂ "tiogaensis" Gunder, 1929
Pan-Pac. Entomol. 6(1): 6.

Original Combination: *Euphydryas editha* race *nubigena* tr. f. *tiogaensis*

Type Locality: "Tioga Pass in Yosemite National Park, California"

Types: "Holotype" in LACM; figured by J. A. Comstock (1927), *Butterflies Calif.*: pl. 35, fig. 6 ♀ D.

This name was misspelled "tiogoensis" in the systematic list on plate 16; an incorrect original spelling.

= ‡"boharti" Gunder, 1929
Pan-Pac. Entomol. 6(1): 6.

Original Combination: *Euphydryas editha* race *nubigena* tr. f. *boharti*

Type Locality: "Tuolumne Meadows, Yosemite National Park, California"

Types: "Holotype" in AMNH.

- h. **Euphydryas editha tahoensis** Austin & Murphy, 1998
Syst. W. N. Am. Butterflies (30): 408-409, figs. 9 ♂ D, 11 ♂ V (holotype); 10 ♀ D, 12 ♀ V.

Original Combination: *Euphydryas editha tahoensis*

Type Locality: "Nevada: Washoe County; Carson Range, Tahoe Meadows, 2590 m, T17N R18E S36 on USGS Mt. Rose, Nev. 15' quadrangle"

Types: Holotype in MGCL.

- i. **Euphydryas editha aurilacus** Gunder, 1928
Pan.-Pac. Entomol. 5(2): 49, pl. 2, fig. B ♂ D&V (holotype), ♀ D&V; also figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 10 ♂ D&V.

Original Combination: *Euphydryas aurilacus*

Type Locality: "near Gold Lake Camp, Gold Lake, Sierra County, California"

Types: Holotype in AMNH.

= ‡"foxi" Gunder, 1924
Entomol. News 35(5): 155, pl. 2, fig. D ♂ D.

Original Combination: *Euphydryas rubicunda* ab. ♂ *foxi*

Type Locality: "Gold Lake, Sierra County, California"

Types: "Holotype" in AMNH; figured by J. A. Comstock (1927), *Butterflies Calif.*: pl. 34, fig. 17 ♂ D.

= ‡"albiradiata" Gunder, 1926
Entomol. News 37(1): 3-4, no. 4, pl. 1, fig. 4 ♂ D ("holotype").

Original Combination: *Euphydryas rubicunda* ab. ♂ *albiradiata*

Type Locality: "Loyalton, Sierra County, California"

Types: "Holotype" in AMNH.

- j. **Euphydryas editha lawrencei** Gunder, 1931
Bull. South. Calif. Acad. Sci. 30(2): 47.
Original Combination: *Euphydryas editha* race *lawrencei*
Type Locality: "Near timber line on trail between Diamond Lake (Camp) and summit of Mt. Thielsen (9000 ft.), Douglas Co., Oregon"

Types: Holotype in AMNH.

= *remingtoni* Burdick, 1959
Lepid. News 12(5/6): 168-169.

Original Combination: *Euphydryas editha remingtoni*

Type Locality: "Mt. Thielsen [sic!], Douglas Co., Oregon" [Mt. Thielsen]

Types: Holotype in PMNH.

= ‡"thielsenensis" Gunder, 1931
Bull. South. Calif. Acad. Sci. 30(2): 48.

Original Combination: *Euphydryas editha* race *lawrencei* tr. f. *thielsenensis*

Type Locality: "Timber line, on Mt. Thielsen, Douglas Co., Oregon"

Types: "Holotype" in AMNH.

= ‡"diamondensis" Gunder, 1931
Bull. South. Calif. Acad. Sci. 30(2): 48.

Original Combination: *Euphydryas editha* race *lawrencei* tr. f. *diamondensis*

Type Locality: "Timber line, on Mt. Thielsen, Douglas Co., Oregon"

Types: "Holotype" in AMNH.

- k. ***Euphydryas editha colonia*** (W. G. Wright, 1905)
Butterflies W. Coast: 55, no. 180; 158, no. 180, pl. 20, figs. 180 ♂ D, 180a ♂ V (lectotype), 180b.

Original Combination: [*Melitaea*] *Colonia*; *Melitaea Colonia* n. s.

Type Locality: "Northern Oregon" "Mt. Hood, Oregon" [Hood River-Clackamas counties]

Types: Lectotype (#4300) in CAS, designated by Tilden (1985), Occ. Pap. Calif. Acad. Sci. (118): 21; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 11 ♂ D&V.

baroni group Bauer, 1975

In: Howe, Butterflies N. Am.: 190.

- l. ***Euphydryas editha rubicunda*** (Hy. Edwards, 1881)
Papilio 1(4): 52.

Original Combination: *Melitaea rubicunda* n. var. [of *quino*]

Type Locality: "Sierra Nevada...from 2500 feet to 7000 feet"; defined as "Mariposa Co., California" by Gunder (1929), Pan-Pac. Entomol. 6(1): 6, caption to fig. 15.

Types: Syntypes in AMNH.

= ‡"cottlei" Gunder, 1928
Can. Entomol. 60(7): 164, pl. A, figs. 7 ♂ D, 7a ♂ V ("holotype").

Original Combination: *Euphydryas rubicunda* tr. f. *cottlei*

Type Locality: "Lower Yosemite Valley, Calif." [Mariposa County]

Types: "Holotype" in AMNH.

- m. ***Euphydryas editha baroni*** (W. H. Edwards, 1879)
Can. Entomol. 11(7): 129-131; figured by W. H. Edwards (1887), Butterflies N. Am. 3(3): pl. *Melitaea* 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Melitaea Baroni*

Type Locality: "Mendocino, Cal." [Mendocino County, California]

Types: Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 374, fig. 5 ♂ D&V.

The original description is of the larva; the lectotype is an adult from this brood.

= ‡*baroni* (Hy. Edwards, 1881)

Papilio 1(4): 52.

Original Combination: *Melitaea baroni*

Type Locality: "McCloud fishing station, Shasta Co., Cal." [California]

Types: Syntypes in AMNH.

Preoccupied by *Melitaea baroni* W. H. Edwards, 1879, Can. Entomol. 11(7): 129-131.

= ‡"gunni" Gunder, 1929 (emended)

Pan-Pac. Entomol. 6(1): 6.

Original Combination: *Euphydryas*

editha race *baroni* tr. f. *dunni*

Type Locality: "Mendocino County, California"

Types: "Holotype" (#34998) in AMNH.

This taxon was named for Norman R. Gunn, not "Dunn" as stated in the text. Murphy (1983), J. Res. Lepid. 21(3): 197-198, suggested that this name belongs either here or under *E. e. luestherae*.

- n. **Euphydryas editha karinae** Baughman & Murphy, 1998
Syst. W. N. Am. Butterflies (29): 399, figs. 3 ♂ D (holotype), 4 ♀ D.

Original Combination: *Euphydryas editha karinae*

Type Locality: "California, Mendocino Co., Monkey Rock, 1.5 mi. N of Hull Mountains, 6353 feet"

Types: Holotype in LACM.

- o. **Euphydryas editha luestherae** Murphy & P. Ehrlich, 1980

J. Lepid. Soc. 34(3): 317-318.

Original Combination: *Euphydryas editha luestherae*

Type Locality: "California, Stanislaus Co., Del Puerto Canyon, 22 mi W of Patterson"

Types: Holotype in AMNH.

= ‡"mirabilis" (W. G. Wright, 1905)

Butterflies W. Coast: 55, no. 184; 160, no. 184, pl. 20, figs. 184 ♂ D, 184a ♂ V ("holotype").

Original Combination: [*Melitaea Hoffmanni* var.] *Mirabilis*; *Melitaea Mirabilis* n. v.

Type Locality: "Lake County, California"

Types: "Holotype" (#4304) in CAS.

The text clearly indicates that this taxon was described as an individual variant.

- p. **Euphydryas editha monoensis** Gunder, 1928
Pan-Pac. Entomol. 5(2): 49, pl. 2, fig. A ♂ D&V (holotype), ♀ D&V; also figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 9 ♂ D&V.
Original Combination: *Euphydryas monoensis*
Type Locality: "Rush Creek (below Farmington's ranch), near Mono Lake, Mono Co., California"
Types: Holotype in AMNH.

= *fridayi* Gunder, 1931

Bull. South. Calif. Acad. Sci. 30(2): 47.

Original Combination: *Euphydryas*

editha race *fridayi*

Type Locality: "Near auto road left between June and Silver Lakes, Mono Co., California"

- Types:** Holotype in AMNH.
 = ‡"rubrosuffusa" J. A. Comstock, 1926
 Bull. South. Calif. Acad. Sci. 25(1): 32; figured
 by J. A. Comstock (1927), Butterflies Calif.: pl.
 34, fig. 15 ♀ D ("holotype").
Original Combination: *Euphydryas*
rubicunda ab. *rubrosuffusa*
Type Locality: "Mammoth, Mono Co., Calif."
 [California]
Types: "Holotype" in LACM (Malcolm collection).
- q. **Euphydryas editha edithana** (Strand, 1915)
 Arch. Naturgesch. (A)80(11): 155.
Original Combination: [*Lemonias rubicunda*]
 event. *edithana*
Type Locality: "Lassen Co." "Klamath Co."; defined as
 "flats SE of Ash Creek, Ash Valley, 14 miles SE of Adin,
 5,000' elevation" by J. Emmel *et al.* (1998), Syst. W. N.
 Am. Butterflies (10): 123. [Lassen County, California]
Types: Lectotype in DEI, designated by J. Emmel *et al.*
 (1998), Syst. W. N. Am. Butterflies (10): 123, figs. 1 ♂ D, 2
 ♂ V; figured by Gunder (1929), Pan-Pac. Entomol. 6(1):
 pl. 10 ♂ D&V.
- r. **Euphydryas editha bingi** Baughman & Murphy, 1998
 Syst. W. N. Am. Butterflies (29): 399-400, figs. 5 ♂ D
 (holotype), 6 ♀ V.
Original Combination: *Euphydryas editha bingi*
Type Locality: "California: Modoc Co., Warner Mts.,
 Emerson Peak. Elevation 8200 ft."
Types: Holotype in LACM.
 This name was unjustifiably emended to "bingorum" by
 Lamas (1999), Lepid. News 1999(2): 8.
- s. **Euphydryas editha mattooni** Austin & Murphy, 1998
 Syst. W. N. Am. Butterflies (30): 411, figs. 29 ♂ D, 31 ♂
 V (holotype); 30 ♀ D, 32 ♀ V.
Original Combination: *Euphydryas editha mattooni*
Type Locality: "California: Modoc County; Fort Bidwell
 to Adel Road at Gravel Pit Road, 9.4 road miles north of
 Fort Bidwell in Surprise Valley, 1707 m, T47N R23E
 S24"
Types: Holotype in MGCL.
 This name was unjustifiably emended to "mattoonorum"
 by Lamas (1999), Lepid. News 1999(2): 8.
- t. **Euphydryas editha owyheensis** Austin & Murphy, 1998
 Syst. W. N. Am. Butterflies (30): 410, figs. 25 ♂ D, 27 ♂
 V (holotype); 26 ♀ D, 28 ♀ V.
Original Combination: *Euphydryas editha owyheensis*
Type Locality: "Nevada: Elko County; Owyhee River
 Valley, Wildhorse Crossing Campground, 1950 m, T44N
 R54E (unsectioned) on USGS Wild Horse, Nev. 15'
 quadrangle"
Types: Holotype in MGCL.
- u. **Euphydryas editha lehmani** Gunder, 1929
 Pan-Pac. Entomol. 6(1): 7, pl. 12, ♂ D&V (holotype), ♀
 D&V.
Original Combination: *Euphydryas editha* race *lehmani*
Type Locality: "Lehman Caves Resort, Mount Wheeler,
 White Pine County, Nevada"
Types: Holotype in AMNH.

- = *koreti* Murphy & P. Ehrlich, 1984
J. Res. Lepid. 22(4): 257, 259, fig. 2 ♂ D (holotype), ♀ D.
Original Combination: *Euphydryas editha koreti*
Type Locality: "Nevada, White Pine County, Ridge south of Bald Mtn."
Types: Holotype in AMNH.
The status of this taxon was discussed by Britten *et al.* (1995), J. Res. Lepid. 31(3/4): 278-286.
- = ‡"caverna" Gunder, 1934
Can. Entomol. 66(6): 129.
Original Combination: *Euphydryas editha lehmani* tr. f. *caverna*
Type Locality: "Mt. Wheeler, White Pine Co., Nevada"
Types: "Holotype" in AMNH.
- v. ***Euphydryas editha gunnisonensis*** F. Brown, [1971]
J. Res. Lepid. 9(1): 21-22, fig. 1 ♂ D&V (holotype), ♀ D&V.
Original Combination: *Euphydryas editha gunnisonensis*
Type Locality: "Owl Creek Pass road 2 miles east of Colo. 550, near Ridgeway, Ouray County, Colorado, 7000 feet above sea level"
Types: Holotype in AMNH.
- w. ***Euphydryas editha alebarki*** Ferris, [1971]
J. Res. Lepid. 9(1): 17-20, fig. 1 ♂ D&V (holotype), ♀ D&V.
Original Combination: *Euphydryas editha alebarki*
Type Locality: "Medicine Bow N. F., about 10 miles S. W. of Encampment on Battle Lake Road, Sierra Madre mountains, 8600', Carbon Co., Wyoming"
Types: Holotype in LACM.
- x. ***Euphydryas editha montanus*** McDunnough, 1928
Can. Entomol. 60(10): 249.
Original Combination: [*Euphydryas hutchinsi*] [varietal or high altitude race] *montanus*
Type Locality: "upper slopes Mt. Washburn, Yellowstone National Park at about 10,000 ft. altitude" [Wyoming]
Types: Holotype (#2877) in CNC; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 12 ♂ D&V.
- y. ***Euphydryas editha hutchinsi*** McDunnough, 1928
Can. Entomol. 60(10): 248-249.
Original Combination: *Euphydryas hutchinsi*
Type Locality: "Milligan Canyon, Jefferson Co., Mont." [Montana]
Types: Holotype (#2876) in CNC; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 12 ♂ D&V.
- z. ***Euphydryas editha beani*** (Skinner, 1897)
Can. Entomol. 29(6): 155.
Original Combination: *Melitaea Beani*
Type Locality: "high elevations near Laggan, Alberta"; defined as "vicinity of...Lake Louise, Banff National Park, Alberta" by Kondla (1996), Alberta Naturalist 26(2): 40.
Types: Syntypes (#7016) in CMNH; one figured by W. Holland (1898), Butterfly Book: pl. 18, fig. 13 ♂ D.
= ‡"blackmorei" Gunder, 1926



Entomol. News 37(1): 2, no. 1, pl. 1, fig. 1 ♂ D ("holotype").

Original Combination: *Euphydryas nubigena* var. *beani* ab. ♂ *blackmorei*

Type Locality: "Mt. Cheam, British Columbia, Canada"

Types: "Holotype" in AMNH.

711. **Euphydryas phaeton** (Drury, 1773)

a. **Euphydryas phaeton phaeton** (Drury, 1773)

Ill. Nat. Hist. 1: 42-43, pl. 21, figs. 3 ♀ D, 4 ♀ V (1770); 2: index (1773, name given).

Original Combination: *Papilio Phaeton*

Type Locality: "New York"

Types: Type(s) lost.

I.C.Z.N. *Opinion* 278 placed this name on the *Official List of Specific Names in Zoology* as name no. 104.

= *phaetaena* (Hübner, [1819])

Verz. bekannt. Schmett. (2): 228, no. 221; cited "Fabr. Syst. Pap. 167, Cram. 193. C. D."

Original Combination: *Melitaea Phaëtaena*

Type Locality: Not stated.

Types: Type(s) probably lost.

This name is probably a misspelling, but the references by Hübner make this unclear.

= *schausi* (A. Clark, 1927)

Proc. U. S. Nat. Mus. 71(2683): 1-2, pl. 1, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V; pl. 3, figs. 17-24; pl. 4, figs. 25-32; pl. 5, figs. 33-40.

Original Combination: *Melitaea phaëton schausi*

Type Locality: Not stated; syntypes from "Cabin John, Maryland." [Montgomery County]

Types: Syntypes in USNM.

= *borealis* F. Chermock & R. Chermock, 1940
Bull. Penn. Acad. Sci. 14: 140.

Original Combination: *Euphydryas phaëton borealis*

Type Locality: "Lincoln, Maine" [Penobscot County]

Types: Holotype in CNC.

= ‡"superba" (Strecker, 1878)

Butterflies & Moths N. Am., Comp. Syn. Cat.: 125, no. 249.

Original Combination: [*Melitaea Phaeton*] ab. a. ♂ *Superba*

Type Locality: "Long Island, New York"

Types: "Holotype" in FMNH; figured by Gunder (1927), Entomol. News 38(9): pl. 6, upper half, fig. 5 ♂ D&V.

= ‡"phaethusa" (Hulst, 1881)

Bull. Brooklyn Entomol. Soc. 3(9): 77, no. 6, pl., fig. no. 6 ♂ ("holotype").

Original Combination: *Melitaea Phaethusa* aber. nov.

Type Locality: "just outside the city line of Brooklyn, at east Williamsburgh" [Long Island, New York]

Types: "Holotype" in USNM; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 1 ♂ D&V.

= ‡"streckeri" (Ellsworth, 1902)

Entomol. News 13(4): 104.

Original Combination: [*Melitaea phaeton* aberration or variety] *Melitaea streckeri*

Type Locality: "Vestal, N. Y." [Broome County, New York]

Types: Location of "holotype" not known.

Although this name was proposed as a binomen, this taxon was clearly defined as an individual variant in the text. It is considered unavailable.

= ‡"magnifica" (A. Clark, 1927)

Proc. U. S. Nat. Mus. 71(2683): 7, pl. 2, figs. 9 ♀ D, 10 ♀ V, 11 ♀ D ("type"), 12 ♀ V ("type").

Original Combination: *Melitaea phaeton* ab. *magnifica*

Types: "Cabin John, Maryland" [Montgomery County]

b. *Euphydryas phaeton ozarkae* Masters, 1968

Entomol. News 79(4): 87-89, figs. 1 ♂ D, 2 ♂ V (holotype); 5 ♀ D, 6 ♀ V, 9 ♂ genitalia.

Original Combination: *Euphydryas phaeton ozarkae*

Type Locality: "Ridge north of Lynch Hollow, near county road F, Camden county, Missouri"

Types: Holotype in CMNH.

The status of this taxon relative to *E. p. phaeton* was examined by Vawter & Wright, 1986, J. Res. Lepid. 25(1): 25-29.

712. *Euphydryas chalcedona* (E. Doubleday, 1847)

The separation of *E. chalcedona*, *E. colon* and *E. anicia* follows J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (72): 828.

a. *Euphydryas chalcedona klotsi* dos Passos, 1938

Can. Entomol. 70(10): 199-200, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Euphydryas chalcedona klotsi*

Type Locality: "Roosevelt Lake, Ariz." [Gila County, Arizona]

Types: Holotype in AMNH.

= ‡"venusta" Gunder, 1932

Pan-Pac. Entomol. 8(3): 127.

Original Combination: *Euphydryas anicia* race *hermosa* tr. f. *venusta*

Type Locality: "Cottonwood Canyon, above Roosevelt Camp, Roosevelt Dam, Arizona" [Gila County]

Types: "Holotype" in AMNH.

b. *Euphydryas chalcedona kingstonensis* T. Emmel & J. Emmel, 1973

J. Res. Lepid. 11(3): 141-143, fig. 1, upper, ♂ D (holotype), ♀ D.

Original Combination: *Euphydryas chalcedona kingstonensis*

Type Locality: "California, San Bernardino County, rocky canyon 3/4 air mile SE of Horse Thief Springs, 4400-4800', Kingston Range"

Types: Holotype in LACM.

c. *Euphydryas chalcedona corralensis* T. Emmel & J. Emmel, 1973

J. Res. Lepid. 11(3): 143-144, fig. 1, lower, ♂ D (holotype), ♀ D.

Original Combination: *Euphydryas chalcedona corralensis*

Type Locality: "California, San Bernardino County, Rock Corral"

Types: Holotype in LACM.

d. **Euphydryas chalcedona hennei** Scott, 1981

Papilio (n.s.) 1: 4.

Original Combination: *Euphydryas chalcedona hennei*

Type Locality: "San Diego Co. Calif....Box Can." [California]

Types: Holotype in EMEC.

= ‡"hennei" Gunder, 1932

Pan-Pac. Entomol. 8(3): 126.

Original Combination: *Euphydryas chalcedona* race *quino* tr. f. *hennei*

Type Locality: "Chino Canyon, Palm Springs, California" [Riverside County]

Types: "Holotype" in AMNH.

e. **Euphydryas chalcedona sierra** (W. G. Wright, 1905)

Butterflies W. Coast: 54, no. 163; 152, no. 163, pl. 18, figs. 163 ♂ D (lectotype), 163b ♀ D, 163c ♂ V.

Original Combination: [*Melitaea*] *Sierra*; *Melitaea Sierra* n. s.

Type Locality: "Central California Mountains" "Sierra Nevadas"

Types: Lectotype (#4293) in CAS, designated by Tilden (1985), Occ. Pap. Calif. Acad. Sci. (118): 23; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 3 ♂ D&V.

= *irelandi* Gunder, 1929

Can. Entomol. 61(2): 44-45.

Original Combination: *Euphydryas irelandi*

Type Locality: "trail near Alta Peak, Sequoia Nat. Park, Calif." [Tulare County]

Types: Holotype in AMNH; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 8 ♂ D&V.

J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (72): 828, treated this as a subspecies-level taxon.

= ‡"magdelenae" Gunder, 1925

Entomol. News 36(7): 197, no. 8, pl. 5, fig. 8 ♂ D ("holotype").

Original Combination: *Euphydryas sierra* ab. ♂ *magdelenae*

Type Locality: "Glen Alpine Creek, El Dorado County, California"

Types: "Holotype" in AMNH.

= ‡"umbrobasana" J. A. Comstock, 1926

Bull. South. Calif. Acad. Sci. 25(1): 31; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 35, fig. 5 ♂ D ("holotype").

Original Combination: *Euphydryas sierra* [ab.] *umbrobasana*

Type Locality: "Lake Tahoe region"

Types: "Holotype" in LACM.

f. **Euphydryas chalcedona olancha** (W. G. Wright, 1905)

Butterflies W. Coast: 54, no. 160; 150, no. 160, pl. 18 figs. 160 ♂ D (lectotype), 160b ♀ D.

Original Combination: [*Melitaea*] *Olancha*; *Melitaea*
Olancha n. s.

Type Locality: "Sierra Nevada" "Olancha Peak, Cal."
[Tulare-Inyo counties, California]

Types: Lectotype (#4291) in CAS, designated by Tilden
(1985), Occ. Pap. Calif. Acad. Sci. (118): 19; figured by
Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 4 ♂ D&V.

= ‡"malcolmi" Gunder, 1927
Entomol. News 38(5): 134, no. 3, pl. 2, fig. 3 ♀ D
("holotype").

Original Combination: *Euphydryas*
chalcedona race *olancho malcolmi* ♀ nov. tr.
form

Type Locality: "Casa Diablo, Mono County,
California"

Types: "Holotype" in AMNH.

= ‡"georgei" Gunder, 1928
Entomol. News 39(10): 306, pl. 14, figs. D ♂ D
("holotype"), DD 3 ♀♀ D ; figured by Gunder
(1929), Pan-Pac. Entomol. 6(1): pl. 4 ♂ D&V.

Original Combination: *Euphydryas chalcedona*
olancho forma *georgei*

Type Locality: "Casa Diablo Hills, Mono
County, California"

Types: "Holotype" in AMNH.

g. ***Euphydryas chalcedona macglashanii*** (Rivers, 1888)
Proc. Calif. Acad. Sci. (2)1(7): 103-105.

Original Combination: *M[elitaea]*. *Macglashanii*

Type Locality: "neighborhood of Truckee...California"
[Nevada County]

Types: Location of type(s) not known; supposedly
figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 1
♂ D&V.

= ‡"truckeensis" Gunder, 1928
Entomol. News 39(10): 305-306, pl. 14, figs. B ♂
D ("holotype"), BB 3 ♀ D; figured by Gunder
(1929), Pan-Pac. Entomol. 6(1): pl. 3 ♂ D&V.

Original Combination: *Euphydryas*
chalcedona race *mcglashanii* f. *truckeensis*

Type Locality: "Truckee, Calif." [Nevada
County, California]

Types: "Holotype" in AMNH.

= ‡"hilli" Gunder, 1928
Entomol. News 39(10): 306, pl. 14, fig. C ♀ D
("holotype").

Original Combination: *Euphydryas*
chalcedona race *mcglashanii* forma transit. *hilli*

Type Locality: "Auburn, California (near
Truckee)" [Placer County]

Types: "Holotype" in AMNH.

h. ***Euphydryas chalcedona dwinnellei*** (Hy. Edwards,
1881)

Papilio 1(4): 51-52.

Original Combination: *Melitaea dwinnellei* n. var.
[of *chalcedon*]

Type Locality: "McCloud fishing station, Shasta Co.,
Cal." [California]

Types: Syntypes in AMNH; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 1 ♂ D&V.

i. **Euphydryas chalcedona trinitina** Baughman & Murphy, 1998

Syst. W. N. Am. Butterflies (29): 400, figs. 7 ♂ D (holotype), 8 ♀ D.

Original Combination: *Euphydryas chalcedona trinitina*

Type Locality: "California, Siskiyou Co.-Trinity Co. Line; on Sawtooth Ridge in the Trinity Alps, south of Caribou Lake, 7300-7840 feet"

Types: Holotype in LACM.

j. **Euphydryas chalcedona chalcedona** (E. Doubleday, 1847)

In: Gen. diurn. Lepid. (1)(12): pl. 23, fig. 1 ♀ D; (21): 180, no. 5 (1848).

Original Combination: *Melitaea Chalcedona*

Type Locality: "Haiti" in error; corrected to "Californie" by Boisduval (1852), Annls. Soc. Entomol. Fr. (2)10(2): 303-304, no. 46; suggested to be "from the neighborhood of San Francisco" by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 85.

Types: Syntype(s) in BMNH; figured by Gunder (1928), Pan-Pac. Entomol. 5(1): pl. 1 ♀ D&V, and (1929), Pan-Pac. Entomol. 6(1): pl. 1 ♀ D&V.

= *cooperi* (Behr, 1863)

Proc. Calif. Acad. Sci. [1]3(6): 90, no. 2.

Original Combination: *M[elitaea]. Cooperi*

Type Locality: "California" implied from the title of the paper, "near Clear Lake...Mount Tamal Pais" from the description; neotype from "Mount Tamalpais, Marin County, California."

Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 101, figs. 37 ♂ D, 38 ♂ V.

= *sinecat* J. Scott, 2008

Papilio (n.s.) 18: 32-34, pl 3, third row left ♂ D, third row right ♂ V (holotype).

Original Combination: *Euphydryas chalcedona sinecat*

Type Locality: "Pine Hill, El Dorado Co., Calif." [California]

Types: Holotype in BMNH.

= ‡"fusimacula" (W. Barnes, 1900)

Can. Entomol. 32(2): 42.

Original Combination: *Melitaea Chalcedon*, ab. *fusimacula*

Type Locality: "California"

Types: "Holotype" in USNM; figured by Gunder (1927), Entomol. News 38(9): pl. 7, upper half, fig. 4 ♀ D&V.

= ‡"mariana" (W. Barnes, 1900)

Can. Entomol. 32(2): 42, 43.

Original Combination: *Melitaea Chalcedon*, ab. *Mariana*

Type Locality: "California"



- Types:** "Holotype" in USNM; figured by Gunder (1927), Entomol. News 38(9): pl. 7, lower half, fig. 4 ♂ D&V.
- = ‡"grundeli" (Coolidge, 1908)
Can. Entomol. 40(11): 42.
Original Combination: *Lemonias chalcadon* aberr. *Grundeli*
Type Locality: "Cathran Gulch, Wright's Station, Calif." [Santa Clara County, California]
Types: Location of "holotype" not known.
- = ‡"lorquini" (Oberthür, 1914)
Étud. Lépid. Comp. 9(2): 76, pl. 259, fig. 2170 ♂ D&V ("holotype").
Original Combination: [*Melitaea Chalcadon*] ab. *Lorquini*
Type Locality: Not stated, "Californie" implied from the title of the paper.
Types: "Holotype" in USNM.
- = ‡"omniluteofuscus" Gunder, 1925
Entomol. News 36(7): 195-196, no. 4, pl. 5, fig. 4 ♀ V ("holotype").
Original Combination: *Euphydryas chalcadon* ab. ♀ *omniluteofuscus*
Type Locality: "Santa Monica, Los Angeles County, California"
Types: "Holotype" in AMNH.
- = ‡"hemiluteofuscus" Gunder, 1925
Entomol. News 36(7): 196, no. 5, pl. 5, fig. 5 ♂ V ("holotype").
Original Combination: *Euphydryas chalcadon* ab. ♂ *hemiluteofuscus*
Type Locality: "Altruas [sic!], Modoc County, California" [Alturas]
Types: "Holotype" in AMNH.
- = ‡"suprafusa" J. A. Comstock, 1926
Bull. South. Calif. Acad. Sci. 25(1): 30; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 32, fig. 9 ♀ D ("holotype").
Original Combination: *Euphydryas chalcadon* ab. *suprafusa*
Type Locality: "Los Angeles, Calif." [Los Angeles County, California]
Types: "Holotype" in LACM.
- = ‡"supranigrella" J. A. Comstock, 1926
Bull. South. Calif. Acad. Sci. 25(1): 30; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 32, fig. 8 ♂ D ("holotype").
Original Combination: *Euphydryas chalcadon* ab. *supranigrella*
Type Locality: "Mt. Wilson, Calif." [San Bernardino County, California]
Types: "Holotype" in LACM.
- = ‡"hemimelanica" J. A. Comstock, 1926
Bull. South. Calif. Acad. Sci. 25(1): 30, 31; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 32, fig. 11 ♂ D.
Original Combination: *Euphydryas chalcadon* ab. *hemimelanica*

Type Locality: "Sulphur Mountain Springs, Ventura County, Calif." [California]

Types: "Holotype" in LACM.

- = ‡"*fusisecunda*" J. A. Comstock, 1926
Bull. South. Calif. Acad. Sci. 25(1): 30, 31;
figured by J. A. Comstock (1927), Butterflies
Calif.: pl. 32, fig. 12 ♂ D ("holotype").

Original Combination: *Euphydryas*
chalcedona ab. *fusisecunda*

Type Locality: "Mt. Wilson, Calif." [San
Bernardino County, California]

Types: "Holotype" in LACM.

713. ***Euphydryas colon*** (W. H. Edwards, 1881)

a. ***Euphydryas colon sperryi*** F. Chermock & R.
Chermock, 1945

Proc. Penn. Acad. Sci. 19: 39.

Original Combination: *Euphydryas colon sperryi*

Type Locality: "Bartle, California" [Lumber Camp,
Siskiyou County]

Types: Holotype probably in CMNH.

J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (72):
828, treated this as a subspecies-level taxon.

b. ***Euphydryas colon colon*** (W. H. Edwards, 1881)

Bull. Brooklyn Entomol. Soc. 3(9): 80, no. 8.

Redescribed by W. H. Edwards (1881), Papilio 1(4): 43,
45-46, no. 3.

Original Combination: *M[elitaea]. Colon*

Type Locality: "Mount Hood, Oregon"; suggested to be
"on the sides of the hills which line the banks of the
Columbia river, in W. Washington Territory and Oregon,
being especially common near Kalama" by Morrison
(1883), Papilio 3(2): 43, and "the bluffs of the Columbia
River, at Kalama, and other points in Western
Washington Territory" by Tepper (1883), Bull. Brooklyn
Entomol. Soc. 5(10): 81; defined as "Kalama, Cowlitz,
County, Washington" by F. Brown (1966), Trans. Am.
Entomol. Soc. 92(3): 361.

Types: Lectotype in CMNH, designated by F. M. Brown,
1966, Trans. amer. ent. Soc. 92(3): 363, fig. 1 ♂ D&V;
figured by W. Holland, 1898, Butterfly Book: pl. 16, fig. 5
♂ D. Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 2 ♂
D&V, figured a male "type" but that specimen was not
identified as a syntype by F. Brown (1966).

- = *perdiccas* (W. H. Edwards, 1881) (emended)
Bull. Brooklyn Entomol. Soc. 3(9): 80, no. 9;
redescribed by W. H. Edwards (1881), Papilio 1(4):
43, 44-45, no. 2.

Original Combination: *M[elitaea]. Perdiceas*

Type Locality: "Mt. Hood, Idaho"; suggested to be
"the small prairies numerous near Puget Sound,
Washington Territory. It was abundant near Tenino"
by Morrison (1883), Papilio 3(2): 43, and "the little
prairies, of which there are a good many in Western
Washington Territory, near the coast...Tenino near
prairies" by Tepper (1883), Bull. Brooklyn Entomol.
Soc. 5(10): 81; subsequently defined as "Tenino,
Thurston County, Washington" by F. Brown (1966),
Trans. Am. Entomol. Soc. 92(3): 364. All of these
Washington localities are in error, as there are no

historic or modern records of *E. colon* from the Puget Sound region. J. Shepard (2001), Butterflies B. C.: 308, suggested that the type locality be changed to "Kalama, Cowlitz Co., Wash." thereby making *perdiccas* a synonym of *colon*. I accept the type locality as that originally given, "Mt. Hood", which still renders the taxon a synonym of *E. c. colon* (see A. Warren (2005), Butterflies Ore.: 246). [Hood River-Clackamas counties, Oregon]

Types: Lectotype designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 366, fig. 2 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 57, figs. 2 ♂ D (lectotype), 3 ♂ D (paralectotype), and Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 2 ♂ D&V.

The spelling of this name was corrected to *perdiccas* by W. H. Edwards (1881), Bull. Brooklyn Entomol. Soc. 3(11): 97, footnote (Code Articles 33.5.1.1).

= ‡"mcdunnoughi" Gunder, 1928
Can. Entomol. 60(7): 163-164, pl. A, figs. 6 ♂ D, 6a ♂ V ("holotype").

Original Combination: *Euphydryas colon* tr. f. *mcdunnoughi*

Type Locality: "Corvallis, Oregon" [Benton County]

Types: "Holotype" in CNC.

This name was spelled "macdunnoughi" by dos Passos (1964), Mem. Lepid. Soc. (1): 86; an unjustified emendation.

= ‡"fenderi" Gunder, 1932
Pan-Pac. Entomol. 8(3): 125.

Original Combination: *Euphydryas chalcedona* race *colon* tr. f. *fenderi*

Type Locality: "near McMinnville, Yamhill County, Oregon"

Types: "Holotype" in AMNH.

= ‡"bakeri" Fender, 1945
Bull. Brooklyn Entomol. Soc. 40(2): 54.

Original Combination: *Euphydryas colon* ab. *bakeri*

Type Locality: "Elk Lake, Santiam Nat. Forest, Oregon" [Marion County]

Types: "Holotype" in Fender collection, possibly in OSAC or lost.

c. *Euphydryas colon svihlae* Pelham, 2008

J. Res. Lepid. 40: 167-168.

Original Combination: *Euphydryas colon svihlae*

Pelham adopted *Euphydryas chalcedona* race *perdiceas* tr. f. *svihlae* Gunder, 1932 to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= ‡"svihlae" Gunder, 1932
Pan-Pac. Entomol. 8(3): 126.

Original Combination: *Euphydryas chalcedona* race *perdiceas* tr. f. *svihlae*

Type Locality: "Hurricane Hill, Olympic Mountains, Washington" [Clallam County]

Types: "Holotype" in AMNH.

- d. **Euphydryas colon wallacensis** Gunder, 1928
Pan-Pac. Entomol. 5(2): 50, pl. 2, fig. C ♂ D&V (holotype), ♀ D&V; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 2 ♂ D&V.
Original Combination: *Euphydryas wallacensis*
Type Locality: "Wallace, Idaho" [Shoshone County]
Types: Holotype in AMNH.
= ‡"huellemanni" J. A. Comstock, 1926
Bull. South. Calif. Acad. Sci. 25(1): 32; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 33, fig. 5 ♂ D ("holotype").
Original Combination: *Euphydryas colon* ab. *huellemanni*
Type Locality: "Wallace, Idaho" [Shoshone County]
Types: "Holotype" in LACM.
= ‡"idahoensis" Gunder, 1929
Pan-Pac. Entomol. 6(1): 3.
Original Combination: *Euphydryas chalcedona* race *wallacensis* tr. f. *idahoensis*
Type Locality: "Wallace, Idaho" [Shoshone County]
Types: "Holotype" in AMNH.
- e. **Euphydryas colon nevadensis** Bauer, 1975
In: Howe, Butterflies N. Am.: 181, no. 3e, pl. 42, fig. 8 ♀ D, pl. 45, fig. 11 ♂ D&V (lectotype).
Original Combination: [*Euphydryas colon*] *nevadensis*
Type Locality: Not stated; lectotype from "Wildhorse Camp, ten miles south of Mountain City, Elko county, Nevada"
Types: Lectotype in Bauer collection, designated by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 167, note 529.
- f. **Euphydryas colon paradoxa** McDunnough, 1927
Can. Entomol. 59(7): 159, fig. 4 ♂ valve.
Original Combination: [*Euphydryas*] *perdiccas* race *paradoxa*
Type Locality: "Seton Lake, Lillooet, B. C." [British Columbia]
Types: Holotype (#2512) in CNC; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 2 ♂ D&V.
= ‡"nigrisupernipennis" Gunder, 1926
Entomol. News 37(1): 4, no. 5, pl. 1, fig. 5 ♂ D ("holotype").
Original Combination: *Euphydryas perdiccas* ab. ♂ *nigrisupernipennis*
Type Locality: "Chilcotin, British Columbia, Canada"
Types: "Holotype" in AMNH.
714. **Euphydryas anicia** (E. Doubleday, 1847)
anicia group Bauer, 1975
In: Howe, Butterflies N. Am.: 182.
- a. **Euphydryas anicia helvia** (Scudder, 1869)
Proc. Boston Soc. Nat. Hist. 12: 405.
Original Combination: *Melitaea Helvia*
Type Locality: "upper end of the Ramparts...cañons, commencing two hundred miles below Fort Yukon, where the river is narrow, deep and swift, running for one

hundred and fifty miles between high mountains" [Yukon River, Alaska]

Types: Type(s) destroyed in 1871 Chicago fire.

- b. **Euphydryas anicia anicia** (E. Doubleday, 1847)
In: Gen. diurn. Lepid. (1)(12): pl. 23, fig. 2 ♂ D; 1(21): 179, no. 6 (1848).

Original Combination: *Melitaea Anicia*

Type Locality: "Rocky Mountains, N. America"; defined as "Rock Lake, Alberta (53° 27'N, 118° 16'W)", by J. Shepard (1984), Quaest. Entomol. 20(1): 40-41.

Types: Lectotype (#45-136) in BMNH, designated by J. Shepard (1984), Quaest. Entomol. 20(1): 40-41; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 5 ♂ D&V.

= ♀"mayi" Gunder, 1932

Pan-Pac. Entomol. 8(3): 126-127.

Original Combination: *Euphydryas anicia* tr. f. *mayi*

Type Locality: "Banff, Alberta, Canada"

Types: Holotype in AMNH.

- c. **Euphydryas anicia howlandi** D. Stallings & Turner, 1947

Can. Entomol. 78(7/8): 137.

Original Combination: *Euphydryas anicia howlandi*

Type Locality: "Polaris, Montana" [Beaverhead County]

Types: Holotype in USNM.

eurytion group Bauer, 1975

In: Howe, Butterflies N. Am.: 184.

- d. **Euphydryas anicia hopfingeri** Gunder, 1934

Can. Entomol. 66(6): 128.

Original Combination: *Euphydryas anicia* race *hopfingeri*

Type Locality: "Black Canyon, Methow Valley, Okanogan Co., Washington"

Types: Holotype in AMNH.

= ♀"andersoni" (Gunder, 1934)

Can. Entomol. 66(6): 128-129.

Original Combination: *Euphydryas anicia hopfingeri* tr. f. *andersoni*

Type Locality: "Black Canyon, near Brewster, Okanogan Co., Washington"

Types: "Holotype" in AMNH.

- e. **Euphydryas anicia bakeri** D. Stallings & Turner, 1945
 J. Kansas Entomol. Soc. 18(2): 82.

Original Combination: *Euphydryas anicia bakeri*

Type Locality: "Cave Creek, Durkee, Oregon...Elevation 2640'" [Baker County]

Types: Holotype and allotype in PMNH.

- f. **Euphydryas anicia effi** D. Stallings & Turner, 1945
 J. Kansas Entomol. Soc. 18(2): 82-83.

Original Combination: *Euphydryas anicia effi*

Type Locality: "Corral Creek, Ketchum, Idaho...Elevation 6200' to 7500'" [Blaine County]

Types: Holotype and allotype in PMNH.

- g. **Euphydryas anicia windi** Gunder, 1932

Can. Entomol. 64(12): 283.

Original Combination: *Euphydryas anicia* race *windi*

Type Locality: "Timber Island, Teton Mts., Teton County, Wyoming"

- Types:** Holotype in AMNH.
- h. **Euphydryas anicia maria** (Skinner, 1899)
Can. Entomol. 31(1): 12.
Original Combination: *Melitaea Maria*
Type Locality: "Park City, Utah" [Summit County]
Types: Syntypes (#7018) in CMNH; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 6 ♂ D&V, and by W. Holland (1931), Butterfly Book (rev. ed.): pl. 56, fig. 10 ♂ V.
- = ‡"skinneri" Gunder, 1928
Can. Entomol. 60(7): 164-165, pl. A, figs. 9 ♂ D, 9a ♂ V ("holotype").
Original Combination: *Euphydryas maria* tr. f. *skinneri*
Type Locality: "Eureka, Utah" [Juab County]
Types: "Holotype" in USNM.
 - = ‡"spaldingi" Gunder, 1928
Can. Entomol. 60(7): 165, pl. A, figs. 10 ♀ D, 10a ♀ V ("holotype").
Original Combination: *Euphydryas maria* tr. f. *spaldingi*
Type Locality: "Stockton, Utah" [Tooele County]
Types: "Holotype" in USNM.
- i. **Euphydryas anicia brucei** (W. H. Edwards, 1888)
Can. Entomol. 20(5): 81-82, no. 1.
Original Combination: *M[elitaea]. Brucei*
Type Locality: "only on high mountain tops (in Colorado)...on the Snowy range at not lower than 12,000 feet...Montana, Washington Terr., and British America, in the Rocky Mts."; defined as "above treeline at the head of Hall Valley, Park County, Colorado" or "Whale Mine, Hall Valley, Park County, Colorado" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 366-367.
Types: Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 368, fig. 3 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 59, fig. 3 ♂ D (lectotype), 4 ♀ D (paralectotype).
- = ‡"melanodisca" (J. A. Comstock, 1918)
Lepidopterist 2(5): 34-35, pl. 6, figs. 1 ♂ D, 3 ♂ V ("holotype").
Original Combination: [*Melitaea anicia anicia*] *Melanodisca* aberr. nov.
Type Locality: "Hall Valley, Colorado, at an elevation of about 10,000 feet" [Park County]
Types: "Holotype" in LACM.
- j. **Euphydryas anicia eurytion** (Mead, 1875)
Rep. Coll. diurn. Lepid. 5(Zool.): 759.
Original Combination: *Melitaea Eurytion*
Type Locality: "Colorado"; defined as "Twin Lakes, California Gulch, Fairplay and probably Kenosha. Probably not at Turkey Creek Junction", by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 160; suggested to be "South Park, Park Co., Colorado" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 164; subsequently defined as "South Park, probably near Fairplay, Park Co., Colo." by Scott *et al.* (2006), Papilio (n.s.) 12: 31.
Types: Syntypes in CMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 57, figs. 15 ♂ D, 16

♀ D, and Scott *et al.* (2006), Papilio (n.s.) 12: pl. 5, 1st row ♂ D&V, 2nd row ♀ D&V.

= *carolae* T. Emmel & L. N. Harris, 1998
Syst. W. N. Am. Butterflies (32): 433-434, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Euphydryas anicia carolae*

Type Locality: "Colorado: Park County, 1.3 miles south of Fairplay, 9860 ft. elevation, 2.1 miles west of jct. of Hwy. 285 and National Forest access Fourmile Creek Road, on (north side) Fourmile Creek Road which starts 0.3 miles south of Hwy. 285 x Hwy. 9 jct."

Types: Holotype in MGCL.

= ‡"rubrolimbata" (J. A. Comstock, 1918)
Lepidopterist 2(5): 36-37, pl. 6, fig. 4 ♂ V ("holotype").

Original Combination: [*Melitaea anicia capella*] *Rubrolimbata* aberr. nov.

Type Locality: "South Park, Colorado" [Park County]

Types: "Holotype" in LACM.

k. *Euphydryas anicia wecoeut* M. Fisher, Spomer & Scott, 2006

Papilio (n.s.) 12: 31-32, pl. 5, 4th row left, center ♂ D&V (holotype), 5th row left ♀ D&V.

Original Combination: *Euphydryas anicia wecoeut*

Type Locality: "Coal Mine Point, Black Ridge, 7500', Mesa Co., Colo." [Colorado]

Types: Holotype in CSUC.

l. *Euphydryas anicia alena* W. Barnes & Benjamin, 1926
Bull. South. Calif. Acad. Sci. 25(3): 93, no. 219.1.

Original Combination: *Euphydryas alena*

Type Locality: "So. Utah"; suggested to be "summit Brian Head, Iron Co. Utah" by Scott (2006), Papilio (n.s.) 12: 31.

Types: Holotype in USNM; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 7 ♂ D&V, and Scott (2006), Papilio (n.s.) 12: pl. 5; paratypes figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 57, figs. 20 ♂ D, 21 ♀ D.

m. *Euphydryas anicia magdalena* W. Barnes & McDunnough, 1918

Contr. Nat. Hist. Lepid. N. Am. 4(2): 71-72, pl. 11, figs. 1 ♂ D (holotype), 2 ♂ V, 3 ♂ V, 4 ♀ D.

Original Combination: *Euphydryas magdalena*

Type Locality: "White Mtns., Ariz." [Arizona]

Types: Holotype in USNM; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 7 ♂ D&V, and Scott (2006), Papilio (n.s.) 12: pl. 5; paratypes figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 56, figs. 23 ♂ D, 24 ♀ D.

n. *Euphydryas anicia hermosa* (W. G. Wright, 1905)
Butterflies W. Coast: 55, no. 179; 157-158, no. 179, pl. 19, figs. 179 ♂ D (lectotype), 179b ♀ D, 179c ♀ V.

Original Combination: [*Melitaea*] *Hermosa*; *Melitaea Hermosa* n. s.

Type Locality: "Southern Arizona"

Types: Lectotype (#4298) in CAS, designated by Tilden (1985), Occ. Pap. Calif. Acad. Sci. (118): 21; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 8 ♂ D&V.

= ‡"duncani" Gunder, 1934
Can. Entomol. 66(6): 129.

Original Combination: *Euphydryas anicia wheeleri* tr. f. *duncani*

Type Locality: "Santa Catalina Mts., Arizona" [Pima County]

Types: "Holotype" in AMNH.

Austin (1981), J. Res. Lepid. 19(4): 243, placed this taxon here.

capella group Ferris & R. Holland, 1980

Bull. Allyn Mus. (57): 1.

o. Euphydryas anicia chuskae (Ferris & R. Holland, 1980)
Bull. Allyn Mus. (57): 2-3, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Occidryas anicia chuskae*

Type Locality: "open clearings along an Indian [sic!] Reservation road, 3-5 miles above (NNW) Toadlena, Chuska Mtns., ca. 7700" (2348m), San Juan Co., New Mexico"

Types: Holotype in MGCL.

p. Euphydryas anicia carmentis W. Barnes & Benjamin, 1926

Bull. South. Calif. Acad. Sci. 25(3): 93, no. 220.1.

Original Combination: *Euphydryas carmentis*

Type Locality: "Pagosa Springs, Colo." [Archuleta County, Colorado]

Types: Holotype in USNM; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 7 ♂ D&V; paratypes figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 56, figs. 20 ♂ D, 21 ♀ D.

= ‡"charlotteae" Gunder, 1928
Can. Entomol. 60(7): 165, pl. B, figs. 11 ♀ D, 11a ♀ V ("holotype").

Original Combination: *Euphydryas carmentis* tr. f. *charlotteae*

Type Locality: "Pagosa Springs, Archuleta Co., Colorado"

Types: "Holotype" in USNM.

q. Euphydryas anicia cloudcrofti (Ferris & R. Holland, 1980)

Bull. Allyn Mus. (57): 3, 5, 7, 8, figs. 15 ♂ D, 16 ♂ V (holotype); 17 ♀ D, 18 ♀ V.

Original Combination: *Occidryas anicia cloudcrofti*

Type Locality: "Pines Campground, 2 mi NE of Cloudcroft, Sacramento [sic!] Mtns., 8600' (2623m), Otero Co., New Mexico" [Sacramento Mountains]

Types: Holotype in MGCL.

r. Euphydryas anicia capella (W. Barnes, 1897)

Can. Entomol. 29(2): 41.

Original Combination: *Melitaea nubigena*, var. *capella*

Type Locality: "Around Manitou and Denver"; defined as "Manitou Springs, El Paso Co., Colorado" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 164.

Types: Syntypes in USNM; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 6 ♂ D&V, and by W. Holland

(1931), Butterfly Book (rev. ed.): pl. 57, figs. 18 ♂ D, 19 ♀ D.

= ‡"oslari" Gunder, 1925
Entomol. News 36(7): 196-197, no. 7, pl. 5, fig. 7 ♂ D ("holotype").

Original Combination: *Euphydryas anicia* var. *capella* ab. ♂ *oslari*

Type Locality: "Platte Canyon, Colorado" [Jefferson-Douglas counties]

Types: "Holotype" in AMNH.

bernadetta group Bauer, 1975

In: Howe, Butterflies N. Am.: 186-187.

s. *Euphydryas anicia bernadetta* Leussler, 1920

Entomol. News 31(4): 102-103.

Original Combination: *Euphydryas bernadetta*

Type Locality: "Monroe Canyon, near Harrison, Sioux County, Nebraska"

Types: Syntypes in OSU; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 6 ♂ D&V, and W. Holland (1931), Butterfly Book (rev. ed.): pl. 57, fig. 14 ♂ D.

The treatment of *bernadetta* as a species-level taxon (e.g., Kohler and Kondla (2006), Papilio (n.s.) 12: 30, and Scott (2006), Papilio (n.s.) 12: 30, 32-35) is premature and not well supported; a detailed investigation is needed.

= *rorina* J. Scott & M. Fisher, 2008

Papilio (n.s.) 18: 32, pl 3, top row left ♂ D, top row right ♂ V (holotype), second row left ♀ D, second row right ♀ V.

Original Combination: *Euphydryas bernadetta rorina*

Type Locality: "Beaver Creek, 3 air mi. SSW Hot Sulfer Springs, Grand Co. Colo." [Colorado]

Types: Holotype in CSUC.

= ‡"leussleri" Gunder, 1927

Entomol. News 38(5): 136, no. 8, pl. 2, fig. 8 ♂ D ("holotype").

Original Combination: *Euphydryas bernadetta leussleri* ♂ nov. tr. form

Type Locality: "near Harrison, Sioux County, Nebraska"

Types: "Holotype" in OSU.

= ‡"belli" Gunder, 1929

Pan-Pac. Entomol. 6(1): 4-5.

Original Combination: *Euphydryas anicia* race *bernadetta* tr. f. *belli*

Type Locality: "Harrison, Sioux Co., Nebraska"

Types: "Holotype" in AMNH.

t. *Euphydryas anicia veazieae* Fender & Jewett, 1953

Wasmann J. Biol. 11(1): 117-119.

Original Combination: *Euphydryas anicia veazieae*

Type Locality: "Jackass Mountains, Harney County, Oregon"

Types: Syntypes in Fender and Jewett collections, possibly in OSAC or lost; figured by Howe (1975), Butterflies N. Am.: pl. 39, figs. 15 ♂ D&V, 18 ♀ D.

= *wenatchee* Scott, 2006

Papilio (n.s.) 12: 30, pl. 4, 4th row center ♂ D&V (holotype)

Original Combination: *Euphydryas bernadetta wenatchee*

Type Locality: "8 mi N Kittitas, 1/4 mi above Colockum Pass Road, ~1000' altitude, Kittitas Co., Wash., a rocky ridge under powerlines in sage-steppe above Ponderosa Pine belt" [Washington]

Types: Holotype in BMNH.

- u. **Euphydryas anicia macyi** Fender & Jewett, 1953
Wasmann J. Biol. 11(1): 115-117.

Original Combination: *Euphydryas anicia macyi*

Type Locality: "Wildhorse Creek, Alvord Basin, Harney County, Oregon"

Types: Holotype in Fender collection, possibly in OSAC or lost.

wheeleri group Bauer, 1975

In: Howe, Butterflies N. Am.: 188.

- v. **Euphydryas anicia wheeleri** (Hy. Edwards, 1881)
Papilio 1(4): 52-53.

Original Combination: *Melitaea wheeleri* n. var [of *anicia*]

Type Locality: "Southern Nevada"; defined as "mouth of Meadow Canyon, Toquima Range, Nye County, Nevada" by Austin (1998), Syst. W. N. Am. Butterflies (50): 635.

Types: Lectotype in AMNH, designated by Austin (1998), Syst. W. N. Am. Butterflies (50): 635; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 8 ♂ D&V.

- w. **Euphydryas anicia morandi** Gunder, 1928
Entomol. News 39(10): 304-305, pl. 14, figs. A ♂ D (holotype), AA ♀ D, ♂&♀ V figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 8 ♂ D&V.

Original Combination: *Euphydryas morandi*

Type Locality: "Kyle Canyon only at 10,500 to 11,000 feet on Mt. Charleston Peak in Spring Mountain, Clark County, Nevada"

Types: Holotype in AMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 57, fig. 22 ♂ D (holotype), 23 ♀ D (paralectotype), and by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 8 ♂ D&V.

- x. **Euphydryas anicia variicolor** Baughman & Murphy, 1998

Syst. W. N. Am. Butterflies (29): 400-401, fig. 9 ♂ D (holotype).

Original Combination: *Euphydryas chalcidona variicolor*

Type Locality: "California, Mono Co., ridge south of Sonora Pass in the Sierra Nevada, 9600 feet"

Types: Holotype in LACM.

This taxon was placed here by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (72): 828.

Subtribe **New Subtribe** ,

This will be described by Wahlberg *et al.* (*in prep.*).

Genus **Poladryas** Bauer, 1961

In: P. Ehrlich and A. Ehrlich, How Know Butterflies: 109, 130. Type-species: *Melitaea pola* Boisduval, 1869, Annls. Soc. Entomol. Belg. 12: 56, no. 44, by original designation. Bauer misidentified *Melitaea arachne* W. H. Edwards, 1869, Trans. Am. Entomol. Soc. 2(4): 372, as *pola*, as determined by F. Brown (1965), J. Lepid. Soc. 19(4): 206-207, fig. 2, and J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 32, figs. 243 ♂ D, 244 ♂ V. This is a case of a misidentified type species. The type-species is *Melitaea arachne* W. H. Edwards, 1869, as designated by Pelham (2008), J. Res. Lepid. 40: 370 (under Code Article 70.3).

715. **Poladryas minuta** (W. H. Edwards, 1861)
 a. **Poladryas minuta minuta** (W. H. Edwards, 1861)
 Proc. Acad. Nat. Sci. Philad. 13(6): 160, 161, no. 2.
Original Combination: *Melitaea minuta*
Type Locality: "Texas"; neotype from "Comfort, Texas."
 [Kendall County]
Types: Type(s) lost; neotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 417, fig. 20, ♂ D&V; figured by Mead (1875), Rep. Coll. diurn. Lepid. 5(Zool.): pl. 36, figs. 1 ♂ D, 2 ♂ V, and W. Holland (1931), Butterfly Book (rev. ed.): pl. 58, fig. 12 ♂ V.
 = *approximata* (Strecker, 1900)
 Lepid. Rhop. Het. (suppl. 3): 23.
Original Combination: *Melitaea Approximata*
Type Locality: "Texas"
Types: Syntypes in FMNH.
716. **Poladryas arachne** (W. H. Edwards, 1869)
 a. **Poladryas arachne arachne** (W. H. Edwards, 1869)
 Trans. Am. Entomol. Soc. 2(4): 372.
Original Combination: *Melitaea Arachne*
Type Locality: "Colorado"; defined as "vicinity of Golden, Jefferson County, Colorado" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 411.
Types: Holotype in FMNH, figured by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 412, fig. 19 ♂ D&V.
 = ‡"gunderiae" (W. Holland, 1930)
 Ann. Carnegie Mus. 19(3): 156; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 58, fig. 10 ♀ D ("holotype").
Original Combination: *Melitaea arachne* ab. *gunderiae*
Type Locality: Not stated; suggested to be "Colorado" by W. Holland (1931), Butterfly Book (rev. ed.): 128.
Types: "Holotype" in CMNH.
- b. **Poladryas arachne gilensis** (W. Holland, 1930)
 Ann. Carnegie Mus. 19(3): 156; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 58, fig. 18 ♀ D (holotype, not ♂ as stated).
Original Combination: *Melitaea gilensis*
Type Locality: "Wheeler Expedition...Ft. Gila...southern Arizona"; defined as "Along the west fork of the Gila River in Catron Co., New Mexico" by Ferris (1989), Mem. Lepid. Soc. (3): 42.
Types: Holotype in CMNH.
- c. **Poladryas arachne expedita** Austin, 1998
 Syst. W. N. Am. Butterflies (46): 575-576, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.
Original Combination: *Poladryas arachne expedita*

Type Locality: "Nevada: Clark County; Spring Mountains, Nevada State Route 160, 1.0 road mile west of Mountain Springs Summit, 1800 m, T22S R58E S19 on USGS Mt. Springs, Nev. 15' quadrangle"

Types: Holotype in MGCL.

- d. **Poladryas arachne nympha** (W. H. Edwards, 1884)
Papilio 4(3): 53-54.

Original Combination: *Melitaea Nympha*

Type Locality: "southern Arizona"; defined as "vicinity of Fort Grant, Graham County, Arizona" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 418.

Types: Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 419, fig. 21 ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 16, fig. 21 ♂ D.

Austin (1998), Syst. W. N. Am. Butterflies (46): 576, determined this arrangement.

- = ‡"skinneri" (Oberthür, 1923)
Étud. Lépid. Comp. 20: 303, pl. 564, fig. 4859 ♂ D&V ("holotype").

Original Combination: *Melitaea*

Arachne Aberr. *Skinneri*

Type Locality: "Fort Wingate" [McKinley County, New Mexico]

Types: "Holotype" in USNM.

- = ‡"polingi" (Gunder, 1926)
Entomol. News 37(1): 2-3, no. 2, pl. 1, fig. 2 ♂ D ("holotype").

Original Combination: *Melitaea*

pola var. *arachne* ab. ♂ *polingi*

Type Locality: "White Mts., Arizona"

Types: "Holotype" in AMNH.

- e. **Poladryas arachne monache** (J. A. Comstock, 1918)
Lepidopterist 2(9/10): 71-73; (11) figs. 1 ♀ D, 2 ♀ D, 3 ♀ V; figured by Comstock (1927), Butterflies Calif.: pl. 38, figs. 11 ♀ D, 12 ♀ V.

Original Combination: *Melitaea monache*

Type Locality: "8500 to 9000 feet elevation, in the Monache Meadows of Tulare County, California"

Types: Syntypes in LACM.

Genus **Chlosyne** Butler, 1870

Cist. Entomol. 1(3): 38, no. 37. Type-species: *Papilio janaïs* Drury, 1782, Ill. Nat. Hist., 3: 22, index, pl. 17, figs. 5, 6, as replacement name. Proposed to replace *Synchlœ* E. Doubleday, 1844, preoccupied (Code Articles 60.3, 67.8). The synonymy for this genus follows Wahlberg and Zimmerman (2000), Cladistics 16(4): 347-363.

- = ‡*Morpheis* Geyer, [1833]
In: Hübner, Samml. exot. Schmett. 3: pl [5], figs. 1-4. Type-species: *Morpheis ehrenbergii* Geyer, [1833], *in:* Hübner, Samml. exot. Schmett., 3: pl [5], figs. 1-4, by monotypy. Preoccupied by *Morpheis* Hübner, [1820], Verz. bekannt. Schmett. (13): 196.
- = ‡*Synchlœ* E. Doubleday, [1845]
List Spec. Lepid. Brit. Mus. 1: 76. Type-species: *Papilio janaïs* Drury, 1782, Ill. Nat. Hist. 3: 22, index, pl. 17, figs. 5, 6, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 141, no. 253. Preoccupied

- by *Synchlœ* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: 26.
- = ‡*Coatlantona* W. F. Kirby, 1871
Syn. Cat. diurn. Lepid.: 178. Type-species: *Papilio janais* Drury, 1782, Ill. Nat. Hist. 3: 22, index, pl. 17, figs. 5, 6, as replacement name. Proposed to replace *Synchlœ* E. Doubleday, 1844, preoccupied (Code Articles 60.3, 67.8). A junior objective synonym of *Chlosyne* Butler, 1870.
- = *Anemeca* W. F. Kirby, 1871
Syn. Cat. diurn. Lepid.: 179. Type-species: *Morpheis ehrenbergii* Geyer, [1833], in: Hübner, Samml. exot. Schmett. 3: pl [5], figs. 1-4, as replacement name. Proposed to replace *Morpheis* Geyer, [1833], in: Hübner, Samml. exot. Schmett. 3: pl [5], figs. 1-4, preoccupied (Code Articles 60.3, 67.8).
- = *Charidryas* Scudder, 1872
4th Ann. Rept. Peabody Acad. Sci. (1871): 47. Type-species: *Melitaea nycteis* E. Doubleday, 1847, in: Gen. diurn. Lepid. (1)(12): pl. 23, fig. 3; (21): 181, no. 23 (1848), by original designation.
- = ‡*Limnaecia* Scudder, 1872
4th Ann. Rept. Peabody Acad. Sci. (1871): 47. Type-species: *Melitaea harrisii* Scudder, 1863, Proc. Essex Inst. 3: 167-168, no. 36, by original designation. Preoccupied by *Limnaecia* Stainton, 1851, Suppl. Cat. Brit. Pteroph.: 4.
- = *Thessalia* Scudder, 1875
Bull. Buffalo Soc. Nat. Sci. 2(4): 238, 265, no. 49. Type-species: *Melitaea leanira* C. Felder & R. Felder, 1860, Wien. Entomol. Montaschr. 4(4): 106, no. 64, by original designation.
- 717. Chlosyne janais** (Drury, 1782)
a. Chlosyne janais janais (Drury, 1782)
Ill. Nat. Hist. 3: 22, index, pl. 17, figs. 5 ♂ D, 6 ♂ V.
Original Combination: *Papilio Janais*
Type Locality: "Sierra Leone" in error.
Types: Type(s) lost.
- 718. Chlosyne definitiva** (E. Aaron, 1885)
a. Chlosyne definitiva definitiva (E. Aaron, 1885)
Papilio 4(9/10): 176-177.
Original Combination: *Melitaea Definita*
Type Locality: "Inland from Corpus Christi" [Nueces County, Texas]
Types: Syntypes in CMNH, FMNH and (#7755) in ANSP; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 56, figs. 14 ♂ D, 15 ♂ V.
As first revisers, W. Barnes and McDunnough (1917), Check List Lepid. Bor. Am.: 9, no. 239, gave *definita* priority over *albiplaga*.
= *albiplaga* (E. Aaron, 1885)
Papilio 4(9/10): 175-176.
Original Combination: *Melitaea Albiplaga*
Type Locality: "Gulf region near Corpus Christi" [Nueces County, Texas]
Types: Holotype (#7756) in ANSP.
= *schausi* (Godman & Salvin, 1901)
Biol. centr.-amer., Lepid. Rhop. 2(163): 676-677, no. 4; 3(166): pl. 108, figs. 11 ♂ D, 12 ♂ V (holotype).
Original Combination: *Melitaea schausi*

- Type Locality:** "Mexico, Paso de San Juan in Vera Cruz" [Veracruz]
Types: Holotype in BMNH.
- b. *Chlosyne definitiva anastasia*** (Hemming, 1934)
 Stylops 3(9): 193.
Original Combination: *Melitaea anastasia*
 Proposed to replace *Melitaea beckeri* Godman & Salvin, 1901, with the same data (Code Article 60.3).
 = ~~*beckeri*~~ (Godman & Salvin, 1901)
 Biol. centr.-amer., Lepid. Rhop. 2(163): 676, no. 3; 3(166): pl. 108, figs. 9 ♂ D, 10 ♂ V (holotype).
Original Combination: *Melitaea beckeri*
Type Locality: "Mexico, Durango city"
 [Durango]
Types: Holotype in BMNH.
 Preoccupied by *Melitaea artemis* var. *beckeri* Herrich-Schäffer, 1851, Syst. Bearb. Schmett. Europ. 6: 1.
- *719. *Chlosyne endeis*** (Godman & Salvin, 1894)
 Ann. Mag. Nat. Hist. (6)14(80): 97, no. 5; figured by Godman and Salvin (1901), Biol. centr.-amer., Lepid. Rhop. 3(166): pl. 108, figs. 5 ♂ D, 6 ♂ V.
Original Combination: *Synchloë endeis*
Type Locality: "Sierra Madre de Tepic, Western Mexico"
 [Nayarit]
Types: Holotype in BMNH.
 = ~~*pardelina*~~ Higgins, 1960
 Trans. R. Entomol. Soc. Lond. 112(14): 420.
Original Combination: *Chlosyne endeis* form *pardelina*
Type Locality: "La Gloria, S of Monclova, Coahuila, Mexico, 3300"
Types: "Holotype" in AMNH.
- 720. *Chlosyne melitaeoides*** (C. Felder & R. Felder, 1867)
 Reise Novara Zool. (3): 396, no. 586.
Original Combination: *Synchloe Melitaeoides*
Type Locality: "Mexico"
Types: Holotype in BMNH.
 R. Kendall and McGuire (1984), Bull. Allyn Mus. (86): 28-29, figs. 28, 29, ♂ & ♀, D & V, detailed the occurrence of this taxon in Texas.
- 721. *Chlosyne eumeda*** (Godman & Salvin, 1894)
 Ann. Mag. Nat. Hist. (6)14(80): 96, no. 2; figured by Godman and Salvin (1901), Biol. centr.-amer., Lepid. Rhop. 3(166): pl. 108, figs. 1 ♂ D, 2 ♂ V.
Original Combination: *Synchloë eumeda*
Type Locality: "Mochitlan in the State of Guerrero, Western Mexico"
Types: Lectotype in BMNH, designated by Lamas (1999), Revta Peru Entomol. 41: 41.
 = *dryope* (Godman & Salvin, 1894)
 Ann. Mag. Nat. Hist. (6)14(80): 96-97, no. 2; figured by Godman and Salvin (1901), Biol. centr.-amer., Lepid. Rhop. 3(166): pl. 108, figs. 3 ♂ D, 4 ♂ V (holotype).
Original Combination: *Synchloë dryope*
Type Locality: "State of Jalisco, Western Mexico"
Types: Holotype in BMNH.
 = *fasciata* Röber, 1914

In: Seitz, Grossschmett. Erde 5(187): pl. 91g, fig. [5] ♂
D; (192): 452.

Original Combination: *Chlosyne fasciata*

Type Locality: "Mexico (Guerrero)"

Types: Lectotype in BMNH, designated by Lamas (1999), Revta Peru Entomol. 41: 41.

***722. Chlosyne rosita** A. Hall, 1924

Entomol. 57(738): 241, no. 1, figs. 2 ♂ D, 3 ♂ V, 4 ♀ V.

Original Combination: *Chlosyne rosita*

Type Locality: "Western Guatemala, Moran, 3700 ft....Palin, 3500 ft....Escuintla, 2000 ft."

Types: Holotype in BMNH.

a. Chlosyne rosita browni Bauer, 1960

J. Lepid. Soc. 14(2): 150-151, figs. 1a, 1b ♀ D&V, 2a, 2b ♂ D&V (holotype).

Original Combination: *Chlosyne rosita browni*

Type Locality: "El Salto, 1,600 feet elevation, San Luis Potosi, Mexico"

Types: Holotype in PMNH.

b. Chlosyne rosita montana A. Hall, 1924

Entomol. 57(738): 241-242, no. 2, figs. 1 ♂ D.

Original Combination: *Chlosyne lacinia montana*

Type Locality: "Mexico, Mt. Popocatepetl, 10,000 ft." [Mt. Popocatepetl, Mexico/Puebla states]

Types: Holotype in BMNH.

***723. Chlosyne theona** (Ménétriés, 1855)

Enum. corp. anim. (1): 86-87, no. 444, pl. 2, fig. 5 ♂ D&V.

Original Combination: *Melitaea theona*

Type Locality: "Nicaragua"

Types: Type(s) possibly lost; Austin and M. Smith (1998), Syst. W. N. Am. Butterflies (28): 360, determined that there are no syntypes at ZIN.

a. Chlosyne theona thekla (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(2): 189, 191, no. 4.

Original Combination: *Melitaea Thekla*

Type Locality: "Southern California"; corrected to "vicinity of old Fort Lowell, near Tucson, Pima Co., Arizona" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 392-394.

Types: Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 395, fig. 13 ♂ D&V.

= ‡"benjamini" (Gunder, 1928)

Can. Entomol. 60(7): 166, pl. B, figs. 15 ♂ D, 15a ♂ V ("holotype").

Original Combination: *Melitaea (Lemonias) theona* race *thekla* tr. f. *benjamini*

Type Locality: "So. Arizona"

Types: "Holotype" in AMNH.

b. Chlosyne theona bollii (W. H. Edwards, 1877)

Field & Forest 3(6): 101-102.

Original Combination: *Melitaea Bollii*

Type Locality: "San Antonio, Texas" [Bexar County]

Types: Holotype (#7757) in CMNH, figured by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 397, fig. 13 ♂ D&V.

c. Chlosyne theona chinatiensis (Tinkham, 1944)



Can. Entomol. 76(1): 12-13, no. 8, fig. 1 ♂ (left half) V, (right half) D (holotype), 2 (left half) V, (right half) D.

Original Combination: *Melitaea chinatiensis*

Type Locality: "Chinati Mountains, 4500 feet elevation, Presidio Co., Texas"

Types: Holotype lost or destroyed; neotype in CAS, designated (as lectotype) by Austin and M. Smith (1998), Syst. W. N. Am. Butterflies (28): 369 (Code Article 72.4.5).

There is considerable reason to consider this a distinct species from *theona*. More investigation is required.

724. Chlosyne cyneas (Godman & Salvin, 1878)

Proc. Zool. Soc. Lond. 1878(1): 269, no. 12; figured by Godman and Salvin (1882), Biol. centr.-amer., Lepid. Rhop. 3(21): pl. 21, figs. 10 ♂ D, 11 ♂ V.

Original Combination: *Phyciodes cyneas*

Type Locality: "Mexico, mountains of Oaxaca"

Types: Holotype in BMNH.

= ‡"infrequens" (Gunder, 1928)

Can. Entomol. 60(7): 166, pl. B, figs. 14 ♂ D, 14a ♂ V ("holotype").

Original Combination: *Melitaea (Lemonias)*

cyneas tr. f. *infrequens*

Type Locality: "Huachuca Mts., Ariz." [Cochise County, Arizona]

Types: "Holotype" in AMNH.

725. Chlosyne fulvia (W. H. Edwards, 1879)

a. Chlosyne fulvia fulvia (W. H. Edwards, 1879)

Can. Entomol. 11(6): 117-118.

Original Combination: *Melitaea Fulvia*

Type Locality: "Western Texas"; defined as "grasslands adjacent to the Wichita River...Archer County, Texas" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 390-391.

Types: Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 391, fig. 12 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): 131, pl. 59, fig. 6 ♂ V.

= ‡"sinefascia" (R. Williams, 1914)

Entomol. News 25(6): 265, no. 6.

Original Combination: *Melitaea fulvia*
sinefascia n. aberr.

Type Locality: "Jamez [sic!] Mountains, New Mexico" implied from the title of the paper.

[Jemez Mountains, Sandoval County]

Types: "Holotype" (#7167) in CMNH.

b. Chlosyne fulvia pariaensis (M. Smith & Brock, 1988)

Bull. Allyn Mus. (118): 10-12, figs. 15 ♂ D, 16 ♀ D, 29 ♂ D, 30 ♀ D, 31 ♂ V.

Original Combination: *Thessalia fulvia pariaensis*

Type Locality: "Utah, Kane County, the Cockscomb Ridge, ca. 61 road km east of Kanab"

Types: Holotype in LACM.

c. Chlosyne fulvia coronado (M. Smith & Brock, 1988)

Bull. Allyn Mus. (118): 6-8, figs. 13 ♂ D, 14 ♀ D.

Original Combination: *Thessalia fulvia coronado*

Type Locality: "Arizona: Pima County, summit of Redington Pass, 20 km ENE of Tucson, Santa Catalina Mts."

Types: Holotype in LACM.

726. **Chlosyne leanira** (C. Felder & R. Felder, 1860)

a. **Chlosyne leanira oregonensis** Bauer, 1975

In: Howe, Butterflies N. Am.: 166-167, no. 16a, pl. 40, fig. 17 ♀ D&V (holotype).

Original Combination: [*Chlosyne* (*Thessalia*) *leanira*] *oregonensis*

Type Locality: Not specifically stated; holotype from "Mt. Ashland, Loop Road, Jackson Co., Ore." [Oregon]

Types: Holotype in LACM.

b. **Chlosyne leanira leanira** (C. Felder & R. Felder, 1860)
Wien. Entomol. Montaschr. 4(4): 106, no. 64; figured by C. Felder and R. Felder (1867), Reise Novara Zool. (3): pl. 50, figs. 13 ♂ D, 14 ♂ V.

Original Combination: *Melitaea Leanira*

Type Locality: "Californien"; suggested to be "vic. San Francisco, California" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 153; corrected to "Hwy 70 at Chambers Creek, North Fork Feather River Canyon, 1850' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (5): 89.

Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (5): 89, figs. 13 ♂ D, 14 ♂ V.

= *daviesi* (Wind, 1947)

Pan-Pac. Entomol. 23(4): 171.

Original Combination: *Melitaea leanira daviesi*

Type Locality: "Strawberry Lake, Tuolumne County, California, el. 5500 ft."

Types: Holotype in CAS.

c. **Chlosyne leanira obsoleta** (Hy. Edwards, 1877) †

Proc. Calif. Acad. Sci. [1]7(13): 171.

Original Combination: *Melitaea Leanira* Var. *Obsoleta*

Type Locality: "Near San Rafael, in Marin County" [California]

Types: Lectotype in AMNH, designated by Austin and M. Smith (1998), Syst. W. N. Am. Butterflies (26): 336.

= *leona* (W. G. Wright, 1905)

Butterflies W. Coast: 55, no. 186; 160, no. 186, pl. 20, figs. 186, 186b ♀ D&V (holotype).

Original Combination: [*Melitaea*] *Leona*; *Melitaea Leona* n. v.

Type Locality: "Southern California" "San Rafael, Cali." [Marin County]

Types: Holotype (#4305) in CAS.

d. **Chlosyne leanira nebularum** (Austin & M. Smith, 1998)
Syst. W. N. Am. Butterflies (26): 335, figs. 7 ♂ D, 15 ♂ V (holotype); 8 ♀ D, 16 ♀ V.

Original Combination: *Thessalia leanira nebularum*

Type Locality: "California: Santa Cruz County; Highland Way, 3 to 4 road miles southeast of the Soquel to San Jose road"

Types: Holotype in MGCL.

e. **Chlosyne leanira elegans** (Priestaf & J. Emmel, 1998)

Syst. W. N. Am. Butterflies (26): 327-328, 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Thessalia leanira elegans*

Type Locality: "California: San Luis Obispo County; Oso Flaco Sand Dunes, in the vicinity of Oso Flaco Lake"

Types: Holotype in LACM.

- f. **Chlosyne leanira wrightii** (W. H. Edwards, 1886)
Can. Entomol. 18(4): 64-65, no. 3.

Original Combination: *Melitaea Wrightii*

Type Locality: "San Bernardino" [San Bernardino County, California]

Types: Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 389, fig. 11 ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 17, figs. 9 ♂ D (lectotype), 10 ♀ V (paralectotype).

= *cerrita* (W. G. Wright, 1905)

Butterflies W. Coast: 55, no. 189; 161, no. 189, pl. 20, figs. 189, 189a ♂ D&V (lectotype), 189b ♀ V.

Original Combination: [*Melitaea*] *Cerrita*; *Melitaea Cerrita* n. s.

Type Locality: "Southern California"; suggested to be "edge of Mojave Desert" by Bauer (1975), *in*: Howe, Butterflies N. Am.: 168.

Types: Lectotype (#4306) in CAS, designated by Tilden (1985), Occ. Pap. Calif. Acad. Sci. (118): 22. Austin and Murphy [1989], J. Res. Lepid. 26(1-4): 280-281, determined this synonymy.

= *pelona* (Gunder, 1930)

Bull. South. Calif. Acad. Sci. 29(2): 61, no. 71.

Original Combination: *Melitaea wrightii* form *pelona*

Type Locality: "Mint Canyon" [Sierra Pelona Valley, Los Angeles County, California]

Types: Holotype possibly in LACM; figured by Comstock (1927), Butterflies Calif.: pl. 39, fig. 16 ♀ V.

= ‡"carolynae" (Gunder, 1926)

Entomol. News 37(1): 3, no. 3, pl. 1, fig. 3 ♂ D ("holotype").

Original Combination: *Melitaea wrighti* ab. ♂ *carolynae*

Type Locality: "Mint Canyon, Los Angeles County, California" [Sierra Pelona Valley]

Types: "Holotype" in AMNH.

- g. **Chlosyne leanira alma** (Strecker, [1878])

Lepid. Rhop. Het. (15): 135, pl. 15 ♂ D&V.

Original Combination: *Melitaea Alma*

Type Locality: "Arizona...S. Utah"; defined as "vic. St. George, Washington Co., Utah" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 153; redefined as "northwestern Mohave County" by Austin and M. Smith (1998), Syst. W. N. Am. Butterflies (27): 340. Lectotype is labeled "Arizona."

Types: Lectotype in FMNH, designated by Austin and M. Smith (1998), Syst. W. N. Am. Butterflies (27): 340.

= ‡"koebelei" (Gunder, 1927)

Entomol. News 38(5): 136, no. 7, pl. 2, fig. 7 ♀ V ("holotype").

Original Combination: *Lemonias alma koebelei* ♀ nov. tr. form

Type Locality: "Argus Mts., Inyo County, California"

Types: "Holotype" in CAS.

- h. **Chlosyne leanira basinensis** (Austin & M. Smith, 1998)
Syst. W. N. Am. Butterflies (27): 341-342, figs. 53 ♂ D, 59 ♂ V (holotype); 54 ♀ D, 60 ♀ V.

Original Combination: *Thessalia leanira basinensis*

Type Locality: "Nevada: Lyon County; Sweetwater Mountains, Nevada State Route 338, 1.0 miles northeast of the California state line, 1825 m, T7N R25E S26 on USGS Bridgeport, Calif.-Nev. 15' quadrangle"

Types: Holotype in MGCL.

- i. **Chlosyne leanira flavodorsalis** (Austin & M. Smith, 1998)

Syst. W. N. Am. Butterflies (27): 342-343, figs. 55 ♂ D, 61 ♂ V (holotype); 56 ♀ D, 62 ♀ V.

Original Combination: *Thessalia leanira flavodorsalis*

Type Locality: "Utah: San Juan County; Comb Ridge, 4 road miles west of Bluff on U.S. highway 163"

Types: Holotype in MGCL.

727. **Chlosyne nycteis** (E. Doubleday, 1847)

- a. **Chlosyne nycteis pastoron** Pelham, 2008

J. Res. Lepid. 40: 375.

Original Combination: *Chlosyne ismeria pastoron*
Proposed as a replacement name for *Chlosyne ismeria obsoleta* Gatrell, 2003, with the same data (Code Article 60.3).

= *obsoleta* Gatrell, 2003

Tax. Rep. Int. Lepid. Surv. 4(4): 10, figs. 17 D, 18 V (holotype); 19 D, 20 V, 21 D, 22 V, 23 D, 24 V.

Original Combination: *Chlosyne ismeria obsoleta*

Type Locality: "North Carolina: Macon County, Jones Knob 4200"

Types: Holotype in MGCL collection.

Preoccupied by *Melitaea*

Leanira var. *obsoleta* Hy. Edwards, 1877, Proc. Calif. Acad. Sci. [1]7(13): 171, currently in *Chlosyne*.

- b. **Chlosyne nycteis nycteis** (E. Doubleday, 1847)

In: Gen. diurn. Lepid. (1)(12): pl. 23, fig. 3 ♀ D; (21): 181, no. 23 (1848).

Original Combination: *Melitaea Nycteis*

Type Locality: "United States (Middle States)"

Types: Lectotype (#Rh8433) in BMNH, designated by Calhoun (2011), J. Lepid. Soc. 65(3): 185, figs. 1 ♀ D, 2 ♀ V, 4 labels.

= *oenone* (Scudder, 1863)

Proc. Essex Inst. 3: 166, no. 35.

Original Combination: *Melitaea Oenone*

Type Locality: "Lenox and Williamstown, Mass....Norway, Me." [Berkshire County, Massachusetts; Oxford County, Maine]

Types: Syntypes possibly in MCZ.

- = ‡"millburni" (C. Rummel, 1926)
Bull. Brooklyn Entomol. Soc. 21(5): 203.

Original Combination: *Phyciodes nycteis* ab. *millburni*

Type Locality: "Millburn, N. J." [Union County, New Jersey]

Types: "Holotype" in AMNH.

- = ‡"lacteus" (Gunder, 1928)
Can. Entomol. 60(7): 166, pl. B, figs. 16 ♂ D, 16a ♂ V ("holotype").

Original Combination: *Phyciodes nycteis* tr. f. *lacteus*

Type Locality: "near St. Louis, Mo." [St. Louis County, Missouri]

Types: "Holotype" in AMNH.

- = ‡"greyi" (W. D. Field, 1934)
Can. Entomol. 66(11): 256.

Original Combination: *Phyciodes nycteis* tr. f. *greyi*

Type Locality: "north west edge of city limits of Lawrence" [Douglas County, Kansas]

Types: "Holotype" in USNM.

c. *Chlosyne nycteis reversa* (F. Chermock & R. Chermock, 1940)

Can. Entomol. 72(4): 83.

Original Combination: *Phyciodes nycteis reversa*

Type Locality: "Riding Mtns., Manitoba"

Types: Holotype in CNC.

d. *Chlosyne nycteis drusius* (W. H. Edwards, 1884)
Papilio 4(3): 57.

Original Combination: *Phyciodes Nycteis* var. *Drusius*

Type Locality: "Colorado and Arizona"; defined as "Turkey Creek Junction, Jefferson County, Colorado" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 401-402.

Types: Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 402, fig. 15 ♂ D&V.

- = ‡"hewitsoni" (W. D. Field, 1936)
J. Entomol. & Zool. 28(2): 23.

Original Combination: *Phyciodes nycteis* race *drusius* tr. f. *hewitsoni*

Type Locality: "Greaterville, Arizona" [Pima County]

Types: "Holotype" in USNM.

728. *Chlosyne gorgone* (Hübner, [1810])

a. *Chlosyne gorgone gorgone* (Hübner, [1810])

Samml. exot. Schmett. 1: pl. [41], figs. 1 ♂ D, 2 ♂ V (not figs. 3, 4).

Original Combination: *Dryas Gorgone*

Type Locality: Not stated; suggested to be "Burke Co., in southern Georgia" by W. Forbes (1960), Mem. Cornell Univ. Agric. exp. Sta. 371 (part 4): 156; neotype from "Burke Co., GA, River Road."

Types: Type(s) probably lost. Neotype in MGCL, designated by Gatrell (1998), Tax. Rep. Int. Lepid. Surv. 1(2): 5, fig. 2 ♂ D&V.



- b. Chlosyne gorgone carlota** (Reakirt, 1866)
Proc. Entomol. Soc. Philad. 6(1): 141.
Original Combination: *Eresia Carlota*
Type Locality: "Rocky Mountains, Colorado Territory"; suggested to be "Illinois, Missouri" by W. H. Edwards (1861) Proc. Acad. Nat. Sci. Philad. 13(6): 161, no. 3; lectotype from "Colorado."
Types: Lectotype in FMNH, designated by Calhoun (2011), J. Lepid. Soc. 65(3): 165, figs. 1 ♂ D&V, 3 labels. Calhoun (2011), J. Lepid. Soc. 65(3): 162-166, discussed this name at length.
This name was proposed for *Melitaea nycteis* (*sensu* W. H. Edwards (1861), Proc. Acad. Nat. Sci. Philad. 13(6): 161, no. 3).

- = *Ismeria* (Boisduval & Le Conte, [1835])
Hist. Lépid. Amér. sept.(19): 168-169; (16): pl. 46, figs. 1 ♀ D, 2 ♀ V, 3 larva, 4 pupa.
Original Combination: *M[elitaea]. Ismeria*
Type Locality: "Caroline et la Géorgie"
Types: Described, at least in part, from a John Abbot drawing; the specimens upon which this drawing was based are presumed lost. Gatrell (1998), Tax. Rep. Int. Lepid. Surv. 1(2): 1-8, and Gatrell (2003), Tax. Rep. Int. Lepid. Surv. 4(4): 1-9, claimed to have rediscovered this taxon, believed it conspecific with *Chlosyne nycteis* (E. Doubleday, [1847]), and treated it as the senior synonym of that name. He also designated a neotype of *ismeria*; it is a specimen of *C. nycteis*.
This taxon was suppressed by I.C.Z.N. *Opinion* 2160. For details on this synonymy, see Calhoun (2003), J. Lepid. Soc. 57(3): 204-219, (2004), J. Lepid. Soc. 58(3): 143-168, (2005), J. Lepid. Soc. 59(3): 172-173, and Calhoun *et al.* (2005), Bull. Zool. Nomen. 62(2): 79-83.
= *†"nigra"* (M. Cary, 1901)
Can. Entomol. 33(11): 307-308.
Original Combination: *Phyciodes ismeria*, ab. *nigra*
Type Locality: "bottom of Monroe Canon" [Sioux County, Nebraska]
Types: Location of "holotype" not known.

- 729. Chlosyne californica** (W. G. Wright, 1905)
Butterflies W. Coast: 56, no. 212; 170, no. 212, pl. 21, figs. 212 ♂ D, 212a ♂ D (lectotype), 212b ♀ D, 212bb ♀ D, 212c ♀ V.
Original Combination: [*Synchloe*] *Californica*; *Synchloe Californica* n. s.
Type Locality: "Colorado Desert of Southeast. Cal." [San Bernardino County, California]
Types: Lectotype (#4309) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 24.
= *†"chinoi"* Gunder, 1924
Entomol. News 35(5): 157, pl. 2, fig. 1 ♀ D ("holotype").
Original Combination: *Chlosyne californica* ab. ♀ *chinoi*

Type Locality: "Palm Springs (Chino Canyon),
Riverside County, California"

Types: "Holotype" in AMNH; figured by J. A.
Comstock (1927), Butterflies Calif.: pl. 38, fig. 15 ♀
D.

***730. Chlosyne lacinia** (Geyer, 1837)

In: Hübner, Zutr. Samml. exot. Schmett. 5: pl. [155], figs. 899
♂ D, 900 ♂ V [1836]; 25, no. 450 (1837, name given).

Original Combination: *Araschnia Lacinia*

Type Locality: "Mexico"

Types: Type(s) probably lost.

= *tellias* (H. Bates, 1864)

Entomol. Mon. Mag. 1(4): 84-85, no. 42.

Original Combination: *Synchloe tellias*

Type Locality: "Guatemala"

Types: Syntypes in BMNH.

= *quehtala* (Reakirt, 1866)

Proc. Acad. Nat. Sci. Philad. 18(3): 248, no. 24.

Original Combination: *Synchloë quehtala*

Type Locality: "Mexico"

Types: Location of type(s) not known.

= *ardema* (Reakirt, [1867])

Proc. Acad. Nat. Sci. Philad. 18(4): 336, no. 39.

Original Combination: *Synchloë ardema*

Type Locality: "Mexico, (near Vera Cruz)" [Veracruz]

Types: Location of type(s) not known.

= *misera* (R. Felder, 1869)

Verh. zool.-bot. Ges. Wien 19: 471-472, no. 21.

Original Combination: *Synchloë misera*

Type Locality: "Huahuapan" [Huajuapán de León,
Oaxaca, Mexico]

Types: Holotype in BMNH.

= *pretona* (Boisduval, 1870)

Lepid. Guat.: 37-38.

Original Combination: *Synchloe Pretona*

Type Locality: "Guatemala"

Types: Syntype in USNM.

= *adelina* (Staudinger, 1876)

Verh. zool.-bot. Ges. Wien 25: 102, no. 12.

Original Combination: *Synchloë Adelina*

Type Locality: "Panamá als Chiriqui"

Types: Location of type(s) not known.

= ‡"indigens" Higgins, 1961

Trans. R. Entomol. Soc. Lond. 112(14): 408 (b);
cited Godman and Salvin (1882), Biol. centr.-amer.,
Lepid. Rhop. 3(17): pl.19, fig. 14 ♀ D, 15 ♀ V
(as *lacinia*).

Original Combination: [*Chlosyne lacinia lacinia*]
form *indigens*

Type Locality: "Costa Rica: Escazu"

Types: Syntypes in BMNH.

a. Chlosyne lacinia crocale (W. H. Edwards, 1874)

Trans. Am. Entomol. Soc. 5(1): 17; figured by Mead
(1875), Rep. Coll. diurn. Lepid. 5(Zool.): pl. 37, fig. 1 ♂
D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Synchloe Crocale*

Type Locality: "White Mtns, Arizona"; suggested to be "country directly northeast of old Camp Apache, now Fort Apache, in the extreme southeastern corner of Navajo County and in extreme southwestern Apache County, Arizona" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 407.

Types: Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 409, fig. 18 ♂ D&V.

- = ‡"rufescens" (W. H. Edwards, 1893)
Can. Entomol. 25(11): 287.

Original Combination: [*Synchlœ crocale*]
aberration *rufescens*

Type Locality: "Juarey [*sic!*], Mexico (across the river opposite El Paso)" [Cuidad Juarez, Chihuahua]

Types: "Type(s)" may not have existed.
Cockerell (1894), Can. Entomol. 26(1): 30, redescribed *Synchlœ lacinia* ab. *rufescens* from "Juarez (not Juarey), Mexico."

- = ‡"rufa" (T. Cockerell, 1893)
In: W. H. Edwards, Can. Entomol. 25(11): 286.

Original Combination: [*Synchlœ Lacinia*]
form *rufa*

Type Locality: "Las Cruces, New Mexico" [Dona Ana County]

Types: "Type(s)" probably never existed.
Described as a color form of the larva.

- = ‡"bicolor" (T. Cockerell, 1893)
In: W. H. Edwards, Can. Entomol. 25(11): 287.

Original Combination: [*Synchlœ Lacinia*]
form *bicolor*

Type Locality: "Las Cruces, New Mexico" [Dona Ana County]

Types: "Type(s)" probably never existed.
Described as a color form of the larva.

- = ‡"nigra" (T. Cockerell, 1893)
In: W. H. Edwards, Can. Entomol. 25(11): 287.

Original Combination: [*Synchlœ Lacinia*]
form *nigra*

Type Locality: "Las Cruces, New Mexico" [Don Ana County]

Types: "Type(s)" probably never existed.
Described as a color form of the larva.

- = ‡"nigrescens" (W. H. Edwards, 1893)
Can. Entomol. 25(11): 287.

Original Combination: [*Synchlœ Crocale*]
ab. *nigrescens*

Type Locality: "Juarey [*sic!*], Mexico (across the river opposite El Paso)" [Cuidad Juarez, Chihuahua]

Types: "Type(s)" may not have existed.

- = ‡"inghami" Gunder, 1928
Can. Entomol. 60(7): 167, pl. B, figs. 20 ♂ D, 20a ♂ V ("holotype").

Original Combination: *Chlosyne lacinia* race *rufescens* tr. f. *inghami*

- Type Locality:** "Mesa, Ariz." [Mariposa County, Arizona]
Types: "Holotype" in AMNH.
 = ‡"flavida" Higgins, 1960
 Trans. R. Entomol. Soc. Lond. 112(14): 409.
Original Combination: *Chlosyne lacinia crocale* form *flavida*
 Proposed to replace *Synchlœ crocale* aberration *rufescens* W. H. Edwards, 1893, Can. Entomol. 25(11): 287, but that is an infrasubspecific name, not subject to homonymy (Code Article 1.3.4).
- b. Chlosyne lacinia adjutrix** Scudder, 1875
 Bull. Buffalo Soc. Nat. Sci. 2(4): 269, no. 183.
Original Combination: [*Chlosyne*] *Adjutrix*
Type Locality: "Texas"
Types: Holotype probably in MCZ.
- 731. Chlosyne harrisii** (Scudder, 1863)
- a. Chlosyne harrisii harrisii** (Scudder, 1863)
 Proc. Essex Inst. 3: 167-168, no. 36.
Original Combination: *Melitaea Harrisii*
Type Locality: "Norway, Maine...Pittsfield, N. H....Sutton and Princeton, Mass." [Oxford County, Maine, Merrimack County, New Hampshire, Worcester County, Massachusetts]
Types: Syntype (#26344) in MCZ.
- b. Chlosyne harrisii albimontana** (Avinoff, 1930)
 Ann. Carnegie Mus. 19(3): 163-164, no. 2, pl. 6, figs. 8 ♂ D (holotype), 9 ♂ V.
Original Combination: *Melitaea harrisii albimontana*
Type Locality: "White Mtns." [New Hampshire]
Types: Holotype in CMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 59, fig. 11 ♂ D.
- c. Chlosyne harrisii liggetti** (Avinoff, 1930)
 Ann. Carnegie Mus. 19(3): 161-162, no. 1, pl. 6, figs. 4 ♂ D (holotype), 5 ♀ V, 6 ♂ V, 7 ♀ V.
Original Combination: *Melitaea harrisii liggeti*
Type Locality: "Cook Forest...Slippery Rock, Pa." [Clarion County, Pennsylvania]
Types: Holotype in CMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 59, fig. 12 ♂ D (holotype), 13 ♀ D (paratype).
- d. Chlosyne harrisii hanhami** (Fletcher, 1903)
 Proc. & Trans. R. Soc. Can. (2)9(Sect. IV): 208-210, unnumbered pl., fig. ♂ D, ♀ V.
Original Combination: *Phyciodes hanhami*
Type Locality: "Manitoba (Eastern, Central and Southern), Minnesota...Winnipeg...at Bird's Hill...Brandon...Rounthwaite, Man....Aweme, Man."; stated to be "Manitoba and Minnesota" by Fletcher (1904), Can. Entomol. 36(5): 122, fig. ♂ D, ♀ V.
Types: Syntypes in USNM; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 74, figs. 9 ♂ D, 10 ♀ D.
 This taxon was redescribed by Fletcher (1904), Can. Entomol. 36(5): 122, fig. ♂ D, ♀ V.
- 732. Chlosyne hoffmanni** (Behr, 1863)
- a. Chlosyne hoffmanni hoffmanni** (Behr, 1863)

Proc. Calif. Acad. Sci. [1]3(6): 88, 89, no. 4.

Original Combination: *M[elitaea]. Hoffmanni*

Type Locality: "California" implied from the title of the paper, "peculiar to the higher regions of California" from the description; neotype from "Gold Lake, Sierra County, California."

Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 99, figs. 22 ♂ D, 23 ♂ V.

= *helcita* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 55-56, no. 43; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 261, figs. 2186 ♂ D&V, 2187 ♀ D&V.

Original Combination: *Melitaea Helcita*

Type Locality: "dans les contrées du Sud" in error; defined as "Gold Lake, Sierra County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 32.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 32, figs. 240 ♂ D, 241 ♂ V.

= ‡"abnorma" (W. G. Wright, 1905)

Butterflies W. Coast: 55, no. 183; 160, no. 183, pl. 20, figs. 183, 183b ♀ D&V ("holotype").

Original Combination: [*Melitaea Hoffmanni* var.] *Abnorma*; *Melitaea Abnorma* n. v.

Type Locality: "Sierra Nevadas, 7,000 ft., Calif."; "Truckee, Cal." [Nevada County, California]

Types: "Holotype" (#4303) in CAS.

The text clearly indicates that this taxon was described as an individual variant.

= ‡"hollandae" (Gunder, 1928)

Can. Entomol. 60(7): 166, pl. B, figs. 13 ♀ D, 13a ♀ V ("holotype").

Original Combination: *Melitaea (Lemonias) hoffmanni* tr. f. *hollandae*

Type Locality: "Summit, California" [Placer County, California]

Types: "Holotype" in CMNH; figured by W. Holland (1898), Butterfly Book: pl. 17, fig. 14 ♀ D.

b. Chlosyne hoffmanni segregata (W. Barnes & McDunnough, 1918)

Contr. Nat. Hist. Lepid. N. Am. 4(2): 72-73, pl. 11, figs. 8 ♂ D, 9 ♀ D (holotype), 10 ♂ V.

Original Combination: *Melitaea hoffmanni segregata*

Type Locality: "Crater Lake, Oregon, 6500 ft." [Klamath County]

Types: Holotype in LACM; paratypes figured by W. Holland (1898), Butterfly Book: figs. 28 ♂ D, 29 ♀ D.

= *bridgei* (J. A. Comstock, 1924)

Bull. South. Calif. Acad. Sci. 23(6): 173-174; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 37, fig. 9 ♂ D (holotype), 10 ♂ V, 11 ♀ D (as *Melitaea hoffmanni segregata*).

Original Combination: *Melitaea Bridgei*

Type Locality: "Crater Lake, Oregon" [Klamath County]

Types: Holotype in LACM.

- c. **Chlosyne hoffmanni manchada** Bauer, 1960
J. Lepid. Soc. 13(4): 208-210, figs. 7 ♂ D, 8 ♂ V.
Original Combination: *Chlosyne hoffmanni manchada*
Type Locality: "1,600 feet elevation in Tumwater Canyon, Drury, Chelan Co., Washington"
Types: Holotype in LACM.

733. **Chlosyne whitneyi** (Behr, 1863)
Proc. Calif. Acad. Sci. [1]3(6): 88-89, no. 2.
Original Combination: *Melitaea Whitneyi*
Type Locality: "California" implied from the title of the paper, "the headwaters of the Tuolumne River...in the elevated and uninhabited regions" from the description; neotype from "north slope of Mt. Dana, at lower end of Glacier Canyon, 11,000' elevation, Mono County, California."
Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 98, figs. 16 ♂ D, 17 ♂ V.

This name had long been used for the high-elevation populations of *C. palla* in the Sierra Nevada, now called *C. p. altasierra* J. Emmel, T. Emmel and Mattoon (1998) (e.g., Bauer (1975), *in*: Howe, Butterflies N. Am.: 155, and L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 156). The original description, locality and habitat of *whitneyi* suggested that it is a senior synonym of *malcolmi*; the recently designated neotype confirms this.

= *malcolmi* (J. A. Comstock, 1926)
Bull. South. Calif. Acad. Sci. 25(1): 33; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 36, figs. 10 ♂ D (holotype), 11 ♀ D, 12 ♂ V.

Original Combination: *Melitaea malcolmi*

Type Locality: "Near Mammoth Camp, Mono County, Calif." [California]

Types: Holotype in LACM.

734. **Chlosyne acastus** (W. H. Edwards, 1874) (1870)
The name *acastus* has long been associated with this suite of taxa. The discovery that populations given the name *sterope* (W. H. Edwards, 1870), formerly considered a subspecies of *Chlosyne palla* (Boisduval, 1852), are actually conspecific with *C. acastus*, threatens the seniority of the latter name; see A. Warren (2005), Butterflies Ore.: 225-232. Replacing *acastus* with *sterope* as the species-level name (e.g., Scott (2006), Papilio (n.s.) 12: 37-38), would create an unnecessary and cumbersome reassignment of names. A paper is being prepared to cite the evidence for implementation of Code Article 81.2.3, to grant *acastus* status as a *nomen protectum*.

- a. **Chlosyne acastus sabina** (W. G. Wright, 1905)
Butterflies W. Coast: 55, no. 181; 159, no. 181, pl. 20, fig. 181 ♀ D (holotype).
Original Combination: [*Melitaea*] *Sabina*; *Melitaea Sabina* n. s.
Type Locality: "Catalina Mountains of Arizona"; Sabino Canyon implied from the formation of the name. [Pima County]
Types: Holotype (#4302) in CAS.

- J. A. Comstock (1920), Southwest Sci. Bull. [1]: 30-32, pl. [1], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, redescribed and figured this taxon.
- b. *Chlosyne acastus neumoegeni*** (Skinner, 1895)
Entomol. News 6(4): 113.
Original Combination: *Melitaea neumoegeni*
Type Locality: "Utah"; syntype from "Virgin River Valley, Washington Co., Utah."
Types: Syntype (#7019) in CMNH; one figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 56, fig. 16 ♂ V.
= ♀"fridayi" (Gunder, 1932)
Can. Entomol. 64(12): 283.
Original Combination: *Melitaea neumoegeni* tr. f. *fridayi*
Type Locality: "Little Rock, Los Angeles Co., Calif." [California]
Types: "Holotype" in AMNH.
= ♀"boharti" (Gunder, 1933)
Can. Entomol. 65(8): 173.
Original Combination: *Melitaea neumoegeni* tr. f. *boharti*
Type Locality: "Little Rock, Los Angeles Co., Calif." [California]
Types: "Holotype" in AMNH.
- c. *Chlosyne acastus acastus*** (W. H. Edwards, 1874) (1870)
Trans. Am. Entomol. Soc. 5(1): 16-17.
Original Combination: *Melitaea Acastus*
Type Locality: "Montana...Nevada...Southern Utah"; defined as "Provo Canyon, Utah County, Utah" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 402-403.
Types: Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 404, fig. 16 ♂ D&V; figured by W. Holland (1898), Butterfly Book: pl. 16, fig. 11 ♂ D.
- d. *Chlosyne acastus arkanyon*** M. Fisher & Scott, 2006
Papilio (n.s.) 12: 37-38, pl. 6, 1st row left ♂ D, 2nd row left ♂ V (holotype), 1st row center ♀ D, 2nd row center ♀ V.
Original Combination: *Chlosyne sterope (acastus) arkanyon*
Type Locality: "Poncha Creek, along Hwy. 285, south of Poncha Springs, 7800 ft., Chaffee Co. Colorado"
Types: Holotype in CSUC.
- e. *Chlosyne acastus vallismortis*** (J. Johnson, 1938) (emended)
Bull. South. Calif. Acad. Sci. 37(1): 18-20.
Original Combination: *Melitaea palla vallis-mortis*
Type Locality: "Tuber Canyon Spring in the Panamint Mountains...Tuber Canyon, Panamint Mountains, elevation 8,000 feet, Death Valley National Monument, California" [Inyo County]
Types: Holotype in LACM.
J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (12): 141, placed this taxon here.
- f. *Chlosyne acastus robusta*** Austin, 1998

Syst. W. N. Am. Butterflies (46): 576, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.

Original Combination: *Chlosyne acastus robusta*

Type Locality: "Nevada: Clark County; Spring Mountains, Kyle Canyon Campground, 2072 m, T19S R57E S28 on USGS Charleston Peak, Nev. 15' quadrangle"

Types: Holotype in MGCL.

g. *Chlosyne acastus waucoba* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butterflies (12): 142-143, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.

Original Combination: *Chlosyne (Charidryas) acastus waucoba*

Type Locality: "California: Inyo County; one half air mile north of Cerro Gordo (town), Inyo Mountains, 8100' elevation"

Types: Holotype in LACM.

= ‡"pearlae" (Gunder, 1926)

Entomol. News 37(1): 5, no. 7, pl. 1, fig. 7 ♀ D (holotype).

Original Combination: *Melitaea acastus* ab. ♀ *pearlae*

Type Locality: "Casa Diablo Hills, Mono County, California"

Types: "Holotype" in AMNH.

h. *Chlosyne acastus dorothyi* Bauer, 1975

In: Howe, Butterflies N. America: 157, no. 5a, pl. 40, figs. 9 ♀ D&V, 12 ♂ D&V (lectotype; as *Chlosyne palla sterope*).

Original Combination: [*Chlosyne (Charidryas) acastus*] *dorothyi*

Type Locality: "Burnt and Snake River Canyons, Oregon", lectotype from "Durkee, Oregon." [Baker County]

Types: Lectotype said to be in LACM, designated by Ferris (1989), Mem. Lepid. Soc. (3): 44.

i. *Chlosyne acastus sterope* (W. H. Edwards, 1870)
Trans. Am. Entomol. Soc. 3(2): 189, 190-191, no. 3.

Original Combination: *Melitaea Sterope*

Type Locality: "Oregon"; defined as "Tygh Valley, Wasco county, Oregon" by Bauer (1975), *in:* Howe, Butterflies N. Am.: 157.

Types: Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 407, fig. 17 ♀ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): 124, pl. 58, fig. 23 ♀ D.

= *hewesi* (Leussler, 1931)

Entomol. News 42(1): 12.

Original Combination: *Melitaea hewesi*

Type Locality: "Tygh, Oregon, about 25 miles south of the Columbia River near the Dalles in Sherman [sic!] County" [Tygh Valley, Wasco County]

Types: Holotype probably in OSU.

Gunder (1934), Can. Entomol. 66(6): 130, was the first to recognize that *hewesi* is a synonym of *sterope*.

= ‡"hopfingeri" Gunder, 1934

Can. Entomol. 66(6): 129-130.

Original Combination: *Melitaea sterope* tr.
f. *hopfingeri*

Type Locality: "Aster Island (Columbia River)
near Brewster, Okanogan Co., Washington"

Types: "Holotype" in AMNH.

735. **Chlosyne gabbii** (Behr, 1863)

a. **Chlosyne gabbii gabbii** (Behr, 1863)

Proc. Calif. Acad. Sci. [1]3(6): 88, 89, no. 3.

Original Combination: *M[elitaea]. Gabbii*

Type Locality: "California" implied from the title of the paper, "the mountains near Los Angeles" from the description; neotype from "La Tuna Canyon, Verdugo Mountains, Los Angeles County, California."

Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 99, figs. 19 ♂ D, 20 ♂ V.

= *pola* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 56, no. 44.

Original Combination: *Melitaea Pola*

Type Locality: "Sonora"; suggested to be "somewhere from Los Angeles southward into extreme northern Baja California" by F. Brown (1967), J. Lepid. Soc. 21(4): 273; defined as "La Tuna Canyon, 1,200' elev., Verdugo Mts., Los Angeles County, California" by Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 32.

Types: Holotype in CMNH, as determined by F. Brown (1965), J. Lepid. Soc. 19(4): 206-207, fig. 2 ♂ D&V; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 32, figs. 243 ♂ D, 244 ♂ V. Boisduval loaned the holotype to W. H. Edwards, but died before it could be returned. The subsequent figure of a specimen of *Poladryas arachne* by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 261, fig. 2188, and designation of that figure as the type of "*pola*" by W. Barnes and McDunnough, (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 92, contributed to the general acceptance of this name as a senior synonym of *arachne* (e.g., dos Passos (1964), Mem. Lepid. Soc. (1): 85, and Bauer (1961), *in*: P. Ehrlich and A. Ehrlich, How Know Butterflies: 130). F. Brown (1965), J. Lepid. Soc. 19(4): 206-207, detailed the particulars of this confusion and figured the holotype of *pola*, justifying its placement in the synonymy of *C. gabbii*.

= *sonorae* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 56-57, no. 45; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 261, figs. 2189 ♂ D&V, 2190 ♀ D&V.

Original Combination: *Melitaea Sonorae*

Type Locality: "De la Sonora"; suggested to be "somewhere from Los Angeles southward into extreme northern Baja California" by F. Brown (1967), J. Lepid. Soc. 21(4): 273; stated to be "vic. Los Angeles, California" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 157; further defined as "La Tuna Canyon, 1,200' elev., Verdugo Mts., Los

Angeles County, California" by Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 32.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 32, figs. 246 ♂ D, 247 ♂ V.

= ‡"pasadenae" (Gunder, 1924)
Entomol. News 35(5): 155, pl. 2, fig. C ♂ D ("holotype").

Original Combination: *Euphydryas gabbi* ab. ♂ *pasadenae*

Type Locality: "Pasadena, Los Angeles County, California"

Types: "Holotype" in AMNH; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 36, fig. 4 ♂ D.

= ‡"gunderi" (J. A. Comstock, 1926)
Bull. South. Calif. Acad. Sci. 25(1): 33; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 36, fig. 6 ♂ D ("holotype").

Original Combination: *Melitaea gabbii* ab. *gunderi*

Type Locality: "San Fernando, Calif." [Los Angeles County, California]

Types: "Holotype" in LACM.

= ‡"newcombi" (J. A. Comstock, 1926)
Bull. South. Calif. Acad. Sci. 25(1): 33; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 36, fig. 5 ♀ D ("holotype").

Original Combination: *Melitaea gabbii* ab. *newcombi*

Type Locality: "Pasadena, Calif." [Los Angeles County, California]

Types: "Holotype" in LACM.

b. Chlosyne gabbii atrifasciata Hawks & J. Emmel, 1998
Syst. W. N. Am. Butterflies (25): 322-323, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.

Original Combination: *Chlosyne (Charidryas) gabbii atrifasciata*

Type Locality: "California: Santa Barbara County, Santa Cruz Island; La Cascada"

Types: Holotype in LACM.

736. Chlosyne palla (Boisduval, 1852)

a. Chlosyne palla eremita (W. G. Wright, 1905)
Butterflies W. Coast: 55, no. 178; 157, no. 178, pl. 19, figs. 178 ♀ D (lectotype), 178b ♀ D, 178c ♀ V.

Original Combination: [*Melitaea*] *Eremita*; *Melitaea Eremita* n. s.

Type Locality: "Lake County, California"; defined as "San Rafael, Marin County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (12): 141, but the original citation is adequate. Populations in Lake County are phenotypically like those in Marin County.

Types: Lectotype (#4296) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 21.

J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (12): 141, and A. Warren (2005), Butterflies Ore.: 227, discussed the status of this taxon.

= ‡"hemifusa" (Gunn, 1930)



Entomol. News 41(1): 17.

Original Combination: *Melitaea*

palla ab. *hemifusa*

Type Locality: "Cazadero, Sonoma County, California"

Types: "Holotype" in CIS.

b. *Chlosyne palla blackmorei* Pelham, 2008

J. Res. Lepid. 40: 381-382.

Original Combination: *Chlosyne palla blackmorei*

Pelham adopted *Melitaea palla* ab. *blackmorei* Gunder, 1926 to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= ‡"blackmorei" (Gunder, 1926)

Entomol. News 37(1): 6, no. 8, pl. 1, fig. 8 ♀ D ("holotype").

Original Combination: *Melitaea palla* ab.

♀ *blackmorei*

Type Locality: "Lytton, British Columbia, Canada"

Types: "Holotype" in AMNH.

c. *Chlosyne palla palla* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 305, no. 48; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 259, figs. 2173 ♂ D&V, 2174 ♀ D&V.

Original Combination: *Melitaea palla*

Type Locality: "Dans une grande partie de la Californie"; defined as "vic. San Francisco, California" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 156; corrected to "Hwy. 70 at Chambers Creek, ca. 6 rd. Mi SW of Belden, North Fork Feather River Canyon, 1850' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 18.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 18, figs. 99 ♂ D, 100 ♂ V.

= ‡"wardi" (Oberthür, 1914)

Étud. Lépid. Comp. 9(2): 79, pl. 259, fig. 2175 ♂ D&V ("holotype").

Original Combination: [*Melitaea Palla*] aberration *Wardi*

Type Locality: Not stated; "Californie" implied from the title of the paper.

Types: "Holotype" in USNM; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 27, fig. 2 ♂ D&V.

= ‡"stygiانا" (J. A. Comstock, 1926)

Bull. South. Calif. Acad. Sci. 25(1): 32; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 36, fig. 19 ♀ D ("holotype").

Original Combination: *Melitaea palla* ab. *stygiانا*

Type Locality: "Willow Ranch, Modoc County, Calif." [California]

Types: "Holotype" in LACM.

d. *Chlosyne palla altasierra* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butterflies (12): 140-141, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.

Original Combination: *Chlosyne (Charidryas) palla altasierra*

Type Locality: "California: El Dorado County; Fallen Leaf Lake; elevation ca. 6400"

Types: Holotype in LACM.

Before its description, this taxon had been known as "*C. palla whitneyi*" (e.g., Bauer (1975), in: Howe, Butterflies N. Am.: 155, and L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 156).

= ‡"*vanduzeei*" (Gunder, 1928)

Can. Entomol. 60(7): 165, pl. B, figs. 12 ♂ V, 12a ♂ D (holotype).

Original Combination: *Melitaea (Lemonias) palla* race *whitneyi* tr. f. *vanduzeei*

Type Locality: "Portola, Calif." [Plumas County, California]

Types: "Holotype" in CAS.

e. *Chlosyne palla australomontana* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butterflies (12): 141-142, figs. 9 ♂ D, 10 ♂ V, 11 ♀ D, 12 ♀ V.

Original Combination: *Chlosyne (Charidryas) palla australomontana*

Type Locality: "California: Tulare County, Kennedy Meadows Road, 16-20 mi. W. of Hwy. 395"

Types: Holotype in LACM.

f. *Chlosyne palla flavula* (W. Barnes & McDunnough, 1918)

Contr. Nat. Hist. Lepid. N. Am. 4(2): 73-74, pl. 11, figs. 14 ♂ D, 15 ♂ V.

Original Combination: *Melitaea flavula*

Type Locality: "Glenwood Spgs., Colo....Hall Valley, Colo."; defined as "Glenwood Springs, Colorado" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 157. [Garfield County]

Types: Syntypes in USNM; one figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 56, fig. 25 ♂ D.

g. *Chlosyne palla calydon* (W. Holland, 1931)
Butterfly Book (rev. ed.): 125, pl. 58, figs. 19 ♂ D, 20 ♀ D (syntypes).

Original Combination: *Melitaea calydon*

Type Locality: "Turkey Creek Junction, Colorado" [Jefferson County]

Types: Syntypes in CMNH.

This name was listed but not described by Mead (1875), Rep. Coll. diurn. Lepid. 5(Zool.): 760, and Strecker (1878), Butterflies & Moths N. Am., Comp. Syn. Cat.: 126; on both occasions it is a *nomen nudum*.

737. *Chlosyne damoetas* (Skinner, 1902)

a. *Chlosyne damoetas damoetas* (Skinner, 1902)
Entomol. News 13(10): 304-305.

Original Combination: *M[elitaea]. damoetas*

Type Locality: "South Park...Williams River Range...Hall Valley" [Colorado]

Types: Syntype (#7021) in CMNH; one figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 56, fig. 13 ♂ D.

b. *Chlosyne damoetas windriver* Scott, 1998

Papilio (n.s.) 11: 3, fig. 5 ♂ D (holotype), 6 ♀ D.

Original Combination: *Chlosyne whitneyi windriver*

Type Locality: "Near Bears Ears Mountain, 11,000', Wind River Mts., Wyo." [Fremont County, Wyoming]

Types: Holotype in BMNH.

c. ***Chlosyne damoetas altalus*** Scott, 1998

Papilio (n.s.) 11: 3, fig. 3 ♂ D (holotype), 4 ♀ D.

Original Combination: *Chlosyne whitneyi altalus*

Type Locality: "Nigel Pass" [Alberta]

Types: Holotype in BMNH.

= ‡"damoetella" (McDunnough, 1927)

Can. Entomol. 59(7): 160.

Original Combination: [*Melitaea damoetas* ab. *damoetella*]

Type Locality: "Mount McLean" [vic. Lillooet, British Columbia]

Types: "Holotype" (#2433) in CNC.

Genus ***Microtia*** H. Bates, 1864

Entomol. Mon. Mag. 1(4): 83. Type-species: *Microtia elva* H. Bates, 1864, Entomol. Mon. Mag. 1(4): 83, no. 39, by original designation.

738. ***Microtia elva*** H. Bates, 1864

a. ***Microtia elva elva*** H. Bates, 1864

Entomol. Mon. Mag. 1(4): 83, no. 39.

Original Combination: *Microtia elva*

Type Locality: "Guatemala, interior; also Nicaragua"

Types: Syntypes in BMNH.

Genus ***Dymasias*** Higgins, 1960

Trans. R. Entomol. Soc. Lond. 112(14): 455-456. Type-species: *Melitaea dymas* W. H. Edwards, 1877, Can. Entomol. 9(6): 190-191, by original designation.

739. ***Dymasias dymas*** (W. H. Edwards, 1877)

a. ***Dymasias dymas dymas*** (W. H. Edwards, 1877)

Can. Entomol. 9(10): 190-191.

Original Combination: *Melitaea dymas*

Type Locality: "San Antonio, Texas" [Bexar County]

Types: Lectotype in CMNH, designated by Higgins, 1969, Trans. R. ent. Soc. Lond. 112(14): 457-458; figured by F. Brown, 1966, Trans. amer. ent. Soc. 92(3): 381, fig. 7 ♀ D&V.

= *larunda* (Strecker, [1878])

Lepid. Rhop. Het. (14): 130.

Original Combination: *Melitaea Larunda*

Type Locality: Not stated; "vicinity of New Braunfels and San Antonio, Southwestern Texas" implied from introductory text. [Comal and Bexar counties]

Types: Syntypes in FMNH.

= *senrabii* (W. Barnes, 1900)

Can. Entomol. 32(2): 42, 43.

Original Combination: *Melitaea Senrabii*

Type Locality: "Corpus Christi, Texas" [Nueces County]

Types: Syntypes in USNM.

- b. **Dymasia dymas chara** (W. H. Edwards, [1884])
 Can. Entomol. 15(11): 209-210.
Original Combination: *Melitaea Chara*
Type Locality: "South Arizona"; defined as "vicinity of Tucson, Pima County, Arizona" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 380.
Types: Lectotype in USNM, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 382, fig. 8 ♂ D&V.
- c. **Dymasia dymas imperialis** (Bauer, 1959)
 Lepid. News 12(3/4): 98; figured in Howe (1975), Butterflies N. Am.: pl. 1, figs. 18 ♂ D, 19 ♀ D&V.
Original Combination: *Microtia dymas imperialis*
Type Locality: "Palm Springs, Riverside Co., California"
Types: Holotype in LACM.
- = ♂ "jacintoï" (Gunder, 1924)
 Entomol. News 35(5): 154, pl. 2, fig. B ♂ D ("holotype").
Original Combination: *Melitaea chara* ab. ♂ *jacintoï*
Type Locality: "Palm Springs, Riverside County, California"
Types: "Holotype" in AMNH; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 37, fig. 12 ♂ D.
- = ♂ "nitela" (J. A. Comstock, 1926)
 Bull. South. Calif. Acad. Sci. 25(1): 33; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 37, fig. 13 ♂ V ("holotype").
Original Combination: *Melitaea chara* ab. *nitela*
Type Locality: "Near Palm Springs, Coachella Valley, Calif." [California]
Types: "Holotype" in LACM.

Genus **Texola** Higgins, 1959

Lepid. News 12(5-6): 161, figs. 1b, 2b ♂ genitalia, 3b palp, 4b FW venation (*dymas*), 5b FW (*dymas*).
 Type-species: *Eresia elada* Hewitson, 1868, Ill. exot. Butterflies 4(66): [33], pl. Eresia VII, figs. 54, 55, by original designation.

- *740. **Texola elada** (Hewitson, 1868)
 Ill. exot. Butterflies 4(66): [33], pl. Eresia VII, figs. 54 ♀ D, 55 ♀ V.
Original Combination: *Eresia Elada*
Type Locality: "Mexico"
Types: Holotype in BMNH.
- = *callina* (Boisduval, 1869)
 Anns. Soc. Entomol. Belg. 12: 54, no. 39.
Original Combination: *Melitaea Callina*
Type Locality: "dans la Sonora, nous avons reçu du Mexique plusieurs individus de cette même espece"; lectotype is labeled, probably erroneously, "Sonora."
Types: Lectotype in CMNH, designated by Higgins (1960), Trans. R. Entomol. Soc. Lond. 112(14): 452-453; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 59, fig. 21 ♂ D. F. Brown (1965), J. Lepid. Soc. 19(4):

fig. 4 ♂ D&V, and J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 31, figs. 231 ♂ D, 232 ♂ V. J. Emmel *et al.* (1998), *ibid.*, discussed this taxon and the uncertainty about its type locality. The lectotype was loaned to W. H. Edwards by Boisduval, but Boisduval died before it could be returned. The subsequent figure of a specimen of *Texola elada ulrica* by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 260, fig. 2185 ♂ D&V, and designation of that figure as the “type” of *callina* by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 92, confused the issue; F. Brown (1965), J. Lepid. Soc. 19(4): 207-211, detailed this confusion. The actual type locality remains unknown; there currently are no populations of *Texola* in Lorquin’s “Sonora” (the vicinity of Los Angeles, California).

- = *socia* (R. Felder, 1869)
Verh. zool.-bot. Ges. Wien 19: 470-471, no. 18.
Original Combination: *Eresia socia*
Type Locality: not stated; “Mexico” implied from the title of the paper.
Types: Location of type(s) not known.
- a. **Texola elada ulrica** (W. H. Edwards, 1877)
Can. Entomol. 9(10): 189-190.
Original Combination: *Melitaea ulrica*
Type Locality: “San Antonio, Texas” [Bexar County]
Types: Lectotype in CMNH, designated by Higgins (1960), Trans. R. Entomol. Soc. Lond. 112(14): 454; figured by W. Holland (1931), Butterfly Book (rev. ed.): 132, pl. 17, fig. 2 ♂ D, and by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 383, fig. 9 ♂ D&V.
= *imitata* (Strecker, [1878])
Lepid. Rhop. Het. (14): 130.
Original Combination: *Melitaea Imitata*
Type Locality: Not specifically stated; “vicinity of New Braunfels and San Antonio, Southwestern Texas” implied from introductory text. [Comal and Bexar counties]
Types: Syntypes in FMNH.
- b. **Texola elada perse** (W. H. Edwards, 1882)
Papilio 2(8): 136.
Original Combination: *Melitaea Perse*
Type Locality: “Fort Grant and in Graham Mountains, Arizona” implied from the title of the paper. [Graham County]
Types: Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 386-387, fig. 10 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): 132, pl. 16, fig. 19 ♂ D.
‡“*suffusa*” Ottolengui, 1895
Entomol. News 6(7): 217.
Original Combination: *Melitaea perse* var. *suffusa*
This name was listed as a Neumoegen “type”, but without a description or indication; a *nomen nudum*.

Subtribe **Phyciodina** Higgins, 1981

Bull. Brit. Mus. (Nat. Hist.) Entomol. 43(3): 81-82 (as "*Phyciodini*"), figs. 178 FW venation, 179, HW venation, 180 palpus lateral, 181 ♂ foreleg, 182 ♂ genitalia (all *tharos*), fig. 183 ♂ genitalia, 184 penis lateral (*Eresia clara*), 185 ♀ sterigma (*Eresia phillyra*).

Genus **Tegosa** Higgins, 1981

Bull. Brit. Mus. (Nat. Hist.) Entomol. 43(3): 84, 121, figs. 325-363 ♂ and ♀ genitalia, palps. Type-species: *Acraea claudina* Eschscholtz, 1821, in: Kotzebue, Endeck. Reise Süd-See 3 (appendix 5): 212, pl. [8], figs. 18a, 18b, by original designation.

741. **Tegosa luka** (Higgins, 1981)

Bull. Brit. Mus. (Nat. Hist.) Entomol. 43(3): 126-127, figs. 87 ♂ D&V, 353 ♂ genitalia dorsal, 354 ♂ genitalia dorsal.

Original Combination: *Tegosa anieta luka*

Type Locality: "Mexico: Tamazunchale, San Luis Potosi"

Types: Holotype in BMNH.

Austin and T. Emmel (1996), Trop. Lepid. 7(2): 137, treated this as a species-level taxon.

Genus **Anthanassa** Scudder, 1875

Bull. Buffalo Soc. Nat. Sci. 2(4): 239, 268, no. 54. Type-species: *Melitaea texana* W. H. Edwards, 1863, Proc. Entomol. Soc. Philad. 2(2): 81, no. 5, by designation of I.C.Z.N. *Opinion* 839; the same *Opinion* placed *Anthanassa* on the *Official List of Generic Names in Zoology* as name no. 1780.

= *Tritanassa* W. Forbes, 1945

Entomol. Am. (n.s.) 24: 171. Type-species: *Eresia drusilla* C.

Felder & R. Felder, 1861, Wien. Entomol. Montaschr. 5(4): 103-104, no. 79, by original designation.

742. **Anthanassa frisia** (Poey, 1832)

a. **Anthanassa frisia frisia** (Poey, 1832)

Cent. Lépid. Cuba (1): [5-6], [no. 2]; pl. [2], figs. [1] ♀ V, [2] ♀ D, [3] ♂ V.

Original Combination: *Melitea* [sic!] *Frisia*

Type Locality: "Cuba...côte du Nord"

Types: Syntype (#7799) in ANSP.

= *gyges* (Hewitson, 1864)

Ill. exot. Butterflies 3(50): [24], pl. *Eresia* VI, figs. 45 ♂ D, 46 ♂ V.

Original Combination: *Eresia Gyges*

Type Locality: "Jamaica"

Types: Lectotype (#Rh8498) in BMNH, designated by Higgins (1981), Bull. Brit. Mus. (Nat. Hist.) Entomol. 43(3): 105.

743. **Anthanassa tulcis** (H. Bates, 1864)

Entomol. Mon. Mag. 1(4): 82, no. 37.

Original Combination: *Melitaea Tulcis*

Type Locality: "Guatemala, interior"; lectotype from "Guatemala: Central Valleys."

Types: Lectotype (#Rh8513) in BMNH, designated by Higgins (1981), Bull. Brit. Mus. (Nat. Hist.) Entomol. 43(3): 105.

= *genigueh* (Reakirt, [1866])

Proc. Entomol. Soc. Philad. 5(2): 225, no. 3.

Original Combination: *Eresia Genigueh*

Type Locality: "Los Angeles, Cal'a." in error.

Types: Syntypes possibly in FMNH.

= *archesilea* (R. Felder, 1869)

Verh. zool.-bot. Ges. Wien 19: 471, no. 19.

Original Combination: *Eresia Archesilea*

- Type Locality:** "Cordoba" [Veracruz, Mexico]
Types: Syntypes in NMW.
 = *punctata* (W. H. Edwards, 1870)
 Trans. Am. Entomol. Soc. 3(2): 189, 191-192, no. 5.
Original Combination: *Eresia Punctata*
Type Locality: "Southern Arizona"; suggested to be
 "vicinity of Tucson, Arizona" or "Northern Mexico" by F.
 Brown (1966), Trans. Am. Entomol. Soc. 92(3): 424-427.
 [Tucson is in Pima County]
Types: Holotype in CMNH, figured by W. Holland
 (1898), Butterfly Book: pl. 17, fig. 39 ♂ D, and F. Brown
 (1966), Trans. Am. Entomol. Soc. 92(3): 425, fig. 23 ♂
 D&V.
744. ***Anthanassa ptolyca*** (H. Bates, 1864)
 a. ***Anthanassa ptolyca ptolyca*** (H. Bates, 1864)
 Entomol. Mon. Mag. 1(4): 81, no. 34.
Original Combination: *Melitaea Ptoleca*
Type Locality: "Central Valleys of Guatemala"; lectotype
 from "Guatemala: Chisoy Valley."
Types: Lectotype (#Rh8448) in BMNH, designated by
 Higgins (1981), Bull. Brit. Mus. (Nat. Hist.) Entomol.
 43(3): 97; figured by Godman and Salvin (1882), Biol.
 centr.-amer., Lepid. Rhop. 3(21): pl. 21, figs. 32 ♂ D, 33
 ♂ V.
 = *carrera* (A. Hall, 1917)
 Entomol. 50(650): 162.
Original Combination: *Phyciodes carrera*
Type Locality: "Amatitlan, Guatemala. 4000 ft."
Types: Lectotype in BMNH, designated by Higgins
 (1981), Bull. Brit. Mus. (Nat. Hist.) Entomol. 43(3):
 97.
745. ***Anthanassa texana*** (W. H. Edwards, 1863)
 a. ***Anthanassa texana texana*** (W. H. Edwards, 1863)
 Proc. Entomol. Soc. Philad. 2(2): 78, 81, no. 5.
Original Combination: *Melitaea Texana*
Type Locality: "Texas"; probable holotype is from "Neu
 Braunfels, Comal Co., Texas."
Types: Probable holotype in CMNH, figured by W.
 Holland (1898), Butterfly Book: pl. 18, fig. 9 ♂ V, and F.
 Brown (1966), Trans. Am. Entomol. Soc. 92(3): fig. 22 ♂
 D&V.
 I.C.Z.N. *Opinion* 839 placed this name on the *Official List*
of Specific Names in Zoology as name no. 2226.
 = *smerdis* (Hewitson, 1864)
 Ill. exot. Butterflies 3(50): [21], pl. Eresia V, figs. 33
 ♂ D, 34 ♂ V.
Original Combination: *Eresia Smerdis*
Type Locality: "Mexico"
Types: Lectotype (#Rh8497) in BMNH, designated
 by Higgins (1981), Bull. Brit. Mus. (Nat. Hist.)
 Entomol. 43(3): 100.
- b. ***Anthanassa texana seminole*** (Skinner, 1911)
 Entomol. News 22(9): 412.
Original Combination: *Eresia texana seminole*
Type Locality: "Bainbridge, Georgia" [Decatur County]
Types: Syntypes (#7023) in CMNH.
 Opler and Krizek (1984), Butterflies East Great Plains:
 143-144, Watts and Habeck (1991), Trop. Lepid. 2(2):

- 103-106, and Ross [2005], Holarct. Lepid. 9(1-2): 1-30, suggested that this may be a species-level taxon, as it was treated by Calhoun (1997), Holarct. Lepid. 4(2): 46.
746. ***Anthanassa argentea*** (Godman & Salvin, 1882)
 Biol. centr.-amer. Lepid. Rhop. 1(18): 207, no. 37.
Original Combination: *Phyciodes argentea*
Type Locality: "Guatemala, Polochic valley...Choctum...Nicaragua, Chontales"; lectotype from "Choctum, Guatemala."
Types: Lectotype (#Rh8468) in BMNH, designated by Higgins (1981), Bull. Brit. Mus. (Nat. Hist.) Entomol. 43(3): 102.
 This species was recorded from Texas by Chuah and Cushing (1995), Trop. Lepid. 6(1): 43, figs. 2, 2a.

Genus *Phyciodes* Hübner, [1819]

Verz. bekannt. Schmett. (2): 29. Type-species: *Papilio cocyta* Cramer, 1777, Utitl. Kapellen 2(9): 7, pl. 101, figs. A, B; (16): 148 (index), by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 46. The arrangement of species in this genus follows Wahlberg *et al.* (2003), Syst. Entomol. 28(2): 257-273.

747. ***Phyciodes graphica*** (R. Felder, 1869)
 Verh. zool.-bot. Ges. Wien 19: 470, no. 17.
Original Combination: *Eresia graphica*
Type Locality: "Huahuapan" [Haujauapan de León, Oaxaca, Mexico]
Types: Syntypes possibly in NMW.
- = *vesta* (W. H. Edwards, 1869)
 Trans. Am. Entomol. Soc. 2(4): 371-372; figured by W. H. Edwards (1878), Butterflies N. Am. 2(7): pl. *Phyciodes* 2, figs. 18 ♂ V winter form, 19 ♀ D&V winter form, 20 ♂ D&V summer form, 21 ♀ V summer form.
Original Combination: *Melitaea Vesta*
Type Locality: "Texas"; neotype from "New Braunfels, Comal Co., Texas."
Types: Neotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 463, fig. 34 ♂ D&V.
- = *boucardi* Godman & Salvin, 1878
 Proc. Zool. Soc. Lond. 1878(1): 268, no. 9; discussed and figured by Godman and Salvin, 1882, Biol. centr.-amer. Lepid. Rhop. 1(18): 194; 3(19): pl. 21, figs. 16 ♂ D, 17 ♂ V.
Original Combination: *Phyciodes boucardi*
Type Locality: "Mexico, Putla" [Oaxaca]
Types: Holotype (#Rh8438) in BMNH.
- = *vestalis* A. Hall, 1929
 Bull. Hill. Mus. 3(1)(Suppl.): 52, (b).
Original Combination: *P[hyciodes]. vesta vestalis*
Type Locality: "Guatemala, Menocal (4,800 feet), Pamplona (5,200 feet), Moran (4,000 feet), Amatiblan (3,800 feet)."
Types: Holotype in BMNH.
- = ‡"*hiemalis*" W. H. Edwards, 1878
 Butterflies N. Am. 2(7): [181], pl. *Phyciodes* 2 figs. 18 ♂ D&V, 19 ♀ V.
Original Combination: [*Phyciodes Vesta*] form *Hiemalis*

- = ‡"aestiva" W. H. Edwards, 1878
 Butterflies N. Am. 2(7): [182], pl. *Phyciodes* 2 figs. 20
 ♂ D&V, 21 ♀ V.
Original Combination: [*Phyciodes Vesta*]
 form *Aestiva*
 The two names listed above were proposed in an informal manner, with no type data. F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 463, did not detail these names in his study of W. H. Edwards' types.
748. ***Phyciodes pallescens*** (R. Felder, 1869)
 Verh. zool.-bot. Ges. Wien 19: 469-470, no 16.
Original Combination: *Eresia pallescens*
Type Locality: "Puebla" [Mexico]
Types: Syntypes in NMW and BMNH; figured *in*: Seitz, Grossschmett. Erde 5(187): pl. 89f ♂ D.
 Recorded from the United States by Stanford (2007), News Lepid. Soc. 49(4):116, 117, 2 photos, and McDermott (2009), News Lepid. Soc. 51(4): 117, 125, 4 figs.
749. ***Phyciodes picta*** (W. H. Edwards, 1865)
 a. ***Phyciodes picta picta*** (W. H. Edwards, 1865)
 Proc. Entomol. Soc. Philad. 4(1): 201, no. 1.
Original Combination: *Melitaea picta*
Type Locality: "Nebraska Territory"; defined as "North Platte, Lincoln County, Nebraska" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 455.
Types: Lectotype in FMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 457, fig. 32 ♂ D&V.
 Species-genus gender conformation is *pictus*.
 b. ***Phyciodes picta canace*** W. H. Edwards, 1871
 Trans. Am. Entomol. Soc. 3(3/4): 205, 206-207, no. 3.
Original Combination: *Phyciodes Canace*
Type Locality: "Southern California"; corrected to "Arizona" by W. H. Edwards (1882), Papilio 2(2): 22; neotype from "vicinity of Tucson, Pima Co., Arizona."
Types: Neotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 461, fig. 33 ♂ D&V.
 = ‡"jemezensis" Brehme, 1913
 Entomol. News 24(5): 194, pl. 7, figs. 7 ♂ D, 8 ♂ V ("holotype").
Original Combination: *Phyciodes picta* ab. *jemezensis*
Type Locality: "Jemez Springs, New Mexico" [Sandoval County]
Types: Location of "holotype" not known, possibly in USNM.
750. ***Phyciodes orseis*** W. H. Edwards, 1871
 a. ***Phyciodes orseis orseis*** W. H. Edwards, 1871
 Trans. Am. Entomol. Soc. 3(3/4): 205, 206, no. 2.
Original Combination: *Phyciodes Orseis*
Type Locality: "Mt. St. Helena, Napa Co., California"
Types: Lectotype (#4482) in AMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 450, fig. 29 ♂ D&V.
 = ‡"edwardsi" Gunder, 1927
 Entomol. News 38(5): 135, no. 5, pl. 2, fig. 5 ♀ D ("holotype").

Original Combination: *Phyciodes orseis edwardsi* ♀ nov. tr. form

Type Locality: "California"

Types: "Holotype" in AMNH (USNM stated in original description).

b. *Phyciodes orseis herlani* Bauer, 1975

In: Howe, Butterflies N. Am.: 148, no. 10b, pl. 45, figs. 9

♂ D&V (holotype), 10 ♀ D&V.

Original Combination: [*Phyciodes (Phyciodes) orseis*] *herlani*

Type Locality: "Glenbrook Creek, Douglas County, Nevada, at an elevation of about 7000 feet"

Types: Holotype in Bauer collection; a paratype in NVMC.

751. *Phyciodes pallida* (W. H. Edwards, 1864)

a. *Phyciodes pallida pallida* (W. H. Edwards, 1864)

Proc. Entomol. Soc. Philad. 2(4): 501, 505, no. 6.

Original Combination: *Melitaea Pallida*

Type Locality: "Texas. Kansas"; neotype from "Flagstaff Mt., Boulder Colo." [Boulder County, Colorado]

Types: Neotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 448, fig. 28 ♀ D&V.

Species-genus gender conformation is *pallidus*.

= *mata* (Reakirt, 1866)

Proc. Entomol. Soc. Philad. 6(1): 142.

Original Combination: *Eresia mata*

Type Locality: "Rocky Mountains, Colorado Terr."; defined as "Flagstaff Mt., Boulder Colo." by Scott (1994), Papilio (n.s.) 7: 11. [Boulder County]

Types: Holotype in FMNH; figured by Strecker (1874), Lepid. Rhop. Het. (8): pl. 8, fig. 11 ♀ D&V.

b. *Phyciodes pallida barnesi* Skinner, 1897

Can. Entomol. 29(6): 155.

Original Combination: *Phyciodes Barnesi*

Type Locality: "Glenwood Springs, Colo." [Garfield County, Colorado]

Types: Syntypes (#7037) in CMNH, one figured by W. Holland (1898), Butterfly Book: 156, pl. 18, fig. 5 ♂ D.

752. *Phyciodes mylitta* (W. H. Edwards, 1861)

a. *Phyciodes mylitta mylitta* (W. H. Edwards, 1861)

Proc. Acad. Nat. Sci. Philad. 13(6): 160-161, no. 1.

Original Combination: *Melitaea mylitta*

Type Locality: "Texas; Kansas; California"; neotype from "Stanyan Hill, San Francisco, California." [San Francisco County]

Types: Neotype in CAS, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 442, fig. 27 ♂ D&V.

= *collina* (Behr, 1863)

Proc. Calif. Acad. Sci. [1]3(6): 86, no. 2.

Original Combination: *M[elitaea]. collina*

Type Locality: "California" implied from the title of the paper, "in the vicinity of San Francisco, and the hills of Contra Costa, especially on the grassy valleys, along creeks, and on hillsides" from the description; neotype from "Presidio, San Francisco, San Francisco County, California."

Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 100-101, figs. 34 ♂ D, 35 ♂ V.

Preoccupied by *Melitaea collina* Lederer, 1861, Wien. entomol. Monatschr. 5(5): 148, pl. 1, figs. 4, 5.

= *epula* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 55, no. 40.

Original Combination: *Melitaea Epula*

Type Locality: "De l'Interieur de la Californie"; defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 31.

Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 31, figs. 234 ♀ D, 235 ♀ V. Higgins (1981), Bull. Brit. Mus. (Nat. Hist.) Entomol. 43(3): 88, designated a lectotype in the in BMNH. Presumably, this was the specimen figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): 80, pl. 259, fig. 2176 ♂ D&V, and is not a syntype (Code Article 74.2).

= ‡"collinsi" Gunder, 1930

Bull. South. Calif. Acad. Sci. 29(2): 62, no. 75.

Original Combination: *Phyciodes mylitta* tr. f. *collinsi*

Type Locality: "Collins Ranch, Voltair, California" [San Joaquin County]

Types: "Holotype" in AMNH; figured by J. A. Comstock (1927), Butterflies Calif.: pl. 39, fig. 16 ♂ D.

= ‡"macyi" Fender, 1930

Entomol. News 41(6): 182.

Original Combination: *Phyciodes mylitta* n. aberr. *macyi*

Type Locality: "McMinnville, Oregon" [Yamhill County]

Types: Location of "holotype" not known.

b. *Phyciodes mylitta arizonensis* Bauer, 1975

In: Howe, Butterflies N. Am.: 149-150, no 12b, pl. 43, fig. 8 ♂ D&V.

Original Combination: [*Phyciodes (Phyciodes) mylitta*] *arizonensis*

Type Locality: Not stated; figured syntype from "Hannagan Meadows, White Mts., Greenlee Co., Ariz." [Arizona]

Types: Syntypes in Bauer collection.

753. *Phyciodes phaon* (W. H. Edwards, 1864)

a. *Phyciodes phaon phaon* (W. H. Edwards, 1864)

Proc. Entomol. Soc. Philad. 2(4): 501, 505-506, no. 7; figured by W. H. Edwards (1878), Butterflies N. Am. 2(7): pl. Phyciodes 2, figs. 14 ♂ V, 15 ♀ V, 16 ♂ D&V, 17 ♀ D&V.

Original Combination: *Melitaea Phaon*

Type Locality: "St. Simons Island, Georgia; Northern Georgia"; neotype from "San Simon Island, Glynn Co., Georgia."

Types: Neotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 437, fig. 26 ♂ D&V.

This taxon was figured by Hübner, [1810], Samml. exot. Schmett. 1: pl. [41], figs. 3 ♀ D, 4 ♀ V (as *gorgone*).

- = ‡"hiemalis" W. H. Edwards, 1878
Butterflies N. Am. 2(7): [179], pl. *Phyciodes* 2, figs. 14 ♂ V winter form, 15 ♀ V winter form.

Original Combination: [*Phyciodes Phaon*] form *Hiemalis*

- = ‡"aestiva" W. H. Edwards, 1878
Butterflies N. Am. 2(7): [179-180], pl. *Phyciodes* 2, figs. 16 ♂ D&V, 17 ♀ D&V.

Original Combination: [*Phyciodes Phaon*] form *Aestiva*

The two names listed above were proposed in an informal manner with no type data. F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 437, did not detail these names in his study of W. H. Edwards' types.

- = ‡"nox" (Gunder, 1928)
Can. Entomol. 60(7): 167, pl. B, figs. 17 ♂ D, 17a ♂ V ("holotype").

Original Combination: *Phyciodes gorgone* tr. f. *nox*

Type Locality: "Brownsville, Texas" [Cameron County]

Types: "Holotype" in USNM.

b. *Phyciodes phaon jalapeno* Scott, 1998

Papilio (n.s.) 10: 30, figs. 40 ♂ D (holotype), 41 ♀ D.

Original Combination: *Phyciodes (Phyciodes) phaon jalapeno*

Type Locality: "Mesa, Maricopa County Arizona"

Types: Holotype in BMNH.

- = ‡"thornei" Gunder, 1934
Can. Entomol. 66(6): 130-131.

Original Combination: *Phyciodes gorgone* tr. f. *thornei*

Type Locality: "Chula Vista, San Diego Co., Calif." [California]

Types: "Holotype" in AMNH.

754. *Phyciodes tharos* (Drury, 1773)

a. *Phyciodes tharos tharos* (Drury, 1773)

Illustr. Nat. Hist. 1: 43-44, pl. 21, figs. 5 ♂ D, 6 ♂ V (1770); 2: index (1773, name given).

Original Combination: [*Papilio Dan. Fest.*] *Tharos*

Type Locality: "New York"; neotype from "Van Courtlandt Park, New York City." [Bronx County]

Types: Type(s) may be in MAMU, but are probably lost. Neotype in AMNH, designated by Scott (1994), *Papilio* (n.s.) 7: 28, fig. 90 ♂ D.

- = *euclea* (Bergsträsser, [1780])
Nom. Ins. 4: 23-24, pl. 79, figs. 1 ♂ D, 2 ♂ V.

Original Combination: [*Papilio*] *Euclea*

Type Locality: "England"; stated to be "North America" by Higgins (1981), Bull. Brit. Mus. (Nat. Hist.) Entomol. 43(3): 85; neotype from "New York City and vicinity." [New York]

- Types:** Location of type(s) not known, probably lost. Neotype in AMNH, designated by Scott (1994), *Papilio* (n.s.) 7: 28, fig. 97 ♂ D.
- = *tharossa* (Godart, 1819)
In: Ency. méth. 9(Ins.)(1): (256), 289-290, no. 61; cited *Papilio cocyta* Cramer, 1777, Uitl. Kapellen 2(9): pl. 101, figs. A, B, C; (16): 148 (index), *Papilio tharos* Drury, 1773, Illustr. Nat. Hist. 1: 43-44, pl. 21, figs. 5, 6, and *Papilio euclea* (*sensu* Herbst (1780), *in:* Jablonsky, Natursyst. Ins., Schmett. 10: pl. 274, figs. 9, 10).
- Original Combination:** *Argynnis Tharossa*
Type Locality: "l'Amérique septentrionale, & particulièrement dans l'Etat de New York"
Types: Syntype in RSM. Grimshaw (1897), Trans. R. Soc. Edinburgh 39, part I(1): 4, noted a "type" in the Dufresne collection in Edinburgh.
 This name might represent an unjustified emendation of *tharos* Drury, [1773].
- = *packardii* Saunders, 1868
In: Packard, Guide Study Ins.: 256-257.
Original Combination: *Melitaea Packardii*
Type Locality: "near Grimsby, Ontario County, Canada"
Types: Location of type(s) not known, possibly in CNC; figured by W. H. Edwards (1878), Butterflies N. Am. 2(7): pl. Phyciodes 1, 11 ♀ V var. D, 12 ♂ V var. D.
- = *distincta* Bauer, 1975
In: Howe, Butterflies N. Am.: 144, no. 6b.
Original Combination: [*Phyciodes* (*Phyciodes*) *tharos*] *distincta*
Type Locality: "Calexico, Imperial County, California"
Types: Location of holotype not known.
- b. **Phyciodes tharos orantain** Scott, 1998
Papilio (n.s.) 10: 8-10, no. 4C, figs. 1 antennal club, 3 ♂ D (holotype), 4 ♀ D.
Original Combination: *Phyciodes* (*Phyciodes*) *tharos orantain*
Type Locality: "Barr Lake, Adams County Colorado (the privately-owned cattle pastures and ditches below the dam of this reservoir)"
Types: Holotype in BMNH.
- c. **Phyciodes tharos riocolorado** Scott, 1992
Papilio (n.s.) 6: 58; figured by Scott (1994), *Papilio* (n.s.) 7: figs. 1 dorsal view of gnathos and tegumen, 18 anterior edge of juxta, 23 right lateral view of papilla analis, 26 ductus bursa and bursa copulatrix, 82 ♂ V, 83 ♂ D, 84 ♀ D, 85 ♀ V.
Original Combination: *P[hyciodes] tharos riocolorado*
Type Locality: "wetland at Moab, Grand Co., Utah"
Types: Holotype in LACM.
755. **Phyciodes cocyta** (Cramer, 1777)
 a. **Phyciodes cocyta cocyta** (Cramer, 1777)
Uitl. Kapellen 2(9): 7, pl. 101, figs. A ♂ D, B ♂ V (fig. C ♀ V is not the same species); (16): 148 (index).



Original

Combination: *Pap[ilio]. Nymph[alis]. Phaler[ata]. Cocyta*

Type Locality: Not stated for figs. A and B, "Surinamen" "Suriname" for fig. C; neotype from "Black Rock, Cape Breton, Nova Scotia."

Types: Neotype in AMNH, designated by Scott (1994), *Papilio* (n.s.) 7: 36, fig. 111 ♂ D.

= *†morpheus* (Fabricius, 1775)
Syst. Entomol.: 530, no. 370.

Original

Combination: *P[apilio]. P[lebejus]. R[uralis]. Morpheus*

Type Locality: "America boreali"

Types: Type(s) probably lost.

Preoccupied by *Papilio morpheus* Pallas, 1771, Reise verschied. Prov. Russisch. Reichs 1, Anhang: 471, no. 64. Fabricius (1793), Entomol. Syst. 3(1): 155-156, no. 479, cited this name in association with *Papilio cocyta* Cramer, 1777.

= *arctica* dos Passos, 1935
Can. Entomol. 67(4): 87.

Original Combination: *Phyciodes tharos arctica*

Type Locality: "Port au Port, Table Mountain, Newfoundland" [Newfoundland and Labrador]

Types: Holotype in AMNH.

b. *Phyciodes cocyta selenis* (W. Kirby, 1837)

In: Richardson, Fauna Bor.-Am. [4]: 289, no. 1.

Original Combination: *Melitaea Selenis*

Type Locality: "North America"; defined as "Cumberland House Sask." by Scott (1994), *Papilio* (n.s.) 7: 35; neotype from "Grosky Rd., The Pas, Manitoba."

Types: Neotype in BMNH, designated by Scott (2006), *Papilio* (n.s.) 13: 15; figured by Scott (2006), *Papilio* (n.s.) 12: pl. 5, 4th row right ♂ D, 5th row right ♂ V.

= *marcia* (W. H. Edwards, 1868)
Trans. Am. Entomol. Soc. 2(2): 207-208.

Original Combination: *Melitaea Marcia*

Type Locality: "New York to Louisiana...Kanawha River, W. Va."; defined as "Hunter, Greene Co., New York" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 432; lectotype from "Coalburgh, Kanawha Valley, West Virginia." [Kanawha County]

Types: Lectotype in CMNH, designated by Gatrell (2004), Tax. Rep. Int. Lepid. Surv. 4(8): 9, fig. 43 ♂ D&V. A previous "lectotype" designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 433, fig. 25 ♂ D&V, is invalid since it is not a syntype (Code Article 74.2).

= *†reaghi* Reiff, 1913
Entomol. News 24(7): 305, pl. 10, figs. 1 ♀ D, 2 ♀ V ("holotype").

Original Combination: *Phyciodes tharos* form nov. *reaghi*

Type Locality: "Franklin, Mass." [Norfolk County, Massachusetts]

Types: "Holotype" in USNM.

= *†herse* G. Hall, 1924
J. N. Y. Entomol. Soc. 32(2): 110.

- Original Combination:** *Phyciodes tharos pascoensis* form vern. *herse*
Type Locality: "Taft, British Columbia"
Types: "Holotype" in AMNH.
- = ‡"nigrescens" G. Hall, 1924
 J. N. Y. Entomol. Soc. 32(2): 111.
Original Combination: *Phyciodes tharos pascoensis* f. ab. *nigrescens*
Type Locality: "Taft, B. C." [British Columbia]
Types: "Holotype" in AMNH.
- = ‡"dyari" Gunder, 1928
 Can. Entomol. 60(7): 167, pl. B, fig. 18 ♂ V ("holotype").
Original Combination: *Phyciodes tharos* tr. f. *dyari*
Type Locality: "Webster, N. H." [Merrimack County, New Hampshire]
Types: "Holotype" in AMNH.
- = ‡"mcdunnoughi" Gunder, 1928
 Can. Entomol. 60(7): 167, pl. B, figs. 19 ♀ D, 19a ♀ V ("holotype").
Original Combination: *Phyciodes campestris* tr. f. *mcdunnoughi*
Type Locality: "Olds ?, T. N. W." [Alberta]
Types: "Holotype" in CNC.
 dos Passos (1964), Mem. Lepid. Soc. (1): 82, spelled this name *macdunnoughi*, representing an unjustified emendation.
- c. **Phyciodes cocyta diminutor** Scott, 1998
 Papilio (n.s.) 10: 13-14, figs. 5 ♂ D (holotype), 6 ♀ D, 7 ♂ D, 8 ♂ D, 9 ♂ D, 10 ♀ D, 11 ♀ D, 12 ♂ D, 13 ♂ D, 14 ♂ D, 15 ♀ D, 16 ♀ D, 17 ♀ D.
Original Combination: *Phyciodes (Phyciodes) cocyta diminutor*
Type Locality: "NE Conger, Freeborn County Minnesota"
Types: Holotype in BMNH.
- d. **Phyciodes cocyta incognitus** Gatrell, 2004
 Tax. Rep. Int. Lepid. Surv. 4(8): 17-18, figs. 1, 2, 5, 6 (left larval head capsules), 10, 14 (mature larva), 27 ♂ V, 28 ♀ V, 30 ♂ D (holotype), 31 ♀ D, 32 ♂ D&V, 33 ♀ D&V, 35 ♂ V (holotype), 36 ♀ V, 38 ♂ D&V, G, H, J, K ♂ genitalia, N, O, P (pupa).
Original Combination: *Phyciodes incognitus*
Type Locality: "Georgia: Union County, Duncan Ridge Road"
Types: Holotype in MGCL.
- e. **Phyciodes cocyta pascoensis** W. G. Wright, 1905
 Butterflies W. Coast: 55, no. 198; 165, no. 198, pl. 21, figs. 198 ♂ D (lectotype), 198a ♂ V.
Original Combination: [*Phyciodes Nycteis* var.] *Pascoensis*; *Phyciodes Pascoensis* n. s.
Type Locality: "Eastern Oregon"; "Pasco, Franklin County, Washington" implied from the formation of the name.
Types: Lectotype (#4308) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 23.
- f. **Phyciodes cocyta arenacolor** Austin, 1998



Syst. W. N. Am. Butterflies (46): 577, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V.

Original Combination: *Phyciodes pascoensis arenacolor*

Type Locality: "Nevada: White Pine County; Steptoe Valley, Warm Springs, 1798 m, T21N R63E S25 on USGS Monte Neva Hot Springs, Nev. quadrangle, 7.5' series"

Types: Holotype in MGCL.

756. **Phyciodes batesii** (Reakirt, [1866])

a. **Phyciodes batesii anasazi** Scott, 1994

Papilio (n.s.) 7: 61-63, no. 6D, figs. 161 ♂ V, 162 ♂ D, 163 ♀ D, 164 ♀ V, 165 ♂ V, 166 ♂ D, 167 ♀ D, 168 ♀ V, 169 ♂ V, 170 ♂ D, 171 ♀ D, 172 ♀ V.

Original Combination: *Phyciodes (Phyciodes) batesii anasazi*

Type Locality: "near Gateway, Mesa Co. Colo." [Colorado]

Types: Holotype in BMNH.

b. **Phyciodes batesii apsaalooke** Scott, 1994

Papilio (n.s.) 7: 56-58, no. 6C, figs. 19 ventral view of saccus, 149 ♂ V, 150 ♂ D, 151 ♀ D, 152 ♀ V, 153 ♂ V, 154 ♂ D, 155 ♀ D, 156 ♀ V, 157 ♂ V, 158 ♂ D, 159 ♀ D, 160 ♀ V.

Original Combination: *Phyciodes (Phyciodes) batesii apsaalooke*

Type Locality: "W Hidden Basin Cgd., Bighorn Co. Wyo." [Wyoming]

Types: Holotype in BMNH.

c. **Phyciodes batesii lakota** Scott, 1994

Papilio (n.s.) 7: 50-52, no. 6B, figs. 137 ♂ V, 138 ♂ D, 139 ♀ D, 140 ♀ V, 141 ♂ V, 142 ♂ D, 143 ♀ D, 144 ♀ V, 145 ♂ V, 146 ♂ D, 147 ♀ D, 148 ♀ V, 173 ♂ V, 174 ♂ V, 175 ♂ V, 176 ♂ D, 177 ♂ D.

Original Combination: *Phyciodes (Phyciodes) batesii lakota*

Type Locality: "Pine Ridge, Sioux Co. Neb." [Nebraska]

Types: Holotype in BMNH.

d. **Phyciodes batesii saskatchewan** Scott, 2006

Papilio (n.s.) 13: 22-23; figured by Scott (2006), Papilio (n.s.) 12: 6th row right ♂ D&V (holotype).

Original Combination: *Phyciodes batesii saskatchewan*

Type Locality: "Halfway Lake (N of Edmonton near Clyde) Alberta"

Types: Holotype in BMNH.

= ‡"harperi" Gunder, 1932

Can. Entomol. 64(12): 283-284.

Original Combination: *Phyciodes batesii* tr. f. *harperi*

Type Locality: "McCreary, Manitoba, Canada"

Types: "Holotype" in AMNH.

e. **Phyciodes batesii batesii** (Reakirt, [1866])

Proc. Entomol. Soc. Philad. 5(2): 226, no. 4.

Original Combination: *Eresia Batesii*

Type Locality: "Winchester, Va.; Gloucester, N. J." Klots (1951), Field Guide Butterflies N. Am.: 100, stated that the type locality is "Gloucester, New Jersey"; corrected to "Winchester Va." by Scott (1994), Papilio (n.s.) 7: 44,

since the only extant syntype is from Winchester.
[Frederick County, Virginia]

Types: Syntype in FMNH, figured by Gatrell (1998),
Tax. Rep. Int. Lepid. Surv. 1(3): fig. 14 ♂ D&V.

- f. **Phyciodes batesii maconensis** Gatrell, 1998
Tax. Rep. Int. Lepid. Surv. 1(3): 4-5, figs. 11 ♂ D&V
(holotype), 12 ♀ D&V.

Original Combination: *Phyciodes batesii maconensis*

Type Locality: "Jones Knob, 4100', Macon County,
North Carolina"

Types: Holotype in MGCL.

757. **Phyciodes pulchella** (Boisduval, 1852)

The use of this name over *campestris* (Behr, 1863)
and *pratensis* (Behr, 1863), follows Scott (1994), Papilio
(n.s.) 7: 65-73, reiterated by Kondla and C. Guppy (2002), J.
Lepid. Soc. 56(3): 171-172. While the various aspects of the
applicability of this name were discussed by these authors,
some dispute the issue (e.g., Layberry, *et al.* (1998),
Butterflies Can.: 191), and a petition to the I.C.Z.N. may be
needed to resolve the matter.

- a. **Phyciodes pulchella tutchone** Scott, 1994

Papilio (n.s.) 7: 75, no. 7B, figs. 189 ♂ D, 190 ♂ D, 191
♂ V, 192 ♀ D.

Original Combination: *Phyciodes (Phyciodes) pulchella*
tutchone

Type Locality: "Nickel Creek, 4000 feet, SW Yukon"

Types: Holotype in BMNH.

- b. **Phyciodes pulchella owimba** Scott, 1998

Papilio (n.s.) 10: 26-27, figs. 36 ♂ D (holotype), 37 ♀ D.

Original Combination: *Phyciodes (Phyciodes) pulchella*
owimba

Type Locality: "Pattee Canyon, 3500', Missoula County,
Montana"

Types: Holotype in BMNH.

- c. **Phyciodes pulchella pulchella** (Boisduval, 1852)

Ann. Soc. Entomol. Fr. (2)10(2): 306, no. 49.

Original Combination: *Melitaea pulchella*

Type Locality: "dans une grande partie de la Californie";
redefined as "dans le centre de la Californie" by
Boisduval (1868), Annls. Soc. Entomol. Belg. 12: 20, no.
50; defined as "San Francisco, California" by Scott
(1994), Papilio (n.s.) 7: 73. [San Francisco County]

Types: Lectotype in USNM, designated by J. Emmel *et al.*
(1998), Syst. W. N. Am. Butterflies (2): 18, figs. 102 ♂
D, 103 ♂ V. This specimen was earlier designated as
neotype by Scott (1994), Papilio (n.s.) 7: 72, figs. 179 ♂
D, 180 ♂ V, but it appears to be a syntype.

Species-genus gender conformation is *pulchellus*.

= *pratensis* (Behr, 1863)

Proc. Calif. Acad. Sci. [1]3(6): 86, no. 4.

Original Combination: *M[elitaea]. pratensis*

Type Locality: "California" implied from the title of
the paper, "on grassy hillsides...in some localities
near San Francisco" from the description; neotype
from "Old Cemetery, San Francisco, San Francisco
County, California."

Types: Type(s) destroyed in the 1906 San Francisco
earthquake and fire; neotype in CAS, designated by

- J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 99, figs. 25 ♂ D, 26 ♂ V.
 = *campestris* (Behr, 1863)
 Proc. Calif. Acad. Sci. [1]3(6): 86, no. 3.
Original Combination: *M[elitaea]. campestris*
Type Locality: "California" implied from the title of the paper, "especially on marshy places...peculiar to the lower regions" from the description; neotype from "Old Cemetery, San Francisco, San Francisco County, California."
Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 100, figs. 28 ♀ D, 29 ♀ V.
 As first reviser, precedence was given to *pratensis* over *campestris* by W. H. Edwards (1872), Synop. N. A. Butterflies: 18, no. 15.
- d. **Phyciodes pulchella deltarufa** Scott, 1998
 Papilio (n.s.) 10: 25-26, no. 7B, figs. 34 ♂ D (holotype), 35 ♀ D.
Original Combination: *Phyciodes (Phyciodes) pulchella deltarufa*
Type Locality: "Willow Slough just north of Davis, Yolo County California"
Types: Holotype in BMNH.
- e. **Phyciodes pulchella montana** (Behr, 1863)
 Proc. Calif. Acad. Sci. [1]3(6): 85-86, no. 1.
Original Combination: *M[elitaea]. montana*
Type Locality: "California" implied from the title of the paper, "in the neighborhood of Los Angeles...at the headwaters of the Tuolumne River...from Yosemite Valley" from the description; neotype from "Tuolumne Meadows, Tuolumne County, California."
Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in LACM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 100, figs. 31 ♂ D, 32 ♂ V.
 = *orsa* (Boisduval, 1869)
 Annls. Soc. Entomol. Belg. 12: 55, no. 41; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 259, fig. 2178 ♂ D&V (lectotype), 2179 ♀ D&V.
Original Combination: *Melitaea Orsa*
Type Locality: "Interieur de la Californie"; defined as "Gold Lake, Sierra County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 32.
Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 32, figs. 237 ♂ D, 238 ♂ V. A "lectotype" in BMNH, designated by Higgins (1981), Bull. Brit. Mus. (Nat. Hist.) Entomol. 43(3): 88, could not be located by J. Emmel *et al.* (1998), *ibid.*, and is probably not a syntype (Code Article 74.2).
- f. **Phyciodes pulchella vallis** Austin, 1998
 Syst. W. N. Am. Butterflies (61):740-741, figs. 1 second row left ♂ D, 2 second row left ♂ V (holotype), 1 second row right ♀ D, 2 second row right ♀ V.
Original Combination: *Phyciodes pulchellus vallis*



Type Locality: "Nevada: Lyon County; Sweetwater Mountains, Nevada state route 338, Garden Canyon, 1820 m, T9N R24E S36 on USGS Pine Grove Hills, Nev. and Desert Creek Peak, Nev. 15' quadrangles"

Types: Holotype in MGCL.

- g. **Phyciodes pulchella inornatus** Austin, 1998
Syst. W. N. Am. Butterflies (61): 739, figs. 1 top left ♂ D, 2 top left ♂ V (holotype); 1 top right ♀ D, 2 top right ♀ V.
Original Combination: *Phyciodes pulchellus inornatus*
Type Locality: "Nevada: Pershing County; Sonoma Range, Clearwater Canyon, Clear Creek, 2.9 road miles east of Grass Valley Road, 1500 m, T33N R38E S13 on USGS Leach Hot Springs, Nev. 15' quadrangle"
Types: Holotype in MGCL.
- h. **Phyciodes pulchella shoshoni** Scott, 1994
Papilio (n.s.) 7: 76, no. 7D, figs. 193 ♂ V, 194 ♂ D, 195 ♀ D, 196 ♀ V.
Original Combination: *Phyciodes (Phyciodes) pulchella shoshoni*
Type Locality: "along Humboldt River near Battle Mtn., Elko Co., Nev." [Nevada]
Types: Holotype in BMNH.
- i. **Phyciodes pulchella camillus** W. H. Edwards, 1871
Trans. Am. Entomol. Soc. 3(3/4): 266, 268-269, no. 4.
Original Combination: *Phyciodes Camillus*
Type Locality: "Colorado"; defined as "Fairplay, Park County, Colorado" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 451.
Types: Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 453, fig. 30 ♂ D&V.
= *emissa* W. H. Edwards, 1871
Trans. Am. Entomol. Soc. 3(3/4): 266, 269-270, no. 5.
Original Combination: *Phyciodes Emissa*
Type Locality: "Colorado"; defined as "Denver, Denver County, Colorado" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 451.
Types: Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 455, fig. 31 ♀ D&V.
= ‡"rohweri" T. Cockerell, 1913
Entomol. 46(606): 308, fig. 1 ("holotype").
Original Combination: [*Phyciodes camillus*]
Ab. rohweri
Type Locality: "North Boulder Creek, Boulder County, Colorado, in the Canadian Zone"
Types: "Holotype" in USNM.
= ‡"tristis" T. Cockerell, 1913
Entomol. 46(606): 308, fig. 2 ("holotype").
Original Combination: [*Phyciodes camillus*]
Ab. tristis
Type Locality: "Jim Creek, Boulder County, Colorado"
Types: "Holotype" in USNM.
- j. **Phyciodes pulchella sacramento** Scott, 2006
Papilio (n.s.) 13: 27; figured by Scott (2006), Papilio (n.s.) 12: pl 4, 3rd row right ♂ D&V (holotype).

Original Combination: *Phyciodes pulchella sacramento*

Type Locality: "1 mi. E Cloudcroft, Sacramento Mts., Otero Co. New Mex." [New Mexico]

Types: Holotype in BMNH.

Subfamily **Charaxinae** Guenée, 1865

In: Vinson, Voy. Madag. Annex F: 28 (as "Charaxidae"). Type-genus: *Charaxes* Ochsenheimer, 1816, Schmett. Europa 4: 18. *Opinion 577* placed *Charaxes* on the *Official List of Generic Names in Zoology* as name no. 1386. The same *Opinion* placed Charaxinae Doherty, 1886, J. asiat. Soc. Bengal 55, Pt. II(2): 109, on the *Official List of Family-group Names in Zoology* as name no. 284, Charaxeidi Wheeler, 1903, Butterflies Switz.: 99, 149, and Charaxidinae Aurivillius, 1911, *in:* Seitz, Grossschmett. Erde 13(107): 122 (as incorrect subsequent spellings) on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* as names no. 321 and 322, respectively. The family-group as proposed by Guenée antedates Doherty's name and requires an application to the I.C.Z.N. to correct the *Official List*.

Tribe **Preponini** Rydon, 1971

Entomol. Rec. 83(8): 232; (10): 310 (as "*Preponinae*"); (10): 313 (as "*Preponini*"), 314 (as "*Preponina*"). Type-genus: *Prepona* Boisduval, 1836, Spec. gén. Lépid. 1: pl. 7 [=3B].

Genus **Archaeoprepona** Fruhstorfer, 1915

Entomol. Rundsch 32 (8): 45. Type-species: *Papilio demophon* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 464, no. 36, by original designation.

= ‡*Pseudoprepona* Le Moul, 1932
Novit. Entomol. 2(suppl. 1): vii. Type-species: *Papilio demophon* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 464, no. 36, by original designation. A junior objective synonym of *Archaeoprepona* Fruhstorfer, 1915.

- 758. *Archaeoprepona demophon*** (Linnaeus, 1758)
Syst. Nat. (ed. 10) 1: 464, no. 36; figured by Clerck [1764], Icon. Ins. 2: pl. 35, fig. 2 ♂ D&V.
Original Combination: *P[apilio]. E[ques] Archivus] Demophon*
Type Locality: "Indiis"
Types: Type(s) probably lost.
- = *luctuosus* (Walch, 1775)
Naturforscher 7: 113, pl. 1, figs. 1a ♂ D, 1b ♂ V.
Original Combination: [*Papilio eques*] *Luctuosus*
Type Locality: "Ostindien"
Types: Type(s) probably lost.
- = *sysiphus* (Cramer, [1777])
Uitl. Kapellen 2(14): 96-97, pl. 158, fig. C ♂ V; (16): 151 (index).
Original Combination: *Pap[ilio]. Nymph[alis]. Phalera[us]. Sysiphus*
Type Locality: Not stated
Types: Type(s) probably lost.
- a. *Archaeoprepona demophon centralis*** (Fruhstorfer, 1905)
Deutsche entomologische Zeitschrift "Iris" 17(2): 284, 297.
Original Combination: *Prepona demophon centralis*
Type Locality: "Honduras"
Types: Location of type(s) not known, possibly in ZMHB or BMNH.

Recorded from Texas by Bordelon (2008), News Lepid. Soc. 50(supplement S1): 91.



Tribe **Anaeini** Reuter, 1896

Acta Soc. Sci. fenn. 22(1): 515, 555, 557 (as "Anaeidi"). Type-genus: *Anaea* Hübner, [1819], Verz. bekannt. Schmett. (3): 48.

Genus **Anaea** Hübner, [1819]

Verz. bekannt. Schmett. (3): 48. Type-species: *Papilio troglodyta* Fabricius, 1775, Syst. Entomol.: 502, no. 250, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 111, no. 71.

= ‡*Pyrrhanaea* Röber, [1888]

In: Schatz, Exot. Schmett. 2(4): 170, pl. 28. Type-species: *Papilio troglodyta* Fabricius, 1775, Syst. Entomol.: 502, no. 250, by monotypy. A junior objective synonym of *Anaea* Hübner, [1819].

*759. **Anaea troglodyta** (Fabricius, 1775)

Syst. Entomol.: 502, no. 250.

Original

Combination: *P[apilio]*. *N[ymphalis]*. *P[halerata]*. *Troglodyta*

Type Locality: "America"; defined as "Hispaniola" by F. Johnson and W. Comstock (1961), J. N. Y. Entomol. Soc. 49(4): 312.

Types: Lectotype in ZMUC, designated by Wetherbee (1991), Two Cent. Expl. Hispaniola Butterflies: 14.

a. *Anaea troglodyta florldalis* F. Johnson & W. Comstock, 1941

J. N. Y. Entomol. Soc. 49(4): 307-308, figs. 10, 11 ♂ genitalia; cited *Anaea portia* (*sensu* Röber (1916), *in*: Seitz, Grossschmett. Erde 5(255): pl. 117d).

Original Combination: *Anaea aidea florldalis*

Type Locality: "Florida...Florida City" [Miami-Dade County]

Types: Holotype in AMNH.

= ‡"floraesta" F. Johnson & W. Comstock, 1941 J. N. Y. Entomol. Soc. 49(4): 309.

Original Combination: *Anaea aidea florldalis* summer form *floraesta*

Type Locality: "Florida...Brickell Hammock, Miami" [Miami-Dade County]

Types: "Holotype" in AMNH.

760. **Anaea aidea** (Guérin-Méneville, [1844])

Icon. Règne Anim. Cuvier (Ins.) 3: 478.

Original Combination: *Nymphalis* (*Thymetes*?) *Aidea*

Type Locality: "baie de Campêche, ou elle a été prise par M Perbosc à plus d'une lieue en mer, sur son bâtiment" The Bay of Campêche abuts the states of Veracruz, Tabasco and Campeche. [Mexico]

Types: Syntype(s) possibly in MNHP or BMNH.

= *morrisonii* (W. H. Edwards, 1883) Can. Entomol. 15(2): 35-36.

Original Combination: *Paphia morrisonii*

Type Locality: "Western Texas...Mt. Graham, Arizona"; lectotype from "Mount Graham, Cochise County [*sic*!], Arizona." [Graham County]

Types: Lectotype in CMNH, designated by F. Johnson and W. Comstock (1961), J. N. Y. Entomol. Soc. 49(4):

306-307; figured by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 391, fig. 23 ♀ D&V.

= *appiciata* Röber, 1916

In: Seitz, Grossschmett. Erde 5(248): 582.

Original Combination: [*Anaea troglodyta*] *appiciata*

Type Locality: "Mexiko"

Types: Lectotype in ZMHB, designated by Lamas (1995), Shilap Revta Lepid. 23(92): 354.

761. *Anaea andria* Scudder, 1875

Bull. Buffalo Soc. Nat. Sci. 2(4): 248, no. 59; cited *Paphia glycerium* (sensu C. Riley (1877), Am. Entomol. 2(4): 121-123, figs. 82 ♂ D, fig. 83 ♀ D, and W. H. Edwards (1871), Butterflies N. Am. [1](7): pl. Paphia 1, figs. 1-6).

Original Combination: [*Anaea*] *Andria*

Type Locality: "Mississippi Valley, westward to Great Plains; Texas"; C. Riley (1877) *ibid.*, noted "Missouri, Texas, and Illinois," and derived material for rearing and description from "Woodburn, Ills...Sedalia, Mo."; W. H. Edwards (1871), stated "prairies of Illinois, Missouri, Kansas and Texas...Sedalia, Mo."; F. Johnson and W. Comstock (1941), J. N. Y. Entomol. Soc. 49(4): 393, suggested that W. H. Edwards' figures are probably from "Illinois or Missouri."

Types: Syntypes may be in CMNH (W. H. Edwards collection), but might be lost.

= *ops* (H. Druce, 1877)

Proc. Zool. Soc. Lond. 1877(3): 633.

Original Combination: *Paphia ops*

Type Locality: "Texas"

Types: Holotype (#10370) in BMNH.

Described in text as a "form of *P. aidea*," but clearly proposed as "sp. n."

= ‡"andriaesta" F. Johnson & W. Comstock, 1941 J. N. Y. Entomol. Soc. 49(4): 303-304.

Original Combination: *Anaea andria* summer form *andriaesta*

Type Locality: "Alexandria, Louisiana" [Rapides Parish]

Types: "Holotype" in AMNH.

‡"morrisonii" Scott, 1986

Butterflies N. Am.: 253, no. 136.

Original Combination: [*Anaea andria*]

fall...form *morrisonii*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

Genus *Fountainea* Rydon, 1971

Entomol. Rec. & J. Var. 83(11): 339. Type-species: *Anaea phidile* Geyer, 1837, in: Hübner Zutr. Samml. Exot. Schmett. 5: pl. [156], figs. 905, 906; 27, no. 453, by original designation.

762. *Fountainea glycerium* (E. Doubleday, [1849])

a. *Fountainea glycerium glycerium* (E. Doubleday, [1849])

In: Gen. diurn. Lepid. (2): pl. 50, fig. 1 ♂ D; 2(38): 319, no. 10 (Westwood, 1850).

Original Combination: *Paphia Glycerium*

Type Locality: "Mexico"

Types: Syntype (#10714) in BMNH.

Genus **Memphis** Hübner, [1819]

Verz. bekannt. Schmett. (3): 48. Type-species: *Papilio odilia* Stoll, 1780, Uitl. Kapellen 4(28): 79, pl. 329, figs. C, D; (34): 251 (index) (= *Papilio polycarmes* Fabricius, 1775, Syst. Entomol. 484, no. 181), by original designation. As first reviser, W. F. Kirby (1871), Syn. Cat. diurn. Lepid.: 276, accorded precedence to *Anaea* over *Memphis*.

- = ‡*Corycia* Hübner, [1825]
Samml. exot. Schmett. 2: pl. [55]. Type-species: *Corycia appias* Hübner, [1825], Samml. exot. Schmett. 2: pl. [55], figs. 1, 2, 3, 4, by monotypy. Preoccupied by *Corycia* Hübner, [1823], Verz. bekannt. Schmett. (17): 265.
- = *Cymatogramma* E. Doubleday, [1849]
In: Gen. diurn. Lepid. (2): pl. 49, fig. 4; (2)(38): 315-316 (Westwood, 1850). Type-species: *Cymatogramma echemus* E. Doubleday, [1849], *in*: Gen. diurn. Lepid. (2): pl. 49, fig. 4; (2)(38): 316, no. 1 (Westwood, 1850), by monotypy.
- = *Euschatzia* Grote, 1898
Proc. Am. Phil. Soc. 37(157): 39. Type-species: *Papilio morvus* Fabricius, 1775, Syst. Entomol.: 484, no. 184, by original designation.
- = *Fountainea* Rydon, 1971
Entomol. Rec. & J. Var. 83(11): 339. Type-species: *Anaea phidile* Geyer, 1837, *in*: Hübner Zutr. Samml. Exot. Schmett. 5: pl. [156], figs. 905, 906; 27, no. 453, by original designation.
- = *Rydonia* Salazar & Constantino, 2001
Lambillionea 101(2, suppl. 3) : 359, figs. 5A-B, 10. Type species: *Paphia pasibula* E. Doubleday, [1849], *in*: Gen. diurn. Lepid. (2): pl. 50, fig. 3 [1849]; (38): 319, no. 26 (Westwood, 1850), by original designation.
- = *Annagrapha* Salazar & Constantino, 2001
Lambillionea 101(2, suppl. 3) : 359, figs. 6A-B, 11. Type-species: *Paphia aureola* H. Bates, 1866, Entomol. Mon. Mag. 3(31): 152, no. 108, by original designation.

verticordia group W. Comstock, 1961
Butterflies Am. Tropics: 81.

763. **Memphis echemus** (E. Doubleday, [1849])

- a. **Memphis echemus echemus** (E. Doubleday, [1849])
In: Gen. diurn. Lepid. (1): pl. 49, fig. 4 ♂ D; 2(38): 316, no. 1 (Westwood, 1850).

Original Combination: *Cymatogramma Echemus*

Type Locality: "Honduras" in error; suggested to be "Cuba" by F. Johnson and W. Comstock (1941), J. N. Y. Entomol. Soc. 49(4): 329.

Types: Syntype (#10364) in BMNH.

The arrangement presented follows Smith *et al.* (1994), Butterflies W. Ind. & Fla.: 68-69. The single record of this species from the United States (R. Kendall and McGuire (1984), Bull. Allyn Mus. (86): 38-39, figs. 36 ♀ D, 36a ♀ V) apparently represents a rare stray or human-assisted import.

- = *poeyi* (Lucas, 1857)

In: Sagra, Hist. Cuba 7(2): 562-563.

Original Combination: *Megalura Poeyi*

Type Locality: "environs de la Havane" [Cuba]

Types: Location of type(s) not known, possibly in MNHP.

- = ‡"aguayoi" S. Torre, 1951
Proc. Entomol. Soc. Wash. 53(6): 336-337, fig. 1
♂ D (holotype).
Original Combination: *Anaea*
echemus form *aguayoi*
Type Locality: "Ciudamar, Santiago de Cuba,
Oriente" [Cuba]
Types: "Holotype" (#3345) in IZAC.
The text clearly indicates that this taxon was
described as a seasonal form.

arginussa group W. Comstock, 1961
Butterflies Am. Tropics: 87.

- 764. *Memphis pithyusa* (R. Felder, 1869)**
a. *Memphis pithyusa pithyusa* (R. Felder, 1869)
Verh. zool.-bot. Ges. Wien 19: 473-474, no. 27.
Original Combination: *Nymphalis Pithyusa*
Type Locality: "Potrero" [Veracruz, Mexico]
Types: Holotype in BMNH.
= ‡"daguana" (Bargmann, 1929)
Entomol. Anz. (Wien) 9(55): 34.
Original Combination: *Memphis*
pithyusa forma *daguana*
Type Locality: Not stated; "Rio Dagua,
Colombia" implied from the formation of the
name.
Types: Location of "type(s)" not known.
The text clearly indicates that this taxon was
described as an individual variant.

polycarmes group W. Comstock, 1961
Butterflies Am. Tropics: 107.

- 765. *Memphis forreri* (Godman & Salvin, 1893)**
Biol. centr.-amer., Lepid. Rhop. 1(31): 350, no. 25; 2(166):
698; 3(31): pl. 34, figs. 3 ♂ D, 4 ♂ V.
Original Combination: *Anaea forreri*
Type Locality: "Mexico, Presidio near Mazatlan" [Sinaloa]
Types: Holotype in BMNH.
Recorded from Texas by Bordelon (2008), News Lepid. Soc.
50(supplement S1): 91.

Subfamily **Satyrinae** Boisduval, [1833]

Icon. Hist. Lépid. Europ. 1(12): 128 (as "Satyrides"). Type-genus: *Satyrus* Latreille, 1810, Consid. gén.
Anim. Crust. Arach. Ins.: 355, 440. I.C.Z.N. *Direction* 99 placed Satyridae on the *Official List of Family-
Group Names in Zoology* as name no. 226; the same *Direction* placed Satyrides on the *Official Index
of Rejected and Invalid Family-Group Names in Zoology* as name no. 264. I.C.Z.N. *Opinion*
142 placed *Satyrus* on the *Official List of Generic Names in Zoology* as name no. 596. The family-
group name *Hipparchiinae* Swainson, 1820, Zool. Illustr. (1)1(1): pl. 11, unnumbered text, is senior
to *Satyrinae*. Code Article 23.2 clearly states that if the application of the Principle of Priority disturbs
stability or universality and causes confusion that existing usage is to be maintained. The long and
consistent use of *Satyridae* overwhelms priority, and the traditional listing is maintained.

Tribe **Morphini** Newman, 1834

Entomol. Magaz. 2(4): 379, 381 (as "Morphites"). Type-genus: *Morpho* [Fabricius], 1807, in: Illiger,
Mag. f. Insektenk. 6: 280, no. 5. I.C.Z.N. *Opinion* 137 placed *Morpho* on the *Official List of Generic
Names in Zoology* as name no. 564. I.C.Z.N. *Direction* 99 placed Morphidae Westwood, (1851), in:
Gen. diurn. Lepid. (2)(38): 332, on the *Official List of Family-Group Names in Zoology* as name no.
225; I.C.Z.N. *Direction* 113 corrected the entry in the *Official List* as above; the same *Direction* placed
Morphites Newman, 1834, and Morphoidae Agassiz, 1847, on the *Official Index of Rejected and
Invalid Names in Zoology* as names no. 493 and 494, respectively.

Subtribe **Morphina** Newman, 1834

Genus **Morpho** [Fabricius], 1807

In: Illiger, Mag. f. Insektenk. 6: 280. Type-species: *Papilio achilles* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 463-464, no. 32, by designation of Westwood (1851), in: Gen. diurn. Lepid. (2)(40): 341.

I.C.Z.N. *Opinion* 137 placed this name on the *Official List of Generic Names in Zoology* as name no. 564.

- = ‡*Heliornis* Billberg, 1820
Enum. Ins. Mus. Billb.: 79. Type-species: *Papilio achilles* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 463-464, no. 32, by designation of Hemming (1934), Entomol. 67(849): 37. A junior objective synonym of *Morpho* [Fabricius], 1807.
- = ‡*Brassolis* [Illiger], 1807
Allg. Lit.-Zeit. 2(303): 1181. Type-species: *Potamis leonte* Hübner, [1807], Samml. exot. Schmett. 1: pl. [79], figs. 1, 2 (= *Papilio achilles* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 463-464, no. 32), by designation of Hemming (1964), Annot. Lepid. (4): 122. I.C.Z.N. *Opinion* 232 suppressed this name and placed it on the *Official List of Generic Names in Zoology* as name no. 38.
- = ‡*Potamis* Hübner, [1807]
Samml. exot. Schmett. 1: pl. [79]. Type-species: *Potamis leonte* Hübner, [1807], Samml. exot. Schmett. 1: pl. [79], figs. 1, 2 (= *Papilio achilles* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 463-464, no. 32), by monotypy. I.C.Z.N. *Opinion* 137 gave precedence to *Morpho* [Fabricius], 1807, over *Potamis* Hübner, [1807]. I.C.Z.N. *Direction* 4 suppressed the name *Potamis* for the purposes of priority, but not homonymy, and placed it on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 212.
- = *Megamede* Hübner, [1819]
Verz. bekannt. Schmett. (4): 50. Type-species: *Papilio rhetenor* Cramer, 1775, Uitl. Kapellen 1(2): 22-23, pl. 15, figs. A, B; (8): 154 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 213, no. 662.
- = *Leonte* Hübner, [1819]
Verz. bekannt. Schmett. (4): 52. Type-species: *Potamis leonte* Hübner, [1807], Samml. exot. Schmett. 1: pl. [79], figs. 1, 2 (= *Papilio achilles* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 463-464, no. 32), by tautonymy.
- = *Iphimedeia* Fruhstorfer, 1912
In: Seitz, Grossschmett. Erde 5(152): 335. Type-species: *Papilio hercules* Dalman, 1823, Analecta Entomol.: 40, no. 6, by designation of Hemming (1943), Proc. R. Entomol. Soc. Lond. (B)12(2): 25.
- = *Iphixibia* Le Moult & Réal, 1962
Les Morpho D'Amerique, Part I: 29, 30, 164. Type-species: *Papilio anaxibia* Esper, 1801, Ausl. Schmett. (15/16): 223-224, pl. 50, fig. 1, by original designation.
- = *Cytheritis* Le Moult & Réal, 1962
Les Morpho D'Amerique, Part I: 29, 30, 165. Type-species: *Leonte portis* Hübner, [1821], Samml. exot. Schmett. 2: pl. [77], figs. 1, 2 by original designation.
- = ‡*Cypritis* Le Moult & Réal, 1962
Les Morpho D'Amerique, Part I: 29, 31, 178. Type-species: *Papilio rhetenor* Cramer, 1775, Uitl. Kapellen 1(2): 22-23, pl. 15, figs. A, B; (8): 154 (index), by original

- designation. A junior objective synonym of *Megamede* Hübner, [1819].
- = *Pessonia* Le Moult & Réal, 1962
Les Morpho D'Amerique, Part I: 29, 31, 187. Type-species: *Papilio catenarius* Perry, 1811, Arcana 2: pl. [60], by original designation.
 - = *Balachowskyina* Le Moult & Réal, 1962
Les Morpho D'Amerique, Part I: 30, 31, 178. Type-species: *Morpho aurora* Westwood, 1851, in: Gen. diurn. Lepid. (2)(40): 339 (nota), by original designation.
 - = *Grasseia* Le Moult & Réal, 1962
Les Morpho D'Amerique, Part I: 30, 31, 190. Type-species: *Papilio menelaus* Linnaeus, 1759, Syst. Nat. (ed. 10) 1: 461, no. 19, by original designation.
 - = *Schwartzia* Blandin, 1988
Gen. Morpho 1: 31. Type-species: *Papilio hecuba* Linnaeus, 1771, Mant. Plant. (2nd ed.): 534, by original designation.
‡"Zeuxidion" Le Moult & Réal, 1962
Les Morpho D'Amerique, Part I: 174.
- 766. Morpho polyphemus** Westwood, 1850
- a. Morpho polyphemus polyphemus** Westwood, [1850]
In: Gen. diurn. Lepid. (2): pl. 55, fig. 1 ♂ D; (40): 339, no. 6 (1851).
Original Combination: *Morpho Polyphemus*
Type Locality: "Mexico"
Types: Syntype (#5035) in BMNH.
- = ‡"selene" Le Moult & Réal, 1962
Morpho Amerique: 187.
Original Combination: [*Morpho (Pessonia) polyphemus*] forme *selene*
Type Locality: not stated, "Mexico" implied.
Types: "Holotype" in BMNH.
 - = ‡"psukhe" Le Moult & Réal, 1962
Morpho Amerique: 187.
Original Combination: [*Morpho (Pessonia) polyphemus*] forme *psukhe*
Type Locality: "Guerrero" [Mexico]
Types: "Holotype" in BMNH.
 - = ‡"chromomene" Le Moult & Réal, 1962
Morpho Amerique: 188.
Original Combination: [*Morpho (Pessonia) polyphemus*] forme *chromomene*
Type Locality: not stated, "Mexico" implied.
Types: "Holotype" in BMNH.

Tribe **Satyrini** Boisduval, [1833] (1820)

Subtribe **Lethina** Reuter, 1896

Acta Soc. Sci. fenn. 22(1): 344 (as "Lethidi"). Type-genus: *Lethe* Hübner, [1819], Verz. bekannt. Schmett. (4): 56.

Genus **Lethe** Hübner, [1819]

Verz. bekannt. Schmett. (4): 56. Type-species: *Papilio europa* Fabricius, 1775, Syst. Entomol.: 500-501, no. 247, by monotypy. The use of *Lethe* over *Satyrodes* and *Enodia* follows R. Chermock (1947),

Entomol. News 58(2): 29-35, de Lesse (1957), Ann. Entomol. Soc. Fr. 125: 80-82, and Scott (1986), Butterflies N. Am.: 233-236.

Subgenus **Enodia** Hübner, [1819]

Verz. bekannt. Schmett. (4): 61. Type-species: *Oreas andromacha* Hübner, [1809], Samml. exot. Schmett. 1: pl. [89], figs. 1, 2 (= *Papilio portlandia* Fabricius, 1781, Spec. Ins. 2: 82, no. 363; synonym), by designation of Scudder (1872), 4th Ann. Rept. Peabody Acad. Sci. (1871): 26.

767. Lethe portlandia (Fabricius, 1781)

a. Lethe portlandia floralae J. Heitzman & dos Passos, 1974

Trans. Am. Entomol. Soc. 100(1): 67-71, figs. 7 ♂ D, 8 ♂ V (holotype); 9 ♀ D, 10 ♀ V.

Original Combination: *Lethe portlandia floralae*

Type Locality: "Rock Springs, Orange Co., Florida"

Types: Holotype in AMNH.

b. Lethe portlandia portlandia (Fabricius, 1781)

Spec. Ins. 2: 82, no. 363.

Original

Combination: *P[apilio]. N[ymphalis]. G[emmata] Portlandia*

Type Locality: "America meridionali"; suggested to be "Georgia" by Morris (1862), Smithsonian Misc. Coll. [4]: 79, no. 2, and L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 189.

Types: Neotype in HMUG, designated by J. R. Heitzman and dos Passos (1974), Trans. Am. Entomol. Soc.

100(1): 57, figs. 1 ♀ D, 2 ♀ V.

= ~~*andromacha*~~ (Hübner, [1809])

Samml. exot. Schmett. 1: pl. [89], figs. 1 ♂ D, 2 ♂ V.

Original Combination: *Oreas Andromacha*

Type Locality: Not stated. The neotype of *andromacha* is also the neotype of *portlandia*.

Types: Neotype in HMUG, designated by J. R. Heitzman and dos Passos (1974), Trans. Am. Entomol. Soc. 100(1): 58, figs. 1 ♀ D, 2 ♀ V.

A junior objective synonym of *portlandia*.

= ~~*androcardia*~~ Hübner, 1821

Index exot. Lepid.: [1].

Original Combination: *Enodia Androcardia*

Proposed as a replacement name for *andromacha* Hübner, [1809], erroneously thought preoccupied; a junior objective synonym of *andromacha* and *portlandia*.

c. Lethe portlandia missarkae J. Heitzman & dos Passos, 1974

Trans. Am. Entomol. Soc. 100(1): 71-75, figs. 11 ♂ D, 12 ♂ V (holotype); 13 ♀ D, 14 ♀ V, fig. 19 ♂ genitalia.

Original Combination: *Lethe portlandia missarkae*

Type Locality: "five miles south of Fayetteville, Washington County, Arkansas, along the west fork of Little Arkansas White River, one mile east of Fayetteville Airport (or) 4.7 air miles south of the junction of U.S. Highways 71 and 62 (35° 59' 30" N., 94° 10' W.), elevation 1800"

Types: Holotype in AMNH.

768. Lethe anthedon (A. Clark, 1936)



- a. **Lethe anthedon anthedon** (A. Clark, 1936)
Proc. U. S. Nat. Mus. 85(2983): 255, pl. 22, figs. 1 ♂ D, 2 ♂ V (holotype).
Original Combination: *Enodia portlandia anthedon*
Type Locality: "Lava, Sullivan County, N. Y." [New York]
Types: Holotype (#51137) in USNM; figured by A. Clark and L. Clark (1951), Smithsonian Misc. Coll. 116(7): pl. 7, figs. g ♂ D, h ♂ V, and J. Heitzman and dos Passos (1974), Trans. Am. Entomol. Soc. 100(1): figs. 15 ♂ D, 16 ♂ V.
 - b. **Lethe anthedon borealis** (A. Clark, 1936)
Proc. U. S. Nat. Mus. 85: 255.
Original Combination: *Enodia portlandia borealis*
Type Locality: "Hymers, Ontario"
Types: Holotype (#51138) in USNM; figured by J. Heitzman and dos Passos (1974), Trans. Am. Entomol. Soc. 100(1): figs. 17 ♂ D, 18 ♂ V.
The status of this taxon was recently studied by Grkovich and Pavulaan (2003), Tax. Rep. Int. Lepid. Surv. 4(5): 1-15.
769. **Lethe creola** (Skinner, 1897)
Entomol. News 8(10): 236.
Original Combination: *Debis creola*
Type Locality: "Opelousas, La." [Evangeline Parish, Louisiana]
Types: Lectotype (#7039) in AMNH, designated by Irwin (1970), J. Lepid. Soc. 24(2): 144, figs. 1 ♂ D, 2 ♂ V.

Subgenus **Satyrodes** Scudder, 1875

Bull. Buffalo Soc. Nat. Sci. 2(4): 235, 242, no. 6. Type-species: *Papilio eurydice* Linnaeus, (1763), in: Johansson, Cent. Inst. Rar.: 23, no. 65, by original designation.

= ‡*Argus* Scopoli, 1777

Intro. Hist. Nat.: 432, no. 172. Type-species: *Papilio eurydice* Linnaeus, (1763), in: Johansson, Cent. Ins. Rar.: 23, no. 65, by designation of Scudder (1872), 4th Ann. Rept. Peabody Acad. Sci. (1871): 27. Preoccupied by *Argus* Bohadsch, 1761, De quibusdam anim. marinis...Liber: 56. I.C.Z.N. *Opinion* 429 placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 733.

770. **Lethe eurydice** (Linnaeus, 1763)
- a. **Lethe eurydice eurydice** (Linnaeus, 1763)
In: Johansson, Cent. Ins. Rar.: 23, no. 65; usually cited as from Amoen. acad. 6: 406, no. 65, a subsequent reprint.
Original Combination: *Papilio Eurydice D[anaus]*.
Type Locality: "Philadelphia"; neotype from "Morris Arboretum, Philadelphia Co., Pennsylvania."
Types: Type(s) considered lost; neotype in USNM, designated by Cardé *et al.* (1970), Psyche 77(1): 74, figs. 3 ♂ D, 4 ♂ V.
 - = ‡*canthus* (Linnaeus, 1767)
Syst. Nat. (ed. 12) 1(2): 768, no. 129; cited *Papilio eurydice* Linnaeus (1763), Amoen. acad. 6: 406, no. 65.

- Original Combination:** *P[apilio]. D[anaus Festivus]. Canthus*
Type Locality: "America septentrionali"
Types: The type is the same as for *eurydice*. Proposed as a replacement name for *Papilio eurydice* Linnaeus, 1763, erroneously thought preoccupied. A junior objective synonym of *Papilio eurydice*.
- = *‡cantheus* (Godart, 1819)
 Ency. méth. 9(Ins.)(2): 465, 493-494, no. 56.
Original Combination: *Satyrus Cantheus*
Type Locality: "l'Amérique septentrionale"
Types: Type(s), if any exist, may be in MNHP. Considered by some to be an incorrect subsequent spelling of *canthus* Linnaeus, 1767 (e.g., L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 240, note 620), but possibly a *nomen dubium* in Euptychiina as considered by Cardé *et al.* (1970), Psyche 77(1): 76.
- = *transmontana* (Gosse, 1840)
 Can. Nat.: 246 (fig.), 247.
Original Combination: *Hipparchia Transmontana*
Type Locality: "beyond the Rocky Mountains"; implied to be "Compton, Quebec" from the text; defined as "Compton, in Lower Canada" by Gosse (1841), Entomol. 1(9): 138; subsequently defined as "within 3 miles of Compton in the county of Sherbrooke (now the county of Compton), Lower Canada, about 45° 15' Lat. and 72° W. Long" by W. D. Field (1936), J. Entomol. & Zool. 28(2): 22. [Quebec]
Types: Type(s) apparently lost. Considered a *nomen nudum* by W. Forbes (1960), Mem. Cornell Univ. Agric. Exp. Sta. 371 (part 4): 167, footnote, and Cardé *et al.* (1970), Psyche 77(1): 77-78, but the brief description was accompanied by a figure which is a valid indication (Code Article 74.2).
- = *boisduvallii* (T. Harris, 1862)
 Ins. injur. Veget. (3rd ed.): 305-306, fig. 128 ♂ D&V.
Original Combination: *Hipparchia Boisduvallii*
Type Locality: "northwestern parts of this State"; "Massachusetts" implied from the title of the first edition of the book.
Types: Probable syntype in MCZ.
- = *‡"boweri"* F. Chermock, 1927
 Bull. Brooklyn Entomol. Soc. 22(2): 119.
Original Combination: *Satyrodes canthus* ab. *boweri*
Type Locality: "Port Hope, Ontario, Canada"
Types: "Holotype" in MGCL.
- = *‡"rawsoni"* W. D. Field, 1936
 J. Entomol. & Zool. 28(2): 22.
Original Combination: *Satyrodes eurydice* race *transmontana* female f. *rawsoni*
Type Locality: "Bloomfield, Michigan" [Bloomfield Hills, Oakland County]
Types: "Holotype" in USNM.

- b. **Lethe eurydice fumosus** (Leussler, 1916)
Entomol. News 27(3): 99-100, pl. iv, figs. 1 ♂ D, 2 ♀ V.
Original Combination: *Satyrodes canthus* n. v. *fumosus*
Type Locality: "Sarpy County, Nebraska, a few miles south of Omaha"
Types: Holotype in OSU; a "paratype" figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 63, fig. 11 ♂ D; a "cotype" figured by Howe (1975), Butterflies N. Am.: pl. 4, figs. 1 ♂ D, 2 ♂ V (in LACM).
- 771. **Lethe appalachia** R. Chermock, 1947
 - a. **Lethe appalachia appalachia** R. Chermock, 1947
Entomol. News 58(2): 33-34.
Original Combination: *Lethe (Enodia) eurydice appalachia*
Type Locality: "Conestee Falls, near Brevard, North Carolina" [Transylvania County]
Types: Holotype probably in MGCL.
 - b. **Lethe appalachia leeuwi** Gatrell & Arbogast, 1974
J. Lepid. Soc. 28(4): 359, 361, figs. 5 ♂ D (holotype), 6 ♀ D, 7 ♂ V (holotype), 8 ♀ V, 9/12 ♂ D&V, 10/13 ♂ D&V, 11/14 ♀ D&V.
Original Combination: *Lethe appalachia leeuwi*
Type Locality: "Wakelee, Cass Co., Michigan"
Types: Holotype in MGCL.

Subtribe **Coenonymphina** Tutt, 1896

Entomol. Rec. & J. Var. 7(12): 301 (as "Coenonymphidi"). Type-genus: *Coenonympha* Hübner, [1819], Verz. bekannt. Schmett. (5): 65.

Genus **Coenonympha** Hübner, [1819]

Verz. bekannt. Schmett. (5): 65. Type-species: *Papilio geticus* Esper, 1789, Die Schmett. 1(Suppl.)(1)(3/4): 51-52; (5/6): pl. 102 (Cont. 57), fig. 2 (= *Papilio oedippus* Fabricius, 1787, Mantissa Ins. 2: 31, no. 335), by designation of Butler (1868), Entomol. Mon. Mag. 4(45): 194.

- = *Chortobius* [Dunning & Pickard], [1859]
Accentuated List Brit. Lepid.: 5. Type-species: *Papilio pamphilus* Linnaeus, 1758, Syst. Nat. (ed 10) 1: 472, no. 86, by designation of Hemming (1934), Gen. Names Holarct. Butterflies 1: 44.
- = ‡*Chortobius* H. Doubleday, 1859
Zool. syn. List Brit. Butterflies (ed. 2): 2. Type-species: *Papilio pamphilus* Linnaeus, 1758, Syst. Nat. (ed 10) 1: 472, no. 86, by designation of Moore [1893], Lepid. Ind. 2(14): 51, 52. Preoccupied by *Chortobius* [Dunning & Pickard], [1859].
- = *Sicca* Verity, 1953
Farfalle diurn. Ital. 5: 83. Type-species: *Papilio dorus* Esper, 1782, Die Schmett. 1(2)(5): 130-131, pl. 78 (Cont. 63), fig. 1, by original designation.

- 772. **Coenonympha haydenii** (W. H. Edwards, 1872)
In: Hayden, Geol. Surv. Montana: 467; figured by W. H. Edwards (1888), Butterflies N. Am. 3(5): pl. Erebia 1, figs. 5 ♂ D, 6 ♂ V.
Original Combination: *Erebia Haydenii*
Type Locality: "Yellowstone"; further defined as "Yellowstone Lake" by W. H. Edwards (1874), Trans. Am.



Entomol. Soc. 5(1): 19. [Yellowstone National Park, Wyoming]

Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 351, fig. 9 ♂ D&V.

***773. Coenonympha tullia** (Müller, 1764)

Fauna Ins. Fridrichsdal.: 36, no. 332.

Original Combination: *Papilio*. *Nymphalis Tullia*

Type Locality: "In agris."; "Fridrichsdal" implied from the title of the work. [Zeeland, Denmark]

Types: Location of types not known, possibly lost.

The division of this complex in North America into multiple species-level taxa (e.g., T. Emmel (1975), *in*: Howe, 1975, Butterflies N. Am.: 101-105, L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 193-194, and C. Guppy and J. Shepard (2001), Butterflies B. C.: 320-323) is untenable at this time (see Porter & Geiger (1988), Can. J. Zool. 66: 2752-2765, Porter & Mattoon, (1989), J. Lepid. Soc. 43(3): 229-238, and Austin & R. Gray (1998), Syst. W. N. Am. Butterflies (47): 587-612.). However, the arrangement of taxa under *C. tullia* should be considered tentative.

= *tiphon* (Rottemburg, 1775)

Naturforscher 6: 15-16, no. 1.

Original Combination: *Papilio*. *Tiphon*

Type Locality: Not stated.

Types: Location of type(s) not known.

= *davus* Fabricius, [1777]

Gen. Ins.: 259.

Original Combination: *Papilio*

D[anaus]. *F[estivus]*. *Davus*

Type Locality: "Hamburgi...Kilonii"

Types: Location of type(s) not known.

= *philoxenus* Esper, 1780

Die Schmett. 1(2)(1): 25-26, pl. 54 (Cont. 4), fig. 3 ♀ D&V).

Original

Combination: *P[apilio]*. *P[lebejus]*. *Rur[alis]*. *Philoxenus*

Type Locality: "Schweden...Deutschland...von Bayreuth...von Frankfurth...Oesterreich"

Types: Location of type(s) not known.

= *timanica* Sedykh, 1977

Geogr. Aspect. Conserv. Flora Faun. NE Europ. USSR: 102, no. 70.

Original Combination: *C[oenonympha tullia]*. *timanica*

Type Locality: "environs of Ukhta" [Komi Autonomous Republic, Russia]

Types: Syntypes in ZIN.

a. Coenonympha tullia nipisiquit McDunnough, 1939

Can. Entomol. 71(12): 266.

Original Combination: *Coenonympha inornata nipisiquit* var. nov.

Type Locality: "Bathurst, N. B." [New Brunswick]

Types: Holotype (#4967) in CNC.

Layberry *et al.* (1998), Butterflies Can.: 217, suggested that this is a species-level taxon, a conclusion subsequently supported by R. Webster (1999), J. Lepid. Soc. 52(4): 345-355.

b. Coenonympha tullia mcisaaci dos Passos, 1935

Can. Entomol. 67(4): 83-84.

Original Combination: *Coenonympha inornata mcisaaci*

Type Locality: "Doyles Station, Newfoundland"
[Newfoundland and Labrador]

Types: Holotype in AMNH; possible syntype figured by D. Davenport (1941), Bull. Mus. Comp. Zool. 87(4): pl. 8, fig. 35, left row ♂ D, ♀ D, ♂ V.

Spelled "macisaaci" by dos Passos (1964), Mem. Lepid. Soc. (1): 101; this is an unjustified emendation.

- c. ***Coenonympha tullia inornata*** W. H. Edwards, 1861
Proc. Acad. Nat. Sci. Philad. 13(6): 160, 163, no. 6.

Original Combination: *Coenonympha inornata*

Type Locality: "Lake Winnipeg"; suggested to be "somewhere along the lower reaches of the Saskatchewan River" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 340.

Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 340, fig. 4 ♂ D&V.

- = *quebecensis* W. Barnes & Benjamin, 1926
Bull. South. Calif. Acad. Sci. 25(3): 89, no. 104a.

Original Combination: *Coenonympha inornata* race *quebecensis*

Type Locality: "Chelsea, Ottawa Co., Que."
[Quebec]

Types: Holotype in USNM.

- = *heinemani* F. Brown, [1959]
J. N. Y. Entomol. Soc. 66(1/2): 67-68, pl. 2, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5 ♂ V, 6 ♂ V, 7 ♂ V, 8 ♂ D, 9 ♀ D, 10 ♀ D.

Original Combination: *Coenonympha nipisiquit heinemani*

Type Locality: "Grindstone Island, Clayton, Jefferson Co., New York"

Types: Holotype in AMNH.

Layberry, *et al.* (1998), Butterflies Can.: 215-216, determined this synonymy.

- d. ***Coenonympha tullia benjamini*** McDunnough, 1928
Can. Entomol. 60(11): 272-273.

Original Combination: [*Coenonympha inornata*] *benjamini*

Type Locality: "Waterton Lakes, Alta." [Alberta]

Types: Holotype (#2888) in CNC; paratypes figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 60, fig. 19 ♂ V, 20 ♀ D.

- = *bottineauensis* F. Chermock, Simmons & P. Chermock, 1963

In: Knudson and Post, North Dakota Insects 2: 23.

Original Combination: *Coenonympha tullia bottineauensis*

Type Locality: "just east of Bottineau...North Dakota" [Bottineau County]

Types: Holotype in MGCL.

- e. ***Coenonympha tullia yukonensis*** W. Holland, 1900
Entomol. News 11(3): 386-387, no. 16; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 60, fig. 21 ♂ D, 22 ♀ V.

Original

Combination: *C[oenonympha] kodiak* var. *yukonensis*

Type Locality: "Dawson, Yukon Territory...Eagle City, Alaska...American Creek"

Types: Syntypes in CMNH.

D. Davenport (1941), Bull. Mus. Comp. Zool. 87(4): 255-256, suggested that this may be a synonym of *C. t. mixturata*.

- f. ***Coenonympha tullia mixturata*** Alpheraky, 1897
In: Romanoff, Mém. Lépid. 9: 326-327, pl. 14, fig. 4 ♂ D&V.
Original Combination: *Coenonympha Tiphon* Var. *Mixturata*
Type Locality: "Kamtschatka" [Kamchatka Oblast, Koryakia Autonomous Okrug, Russia]
Types: Syntypes probably in ZIN.
- g. ***Coenonympha tullia kodiak*** W. H. Edwards, 1869
Trans. Am. Entomol. Soc. 2(4): 375.
Original Combination: *Caenonympha* [*sic!*] *Kodiak*
Type Locality: "Kodiak" [Alaska]
Types: Holotype lost; neotype in CMNH, designated by F. Brown (1965), Entomol. News 76(3): 83; figured by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 339, fig. 3 ♂ D&V.
- h. ***Coenonympha tullia insulana*** McDunnough, 1928
Can. Entomol. 60(11): 273.
Original Combination: [*Coenonympha inornata*] *insulana*
Type Locality: "Victoria, B. C." [Vancouver Island, British Columbia]
Types: Holotype (#2889) in CNC; paratypes figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 60, figs. 23 ♀ D, 24 ♂ V.
- i. ***Coenonympha tullia yontocket*** Porter & Mattoon, 1989
J. Lepid. Soc. 43(3): 231-232, figs. 1a ♂ D, 1b ♂ V (holotype); 2a ♀ D, 2b ♀ V, 3a ♂ V, 3b ♂ V.
Original Combination: *Coenonympha tullia yontocket*
Type Locality: "California, Del Norte Co., 4 km W Fort Dick"
Types: Holotype in EMEC.
- j. ***Coenonympha tullia californica*** Westwood, [1851]
In: Gen. diurn. Lepid. (2): pl. 67, fig. [1851]; (43): 398, no. 15 (1851).
Original Combination: *Coenonympha California*
Type Locality: "California"; suggested to be "vic. San Francisco" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 194. [San Francisco County]
Types: Syntype (#3532) in BMNH.
= *galactus* (Boisduval, 1852)
Ann. Soc. Entomol. Fr. (2)10(2): 309-310, no. 61.
Original Combination: *Satyrus galactus*
Type Locality: "les montagnes du nord", defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 19.
Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 19, figs. 117 ♂ D, 118 ♂ V.

- = *ceres* Butler, 1866
Entomol. Mon. Mag. 3(28): 78, no. 5.
Original Combination: *Coenonympha ceres*
Type Locality: "California"
Types: Holotype in BMNH.
- = *brenda* W. H. Edwards, 1869
Trans. Am. Entomol. Soc. 2(4): 375-376.
Original Combination: *Caenonympha* [sic!] *Brenda*
Type Locality: "Los Angeles, Cala."; suggested to be "Utah or Nevada" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 345, but W. H. Edwards' locality is most likely correct (see below).
Types: Types apparently lost. The "lectotype" in FMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 347, fig. 7 ♂ D&V, is not a syntype (Code Article 74.2).
Austin and R. Gray (1998), Syst. W. N. Am. Butterflies: 588-589, discussed the "lectotype", compared it with the original description of *brenda*, and determined that it does not represent what Edwards described. They concluded that *brenda* most likely represents a population of *californica* from Los Angeles, but deferred designation of a neotype.
- = *pulla* Hy. Edwards, 1881
Papilio 1(4): 51.
Original Combination: *Coenonympha californica* n. var. *pulla*
Type Locality: "San Mateo Co., Cal." [California]
Types: Holotype in AMNH.
- k. ***Coenonympha tullia eryngii*** Hy. Edwards, 1877
Proc. Calif. Acad. Sci. [1]7(13): 172.
Original Combination: *Coenonympha Eryngii* n. var
Type Locality: "Soda Springs, Siskiyou Co., Cal.", but holotype is from "Mt. Shasta." [California]
Types: Holotype in AMNH.
 - = ‡"siskiyouensis" J. A. Comstock, 1925
Bull. South. Calif. Acad. Sci. 24(3): 62-63 figured by J. A. Comstock (1927), Butterflies Calif.: pl. 18, figs. 11 ♂ D ("holotype"), 12 ♂ V.
Original Combination: *Coenonympha californica* form *siskiyouensis*
Type Locality: "Mt. Shasta, Calif." [Siskiyou County, California]
Types: "Holotype" in LACM;
The text clearly indicates that this taxon was described as a seasonal form.
- l. ***Coenonympha tullia eunomia*** Dornfeld, 1967
J. Lepid. Soc. 21(1): 3-5.
Original Combination: *Coenympha tullia eunomia*
Dornfeld adopted *Coenonympha ampelos* form *eunomia* W. D. Field, 1937, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).
 - = ‡"eunomia" W. D. Field, 1937
Can. Entomol. 69(11): 249-250.
Original Combination: [*Coenonympha ampelos*] form *eunomia*

Type Locality: "Wilhoit, Oregon" [Clackamas County]

Types: "Holotype" (#34795) in USNM.

The text clearly indicates that this taxon was described as an infrasubspecific form.

- m. **Coenonympha tullia columbiana** McDunnough, 1928
Can. Entomol. 60(11): 273-274.
Original Combination: [*Coenonympha inornata*] *columbiana*
Type Locality: "Aspen Grove, B. C." [British Columbia]
Types: Holotype (#2890) in CNC; paratypes figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 60, figs. 17 ♀ D, 18 ♂ D.
- n. **Coenonympha tullia ampelos** W. H. Edwards, 1871
Trans. Am. Entomol. Soc. 3(3/4): 205, 213, no. 15.
Original Combination: *Coenonympha Ampelos*
Type Locality: "Oregon"; defined as "southeastern Oregon near the California border" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 342; suggested to be "probably near Goose Lake, Lake County, Oregon" by Austin and R. Gray (1998), Syst. W. N. Am. Butterflies: 590.
Types: Lectotype in CNC, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 342, fig. 5 ♀ D&V.
= *sweadneri* R. Chermock & F. Chermock, 1941
Proc. Penn. Acad. Sci. 15: 52.
Original Combination: *Coenonympha Sweadneri*
Type Locality: "Pine Creek, Shoshone Co., Idaho"
Types: Holotype in CMNH.
- o. **Coenonympha tullia mono** Burdick, 1942
Can. Entomol. 74(1): 2-3, fig. ♂ V.
Original Combination: *Coenonympha ampelos mono* race nov.
Type Locality: "Bridgeport, Mono Co., California"
Types: Holotype (#5223) in CNC.
- p. **Coenonympha tullia elko** W. H. Edwards, 1881
Can. Entomol. 13(3): 57-58.
Original Combination: *Coenonympha Elko*
Type Locality: "Elko, Nev." [Elko County, Nevada]
Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 345, fig. 6 ♂ D&V; "syntypes" figured by W. Holland (1898), Butterfly Book: pl. 25, figs. 25 ♀ V, 26 ♂ D.
- q. **Coenonympha tullia pseudobrenda** Austin & R. Gray, 1998
Syst. W. N. Am. Butterflies (47): 588, figs. 17 ♂ D (holotype), 19 ♂ D, 27 ♂ V, 18 ♀ D, 25 ♂ V (holotype), 26 ♀ V, 20 ♀ D, 28 ♀ V.
Original Combination: *Coenonympha tullia pseudobrenda*
Type Locality: "Nevada: Lincoln County; Wilson Creek Range, road towards Wilson Peak from Atlanta Road, 9.6 road miles south of Atlanta Road, 2470 m, T5N R68E S22 on USGS Trail Canyon 15' quadrangle"
Types: Holotype in MGCL.
- r. **Coenonympha tullia ochracea** W. H. Edwards, 1861
Proc. Acad. Nat. Sci. Philad. 13(6): 160, 163 no. 7.

Original Combination: *Coenonympha ochracea*

Type Locality: "Lake Winnipeg; California; Kansas"; neotype from "Turkey Creek, Jefferson Co., Colo, 8000 ft." [Colorado]

Types: Neotype in CMNH, designated by F. Brown (1963), Entomol. News 74(8): 218; figured by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): fig. 8 ♂ D&V.

= *phantasma* Burdick, 1956

Lepid. News 10(3/4): 81-83, fig. center ♂ V (holotype).

Original Combination: *Coenonympha inornata phantasma*

Type Locality: "Eldora, Boulder Co., Colo." [Colorado]

Types: Holotype in LACM.

= ‡"albescens" W. D. Field, 1936
J. Entomol. & Zool. 28(2): 22.

Original Combination: *Coenonympha ochracea* tr. f. *albescens*

Type Locality: "Albany Co., Wyoming"

Types: "Holotype" in USNM.

s. *Coenonympha tullia subfusca* W. Barnes & Benjamin, 1926

Bull. South. Calif. Acad. Sci. 25(3): 90, no. 106a.

Original Combination: *Coenonympha ochracea* race *subfusca*

Type Locality: "White Mts., Arizona"

Types: Holotype in USNM.

t. *Coenonympha tullia furcae* W. Barnes & Benjamin, 1926

Bull. South. Calif. Acad. Sci. 25(3): 90, no. 106.1.

Original Combination: *Coenonympha furcae*

Type Locality: "Grand Canyon, Arizona" [Coconino County]

Types: Holotype in USNM.

u. *Coenonympha tullia mackenziei* D. Davenport, 1936

Can. Entomol. 68(4): 79.

Original Combination: *Coenonympha tiphon mackenziei*

Type Locality: "Nyarling River, Mackenzie Dist[ri]ct"; defined as "the Nyarling River, 0.8 km from its confluence with the Little Buffalo River, Northwest Territories, (60° 40' N, 113° 25' W)", by Kondla (1995), Blue Jay 53(4): 228.

Types: Holotype (#4066) in CNC; possible paratype figured by D. Davenport (1941), Bull. Mus. Comp. Zool. 87(4): pl. 10, fig. 38, lower right ♂ V.

Subtribe *Euptychiina* Reuter, 1896

Acta Soc. Sci. fenn. 22(1): 367 (as "Euptychiidi"). Type-genus: *Euptychia* Hübner, [1818], Zutr. Samml. exot. Schmett. 1: 20.

Genus *Cyllopsis* R. Felder, 1869

Verh. zool.-bot. Ges. Wien 19: 474. Type-species: *Cyllopsis hedemanni* R. Felder, 1869, Verh. zool.-bot. Ges. Wien 19: 474, no. 29, by monotypy.

***774. *Cyllopsis pyracmon* (Butler, [1867])**

Proc. Zool. Soc. Lond. 1866(3): 499-500, no. 118; figured by Butler (1867), Proc. Zool. Soc. Lond. 1867(1): pl. 11, fig. 10 ♂ V.

Original Combination: *Euptychia pyracmon*

Type Locality: "Oajaca (Mexico)" [Oaxaca]

Types: Holotype in BMNH.

- a. ***Cyllopsis pyracmon henshawi*** (W. H. Edwards, 1876)
Trans. Am. Entomol. Soc. 5(3/4): 205; figured by W. H. Edwards (1887), Butterflies N. Am. 3(2): pl. Neonympha 1, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V; a mixed series (see *C. pertepida dorothea* below).

Original Combination: *Euptychia Henshawi*

Type Locality: "Arizona and New Mexico"; lectotype from "Ariz^a"; suggested to be "vicinity of Camp Lowell" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 331. [Pima County, Arizona]

Types: Lectotype in CMNH, designated by Nabokov (1943), Psyche 49(3/4): 79; figured by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): fig. 1 ♀ D&V.

= *nabokovi* L. Miller, 1974

Bull. Allyn Mus. (20): 48-50, figs. 106 ♂ D, 107 ♂ V (holotype); 108 ♀ D, 109 ♀ V, 110 ♂ genitalia.

Original Combination: *Cyllopsis pyracmon nabokovi*

Type Locality: "Arizona: Cochise Co.: Ramsey Canyon, Huachuca Mtns."

Types: Holotype in MGCL.

- *775. ***Cyllopsis pertepida*** (Dyar, 1912)

Proc. U. S. Nat. Mus. 42(1885): 39.

Original Combination: *Euptychia pertepida*

Type Locality: "Mexico City, Mexico" [Distrito Federal]

Types: Lectotype (#13852) in USNM, designated by L. Miller (1974), Bull. Allyn Mus. (20): 81.

- a. ***Cyllopsis pertepida dorothea*** (Nabokov, 1943)
Psyche 49(3/4): 61, 62-66, fig. 2, venation; cited W. H. Edwards (1888), Butterflies N. Am. 3(2): pl. Neonympha 1, mixed series (see *C. p. henshawi* above), and W. Holland (1898), Butterfly Book, pl. 25, fig. 8 ♂ D; both as *henshawi*.

Original Combination: *Neonympha dorothea/Neonympha dorothea dorothea*

Type Locality: "Grand Cañon, Ariz., South Rim" [Coconino County, Arizona]

Types: Holotype in MCZ.

= *edwardsi* (Nabokov, 1943)
Psyche 49(3/4): 66-67.

Original Combination: *Neonympha dorothea edwardsi*

Type Locality: "Gila Co., Arizona"

Types: Holotype in MCZ.

- b. ***Cyllopsis pertepida maniola*** (Nabokov, 1943)
Psyche 49(3/4): 62, 68-69, fig. 1, venation; cited W. G. Wright (1905), Butterflies W. Coast: pl. 25, figs. 266 ♂ D, 266b ♀ D, 266c ♂ V (as *henshawi*).

Original Combination: *Neonympha maniola*

Type Locality: "Cochise Co., Arizona"

Types: Holotype in MCZ.

- c. ***Cyllopsis pertepida avicula*** (Nabokov, 1943)

Psyche 49(3/4): 67-68.

Original Combination: *Neonympha dorothea avicula*

Type Locality: "Fort Davis, Texas" [Jeff Davis County]

Types: Holotype in MCZ.

= *texana* (Wind, 1946)

Pan-Pac. Entomol. 22(1): 27.

Original Combination: *Neonympha henshawi texana*

Type Locality: "Marfa-Alpine, Texas" [Presidio-Brewster counties]

Types: Holotype in CAS.

776. **Cyllopsis gemma** (Hübner, 1818)

a. **Cyllopsis gemma gemma** (Hübner, 1818) (1793)

Zutr. Samml. exot. Schmett. 1: pl. [2]. figs. 7 ♂ D, 8 ♂ V [1809]; 8, no. 4 (1818, name given).

Original Combination: *Neonympha Gemma*

Type Locality: "Georgien"

Types: Type(s) probably lost

This taxon was described earlier by Hübner (1808), Erste Zutr. Samml. exot. Schmett.: 3, [8], nos. 7, 8 (as *Oreas gemma*), but that work was suppressed by I.C.Z.N. *Opinion* 789.

= *cornelius* (Fabricius, 1793)

Entomol. Syst. 3(1): 220-221, no. 689; cited Jones' Icones 6: pl. 49, fig. 2.

Original Combination: *P[apilio]. S[atyr]. Cornelius*

Type Locality: Not stated.

Types: Type(s) probably lost.

This name is a *nomen oblitum*.

b. **Cyllopsis gemma freemani** (D. Stallings & Turner, 1947)

Can. Entomol. 78(7/8): 136.

Original Combination: *Neonympha gemma freemani*

Type Locality: "Pharr, Texas" [Hidalgo County]

Types: Holotype and allotype in PMNH.

= ‡"inductura" (D. Stallings & Turner, 1947)

Can. Entomol. 78(7/8): 136.

Original Combination: *Neonympha gemma freemani* form *hiemalis inductura*

Type Locality: "Pharr, Texas" [Hidalgo County]

Types: "Holotype" and "allotype" in PMNH.

Genus **Paramacera** Butler, 1868

Entomol. Mon. Mag. 4(45): 194. Type-species: *Neonympha xicaque* Reakirt, [1867], Proc. Acad. Nat. Sci. Philad. 18(4/5): 336-337, no. 40, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 240, no. 805.

= ‡*Paramecera* Butler, 1868

Cat. diurn. Lepid. Sat. Brit. Mus.: 98. Type-species: *Neonympha xicaque* Reakirt, [1867], Proc. Acad. Nat. Sci. Philad. 18(4/5): 336-337, no. 40, by monotypy. A junior objective synonym of *Paramacera* Butler, 1868.

777. **Paramacera xicaque** (Reakirt, [1867])

Proc. Acad. Nat. Sci. Philad. 18(4/5): 336-337, no. 40.

Original Combination: *Neonympha xicaque*

Type Locality: "Mexico (near Vera Cruz)"; suggested to be "the flanks of Mt. Orizaba" by L. Miller (1972), Bull. Allyn Mus. (8): 11. [Veracruz]

Types: Type(s) apparently lost.

= *epinephele* (C. Felder & R. Felder, 1867)
Reise Novara Zool. (3): 476, no. 817.

Original Combination: *Neonympha Epinephile*

Type Locality: "Mexico"

Types: Holotype in BMNH.

‡"conhiera" Butler, 1868

Entomol. Mon. Mag. 4(45): 194.

Original Combination: *P[aramacera]. Conhiera*

This name was listed without a description or indication; a *nomen nudum*.

a. **Paramacera xicaque allyni** L. Miller, 1972

Bull. Allyn Mus. (8): 13-15, figs. 24 ♂ D, 25 ♂ V (holotype); 26 ♀ D, 27 ♀ V, 28 ♂ genitalia.

Original Combination: *Paramacera allyni*

Type Locality: "U. S. A.: Arizona: Cochise Co.: Barfoot Park, 8000', Chiracahua Mtns."

Types: Holotype in MGCL.

Genus *Hermeuptychia* Forster, 1964

Veröff. zool. Staatssamml. München 8: 87-89, figs. 60-67. Type-species: *Papilio hermes* Fabricius, 1775, Syst. Entomol.: 487, no. 195, by original designation. As noted by Opler and A. Warren (2002), Sci. Names List Butterflies N. A.: 41, the species-level taxonomy of this genus is in need of a comprehensive revision.

778. **Hermeuptychia sosybius** (Fabricius, 1793)

Entomol. Syst. 3(1): 219, no. 684; cited Jones' Icones 6: pl. 52, fig. 2.

Original Combination: *P[apilio]. S[atyr]. Sosybius*

Type Locality: Not stated.

Types: Type(s) probably lost.

= *kappeli* Anken, 1993

Entomol. Z. 103(22): 418-419, figs. 2a ♂ D, 2b ♂ V (holotype).

Original Combination: *Hermeuptychia hermes kappeli*

Type Locality: "Lake Okeechobee (Nord), Florida, U. S. A."

Types: Holotype in Anken collection.

779. **Hermeuptychia hermes** (Fabricius, 1775)

Syst. Entomol.: 487, no. 195.

Original

Combination: *P[apilio]. D[anaus]. F[estivus]. Hermes*

Type Locality: "Brasilia" Fabricius cited "Mus. Banks" and L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 191, state that only Rio de Janeiro was visited by Banks.

Types: Syntype (#5036) in BMNH.

Sibling species may be involved within the current concept of *H. hermes*.

= *camerta* (Cramer, 1780)

Uitl. Kapellen 4(25): 10-11, pl. 293, fig. F (34): 248 (index).

Original

Combination: *Pap[ilio]. Nymphalis]. Gemm[ata]. Camerta*

- Type Locality:** "Surinamsche" "Suriname"
Types: Type(s) probably lost.
- = *canthe* (Hübner, [1811])
 Samml. exot. Schmett. 1: pl. [87], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Oreas Canthe*
Type Locality: Not stated; suggested to be "?Surinam" by Hemming (1937), Hübner 2: 122 (manuscript 35).
Types: Location of type(s) not known, probably lost. Butler [1867], Proc. Zool. Soc. Lond. 1866(3): 475, no. 51, determined this synonymy.
- = *hermessa* (Hübner, [1819])
 Verz. bekannt. Schmett. (4): 54, no. 508; cited *Papilio hermes* Fabricius, 1775, Syst. Entomol.: 487, no. 195, and *Papilio antonoë* Cramer, 1775, Uitl. Kapellen 1(5): pl. 60, figs. E, F; (8): 151 (index).
Original Combination: *Euptychia Hermessa*
Type Locality: "Brasilia"
Types: Type(s) probably lost.
- = *nana* Möschler, 1877
 Verh. zool.-bot. Ges. Wien 26: 323-324.
Original Combination: [*Euptychia*] *Nana*
Type Locality: "dem innern Surinams"
Types: Holotype may be in ZMHB.
- = *isabella* Anken, 1994
 Entomol. Z. 104(14): 287-288, figs. 3a ♂ D, 3b ♂ V, 4 ♂ genitalia.
Original Combination: *Hermeuptychia hermes isabella*
Type Locality: "Barranco do Rio Amambai, Navirai, Mato Grosso do Sul, Brasilien"
Types: Holotype in Anken collection.
 ‡"hermesina" Forster, 1964
 Veröff. zool. Staatssamml. München 8: 90.
Original Combination: [*Hermeuptychia*] *hermes hermesina*
 Name proposed without a description or indication; a *nomen nudum*.

Genus *Neonympha* Hübner, 1818

Zutr. Samml. exot. Schmett. 1: 8, no. 4. Type-species: *Papilio areolatus* J. E. Smith, 1797, in: Smith & Abbot, Ins. Georgia 1: 25, pl. 13, by designation of Hemming (1937), Proc. R. Entomol. Soc. Lond. (B)6(8): 150.

780. ***Neonympha areolatus*** (J. E. Smith, 1797)
 In: Smith & Abbot, Ins. Georgia 1: 25-26, pl. 13, figs. ♂ D, ♀ D, ♀ V, larva, pupa.
Original Combination: *Papilio Areolatus*
Type Locality: "Georgia" implied from notes to the original drawing by John Abbot; neotype from "Pine Barrens Road, Chatham County, Georgia."
Types: Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost. Neotype in MGCL, designated by Gatrelle (1999), Tax. Rept. Int. Lepid. Surv. 1(8): 5, fig. 1 ♂ V. Genus-species gender conformation is *areolata*.
 = ‡*phocion* (Fabricius, 1793)
 Entomol. Syst. 3(1): 218-219, no. 683.
Original Combination: *P[apilio]. S[atyri]. Phocion*

Type Locality: Not stated; Butler (1868), Cat. Sat. Brit. Mus.: 37, listed "United States."

Types: Type(s) probably lost.

Preoccupied by *Papilio phocion* Fabricius, 1781, Spec. Ins. 2: 138.

781. *Neonympha helicta* (Hübner, [1808])

The separation of *N. helicta* from *N. areolata* was discussed by Gatrell (1999), Tax. Rept. Int. Lepid. Surv. 1(8): 1-8, but requires additional corroboration.

a. *Neonympha helicta septentrionalis* W. T. Davis, 1924
J. N. Y. Entomol. Soc. 32(2): 107, pl. 10, fig. 4 ♂ D&V (holotype).

Original Combination: [*Neonympha areolata*] [var. or race] *septentrionalis*

Type Locality: "Lakehurst, N. J." [Ocean County, New Jersey]

Types: Holotype probably in SIIS.

b. *Neonympha helicta helicta* (Hübner, [1808])

Samml. exot. Schmett. 1: pl. [95], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Oreas Helicta*

Type Locality: Not stated; suggested to be "Georgia, United States" by Butler [1867], Proc. Zool. Soc. Lond. 1866(3): 499, no. 117; neotype from "vicinity of Aiken State Park, Aiken County, South Carolina."

Types: Neotype in MGCL, designated by Gatrell (1999), Tax. Rept. Int. Lepid. Surv. 1(8): 2, fig. 4 ♂ V.

c. *Neonympha helicta dadeensis* Gatrell, 1999

Tax. Rept. Int. Lepid. Surv. 1(8): 7, figs. 6 ♂ V (holotype), 12 ♀ V.

Original Combination: *Neonympha helicta dadeensis*

Type Locality: "Carde Sound Road, Dade County, Florida" [Miami-Dade County]

Types: Holotype in MGCL.

782. *Neonympha mitchellii* French, 1889

a. *Neonympha mitchellii mitchellii* French, 1889

Can. Entomol. 21(2): 25-27.

Original Combination: *Neonympha Mitchellii*

Type Locality: "Cass County, Michigan...upland dry meadows, about ten miles from the Indiana line"

Types: Type(s) apparently lost; figured by [Skinner] (1892), Entomol. News 3(3): 49, pl. 2, figs. ♂ D, 12 ♀ V.

b. *Neonympha mitchellii francisci* Parshall & Kral, 1989

J. Lepid. Soc. 43(2): 115-117, figs. 2a ♀ V, 2b ♂ V (holotype), 2f ♂ VHW.

Original Combination: *Neonympha mitchellii francisci*

Type Locality: "Fort Bragg, North Carolina" [Cumberland County]

Types: Holotype in USNM.

Genus *Megisto* Hübner, [1819]

Verz. bekannt. Schmett. (4): 54. Type-species: *Papilio eurytus* Fabricius, 1775, Syst. Entomol.: 487, no. 194 (= *Papilio cymela*, Cramer, 1777, Utitl. Kapellen 2(11): 55, pl. 132, figs. C, D; (16): 148 (index); synonym), by designation of Butler (1868), Cat. diurn. Lepid. Sat. Brit. Mus.: 14.

783. *Megisto cymela* (Cramer, 1777)

a. *Megisto cymela cymela* (Cramer, 1777)

Uitl. Kapellen 2(11): 55, pl. 132, figs. C ♂ D, D ♂ V; (16): 148 (index).

Original

Combination: *Pap[ilio]. Nymph[alis]. Gemm[ata] Cymela*

Type Locality: "Kaap de Goede Hoop" "Cap de bonne Esperance" in error; neotype from "Jacksonboro, Colleton County, South Carolina."

Types: Type(s) probably lost; neotype in MGCL, designated by Gatrell (2005), Tax. Rep. Int. Lepid. Surv. 6(5): 3, figs. 3 ♂ D, 4 ♂ V.

= *†eurytus* (Fabricius, 1775)

Syst. Entomol.: 487, no. 194.

Original

Combination: *P[apilio]. D[anaus]. F[estivus]. Eurytus*

Type Locality: "Iamaica" This locality was probably reversed with that of the taxon that preceded it (*Papilio zangis*, no. 193, from "Carolina"), since that taxon is only known from Jamaica. Defined as "Goose Creek, Berkeley County, South Carolina" by Gatrell (2005), Tax. Rep. Int. Lepid. Surv. 6(5): 2.

Types: Lectotype (#127231) in HMUG, designated by Gatrell (2005), Tax. Rep. Int. Lepid. Surv. 6(5): 2, figs. 1 ♂ D, 2 ♂ V.

Preoccupied by *Papilio eurytus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 487, no. 180.

The names "*eurytris*" Fabricius (1793), Entomol. Syst. 3(1): 157, no. 485, "*eurithris*" Fabricius (1796), Index alph.: 122, and "*eurythris*" Fabricius (1797), Epitome entomol: 135, are incorrect subsequent spellings of *eurytus*.

b. Megisto cymela viola (Maynard, 1891)

Butterflies N. England (ed. 2): 71, pl. 10, fig. 11 ♂ V; figured by Maynard (1891), Manual N. Am. Butterflies: fig. 36b.

Original Combination: *Neonympha eurytris viola*

Type Locality: "Enterprise, Florida" [Volusia County]

Types: Holotype in MCZ.

This taxon has been treated as distinct species by Oliver (1982), J. Lepid. Soc. 36(2): 153, Opler and Krizek (1984), Butterflies East Great Plains: 185, and Opler (1992), Field Guide E. Butterflies: 212. Catling and Calhoun (1997), Holarct. Lepid. 4(1): 27, determined this taxon to be a subspecies of *M. cymela* occurring in peninsular Florida.

784. Megisto rubricata (W. H. Edwards, 1871)

a. Megisto rubricata rubricata (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 205, 212-213, no. 14.

Original Combination: *Euptychia Rubricata*

Type Locality: "near Waco, Texas"; neotype from "Waco Texas." [McLennan County]

Types: Neotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 335, fig. 2 ♂ D&V.

b. Megisto rubricata smithorum Wind, 1946

Pan-Pac. Entomol. 22(1): 26.

Original Combination: *Megisto rubricata smithorum*

Type Locality: "Marfa-Alpine, Texas" [Presidio-Brewster counties]

Types: Holotype in CAS.

- c. **Megisto rubricata cheneyorum** (R. Chermock, 1949)
Can. Entomol. 80(6): 172-173.

Original Combination: *Euptychia rubricata cheneyorum*

Type Locality: "Madera Canyon, Santa Rita Mts., Pima Co., Arizona, elevation 5800 feet"

Types: Holotype possibly in CUIIC.

Subtribe *incertae sedis* ,

The phylogenetic position and subtribal status of the genus *Cercyonis* is currently uncertain.

Genus *Cercyonis* Scudder, 1875

Bull. Buffalo Soc. Nat. Sci. 2(4): 235, 241, no. 5. Type-species: *Papilio alope* Fabricius, 1793, Entomol. Syst. 3(1): 229, no. 715 (= *Papilio pegala* Fabricius, 1775, Syst. Entomol.: 494, no. 223; subspecies), by original designation.

785. *Cercyonis pegala* (Fabricius, 1775)

- a. ***Cercyonis pegala pegala*** (Fabricius, 1775)

Syst. Entomol.: 494, no. 223.

Original

Combination: *P[apilio]. M[ymphalis]. G[emmata]. Pegala*

Type Locality: "America"; defined as "vicinity of Charleston, South Carolina" by F. Brown [1966], J. Res. Lepid. 4(2): 134-135.

Types: Lectotype in HMUG, designated by F. Brown [1966], J. Res. Lepid. 4(2): 134-135, fig. 1 left ♂ D&V.

= *maritima* (W. H. Edwards, 1880)

Can. Entomol. 12(2): 23; figured by W. H. Edwards (1882), Butterflies N. Am. 2(10): pl. Satyrus 1, figs. 6 ♂ D.

Original Combination: [*Satyrus Alope*] variety *Maritima* (but under *Satyrus Nephele*)

Type Locality: "Martha's Vineyard"; further defined as "Oak Bluffs" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 374. [Dukes County, Massachusetts]

Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 376, fig. 18 ♂ D&V.

= *abbotti* F. Brown, 1969

Entomol. News 80(7): 194-195, fig. 1 ♂ D&V (holotype), 2 ♀ D&V.

Original Combination: *Cercyonis pegala abbotti*

Type Locality: "Chipley/Florida" [Washington County]

Types: Holotype (#8992) in CMNH.

Sourakov (1995), Holarct. Lepid. 2(1): 8, determined this synonymy.

- b. ***Cercyonis pegala alope*** (Fabricius, 1793)

Entomol. Syst. 3(1): 229, no. 715; cited Jones' Icones 4: pl. 12, fig. 1.

Original Combination: *P[apilio]. S[atyr]. Alope*

Type Locality: "India"; corrected to "Burke-Screven-Bulloch counties region of Georgia" by F. Brown [1966], J. Res. Lepid. 4(2): 136-137.

Types: Type(s) apparently lost.

= *carolina* (F. Chermock & R. Chermock, 1942)
Proc. Penn. Acad. Sci 16: 59.

Original Combination: *Cercyonis alope carolina* new race

Type Locality: "Conestee Falls, N. C." [Transylvania County, North Carolina]

Types: Syntypes in MGCL.

= ‡"*ochracea*" (F. Chermock & R. Chermock, 1942)

Proc. Penn. Acad. Sci 16: 59.

Original Combination: *Cercyonis alope ochracea* new form

Type Locality: "Washington Park, Providence, Rhode Island" [Providence County]

Types: "Syntypes" in MGCL.

The text clearly indicates that this taxon was described as an individual variant.

- c. ***Cercyonis pegala texana*** (W. H. Edwards, 1880)
Can. Entomol. 12(2): 24; figured by W. H. Edwards (1882), Butterflies N. Am. 2(10): pl. Satyrus 2, figs. 7 ♂ D&V.

Original Combination: [*Satyrus Alope*] var. *Texana*

Type Locality: "Texas"; defined as "Bastrop, Bastrop Co., Texas" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 374.

Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 374, fig. 17 ♀ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): 188, pl. 63, fig. 21 ♀ V.

- d. ***Cercyonis pegala olympus*** (W. H. Edwards, 1880)
Can. Entomol. 12(2): 31; figured by W. H. Edwards (1882), Butterflies N. Am. 2(10): pl. Satyrus 3, figs. 5 ♂ D&V, 6 ♀ D&V.

Original Combination: [*Satyrus Nephele*] variety *Olympus*

Type Locality: "somewhere between New York and Illinois...to and on the eastern slopes of the Rocky Mountains"; defined as "Chicago, Illinois" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 376, 378. [Cook County]

Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 378, fig. 19 ♂ D&V.

Iftner *et al.* (1992), Ohio Biol. Surv. Bull., n. s. 9(1): 147-148, suggested that the name *olympus* represents part of the variation seen in *nephele* and is a synonym of that name, together with the taxon *borealis* (see below).

= *borealis* F. Chermock, 1929

Bull. Brooklyn Entomol. Soc. 24(1): 21.

Original Combination: *Cercyonis (Satyrus) pegala* race *borealis*

Type Locality: "Trumbull Co., Ohio"

Types: Holotype destroyed as stated by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 195; paratypes in MGCL.

- e. ***Cercyonis pegala nephele*** (W. Kirby, 1837)
In: Richardson, Fauna Bor.-Am. [4]: 297, no. 1.

Original Combination: *Hipparchia Nephele*

Type Locality: "Canada"; defined as "the area at the extreme western end of North Channel, Lake Huron...bounded by the meridians 45° 56'-46° 20' N/83° 19'-84° 06' W in Ontario, Canada" by F. Brown (1966), J. N. Y. Entomol. Soc. 73(4): 240-242.

Types: Type(s) possibly in BMNH.

f. ***Cercyonis pegala ino*** G. Hall, 1924

J. N. Y. Entomol. Soc. 32(2): 109-110, pl. 11, figs. 2 ♂ V (holotype), 3 ♂ V.

Original Combination: *Cercyonis alope ino*

Type Locality: "Calgary, Alberta"

Types: Holotype in AMNH; figured by Sourakov (1995), Holarct. Lepid. 2(1): fig. 2, 1st row, 2nd row D&V.

g. ***Cercyonis pegala incana*** (W. H. Edwards, 1880)

Can. Entomol. 12(5): 91-92.

Original Combination: [*Satyrus Ariane*] *incana*

Type Locality: "Olympia, Washington Territory" [Thurston County]

Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 381, fig. 21 ♂ D&V.

C. Guppy and J. Shepard (2001), Butterflies B. C.: 325, determined this arrangement.

h. ***Cercyonis pegala boopis*** (Behr, 1864)

Proc. Calif. Acad. Sci. [1]3(11): 164.

Original Combination: *Satyrus Boopis*

Type Locality: "Contra Costa" "California" implied from title of paper; neotype from "Point Richmond, Contra Costa County, California."

Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (6): 102, figs. 46 ♂ D, 47 ♂ V.

= *baroni* (W. H. Edwards, 1880)

Can. Entomol. 12(5): 90-91.

Original Combination: [*Satyrus Ariane*] *Baroni*

Type Locality: "various localities in Northern California"; defined as "Mendocino County, California" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 380.

Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 379, fig. 20 ♂ D&V.

i. ***Cercyonis pegala ariane*** (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 307-308, no. 58; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 260, figs. 2180 ♂ D&V, 2181 ♀ D&V.

Original Combination: *Satyrus Ariane*

Type Locality: "dans les forêts"; stated to be "dans les endroits rocailleux des montagnes" by Boisduval (1869), Annls. Soc. Entomol. Belg. 12: 62, no. 61; defined as "Tuolumne County, California" by F. Brown [1966], J. Res. Lepid. 4(2): 139; corrected to "Meadow Valley Rd., 2 miles S. of Spanish Ranch, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 19.

Types: Lectotype in USNM, designated by F. Brown [1966], J. Res. Lepid. 4(2): 141, fig. 2 ♂ D&V; figured by

- J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2):
figs. 108 ♂ D, 109 ♂ V.
- j. **Cercyonis pegala australosierra** J. Emmel, T. Emmel &
K. Davenport, 2008
Bull. Allyn Mus. (157): 2-4, figs. 1 ♂ D&V (holotype), 2 ♀
D&V.
Original Combination: *Cercyonis pegala australosierra*
Type Locality: "California: Tulare County; north end of
Linns Valley, west-southwest of Posey, ca. 3250 feet
elevation, S35, T24S, R30E"
Types: Holotype in MGCL.
- k. **Cercyonis pegala gabbii** (W. H. Edwards, 1870)
Trans. Am. Entomol. Soc. 3(2): 189, 193, no. 7.
Original Combination: *Satyrus Gabbii*
Type Locality: "Oregon"; suggested to be "Lake Co.,
Oregon" by F. Brown (1964), Trans. Am. Entomol. Soc.
90(4): 382-383; further defined as "Goose Lake, Lake
County, Oregon" by Austin (1992), Bull. Allyn Mus. (135):
8.
Types: Lectotype in CMNH, designated by F. Brown
(1964), Trans. Am. Entomol. Soc. 90(4): 384, fig. 22 ♀
D&V.
- l. **Cercyonis pegala carsonensis** Austin, 1992
Bull. Allyn Mus. (135): 10-11, figs. 69 ♂ D (holotype), 70
♀ D, 81 ♂ V (holotype), 82 ♀ V, 93-112 ♂&♀, D&V.
Original Combination: *Cercyonis pegala carsonensis*
Type Locality: "Nevada: Douglas County; Carson River
Valley, Scossa Ranch, Nevada State Route 206, 3.6
miles south of Nevada State Route 207, 1463m, T12N
R19E S26 on USGS Freel Peak, Calif.-Nev. 15'
quadrangle. The area is a lush, marsh area at the base
of the Carson Range"
Types: Holotype in MGCL.
- m. **Cercyonis pegala walkerensis** Austin, 1992
Bull. Allyn Mus. (135): 18-19, figs. 79 ♂ D (holotype), 80
♀ D, 91 ♂ V (holotype), 92 ♀ V, 193-212 ♂&♀, D&V.
Original Combination: *Cercyonis pegala walkerensis*
Type Locality: "California: Mono County; Huntton
Valley, Swanger Creek, U.S. highway 395, Huntton
Camp, 5.4 road miles northwest of Bridgeport, 2048 m
on USGS Fales Hot Springs, Calif.-Nev. 15' Quadrangle.
This is a damp to grassy area along a creek lined with
willows"
Types: Holotype in MGCL.
- n. **Cercyonis pegala wheeleri** (W. H. Edwards,
1873) †
Trans. Am. Entomol. Soc. 4(4): 343; figured by Mead
(1875), Rep. Coll. diurn. Lepid. 5(Zool.): pl. 38, figs. 1 ♂
D, 2 ♂ V, 3 ♀ D, 4 ♀ V, and W. H. Edwards (1877),
Butterflies N. Am. 2(6): pl. Satyrus 1, figs. 1 ♂ D, 2 ♂ V,
3 ♀ D, 4 ♀ V.
Original Combination: *Satyrus Wheeleri*
Type Locality: "between the Cascade and Rocky
Mountains...precise locality not indicated"; incorrectly
suggested to be either "St. George, Utah" or
"Cottonwood Springs, Nevada", by F. Brown [1958], J. N.
Y. Entomol. Soc. 65(3/4): 228; stated as "nr. Owens

Lake, Inyo Co., California" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 387.

Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 387, fig. 23 ♀ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): 190, pl. 63, fig. 16 ♀ V.

= *hoffmani* (Strecker, 1873)

Lepid. Rhop. Het. (4): 31, pl. 4 ♀ D&V; (8): 66, pl. 8, fig. 12 ♂ D&V (1874).

Original Combination: *Satyrus Hoffmani*

Type Locality: "Owens Lake, Nevada [sic!];" part of the same type lot as *wheeleri*. [Inyo County, California]

Types: Lectotype in MGCL, designated by Austin (1992), Bull. Allyn Mus. (135): 6, figs. 21 ♂ D, 27 ♂ V.

o. *Cercyonis pegala paucilineatus* Austin, 1992

Bull. Allyn Mus. (135): 12-13, figs. 71 ♂ D (holotype), 72 ♀ D, 83 ♂ V (holotype), 84 ♀ V, 113-132 ♂&♀, D&V.

Original Combination: *Cercyonis pegala paucilineatus*

Type Locality: "Nevada: Humboldt County; Quin River Valley, U.S. route 95, 3.8 miles south of Orovida, 1304m, T42N R37E S15 on USGS Orovida, Nev. 15' quadrangle. This is a low, somewhat wet, grassy area east of the Quinn River channel and adjacent to cultivated fields"

Types: Holotype in MGCL.

p. *Cercyonis pegala pluvialis* Austin, 1992

Bull. Allyn Mus. (135): 14-16, figs. 75 ♂ D (holotype), 76 ♀ D, 87 ♂ V (holotype), 88 ♀ V, 153-172 ♂&♀, D&V.

Original Combination: *Cercyonis pegala pluvialis*

Type Locality: "Nevada: White Pine County; White River Valley, 1 mile north of Nye County line, 1676m, T10N R61E S11 on USGS Moorman Spring NE, Nev. 7.5' quadrangle. This is a narrow marshy area in the channel of the pluvial White River"

Types: Holotype in MGCL.

q. *Cercyonis pegala paludum* Austin, 1992

Bull. Allyn Mus. (135): 16-18, figs. 77 ♂ D (holotype), 78 ♀ D, 89 ♂ V (holotype), 90 ♀ V, 173-192 ♂&♀, D&V.

Original Combination: *Cercyonis pegala paludum*

Type Locality: "Nevada: Elko County; Pleasant Valley, Nevada State Route 227, 3.7-4.0 miles west of Lamoille Canyon Road, 1719m, T33N R57E S21 on USGS Lee, Nev. 15' quadrangle. The area is a wet grassy meadow along a stream lined with willow"

Types: Holotype in MGCL.

r. *Cercyonis pegala stephensi* (W. G. Wright, 1905)

Butterflies W. Coast: 58, no. 249; 184, no. 249, pl. 23, figs. 249 ♀ [not ♂] D, 249b ♀ [not ♂] D (lectotype), 249c ♀ V.

Original Combination: [*Satyrus*] *Stephensi*; *Satyrus Stephensi* n. s.

Type Locality: "Northeastern Cal.; Nevada; Ore."

"Northeastern California"; defined as "the valley some miles south of the southernmost Alkali Lake, in Modoc Co." by J. A. Comstock (1924), Bull. South. Calif. Acad. Sci. 23(1): 16; further defined as "between Lake City and

Cedarville, Surprise Valley, Modoc County, California" by Austin (1992), Bull. Allyn Mus. (135): 9.

Types: Lectotype (#4314) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 26.

= *blanca* T. Emmel & Mattoon, 1972

J. Lepid. Soc. 26(3): 141-142, figs. 2 ♂ D (holotype), 3 ♀ D, 5 ♂ V (holotype), 6 ♀ V.

Original Combination: *Cercyonis pegala blanca*

Type Locality: "Nevada, Hwy. 140 at Dufurrena Ranch--Chas. Sheldon Antelope Range, T45N, R26E, Humboldt County"

Types: Holotype in MGCL.

s. ***Cercyonis pegala utahensis*** Austin, 1992

Bull. Allyn Mus. (135): 13-14, figs. 73 ♂ D (holotype), 74 ♀ D, 85 ♂ (holotype), 86 ♀ V, 133-152 ♂&♀, D&V.

Original Combination: *Cercyonis pegala utahensis*

Type Locality: "Utah: Utah County; Benjamin, vicinity of 7300S at 2610W, 1390m, on the farm of Joel M.

Johnson of Payson, Utah. Types were taken here in a grassy area along a small stream, in an orchard and in a grassy field"

Types: Holotype in MGCL.

786. ***Cercyonis meadii*** (W. H. Edwards, 1872)

a. ***Cercyonis meadii meadii*** (W. H. Edwards, 1872)

Trans. Am. Entomol. Soc. 4(1/2): 61, 70, no. 10; figured by W. H. Edwards (1891), Butterflies N. Am. 3(11): pl. Satyrus 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Erebia Meadii*

Type Locality: "Bailey's Ranch, in the South Park, Colorado, about 45 miles from Denver" [Bailey, Park County]

Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 372, fig. 16 ♀ D&V.

b. ***Cercyonis meadii alamosa*** T. Emmel & J. Emmel, 1969

J. Lepid. Soc. 23(3): 161-163, figs. 1 ♂ D (holotype), 2 ♀ D, 3 ♂ V, 4 ♀ V, 5 ♂ genitalia.

Original Combination: *Cercyonis meadii alamosa*

Type Locality: "Colorado, San Luis Valley, 7.0 miles north of junction of Highway 17 & Highway 112, on Highway 17, Saguache County, 7539' elevation"

Types: Holotype in LACM.

c. ***Cercyonis meadii melania*** (Wind, 1946)

Pan-Pac. Entomol. 22(1): 25-26.

Original Combination: *Minois meadii melania*

Type Locality: "Marfa-Alpine, Texas" [Presidio-Brewster counties]

Types: Holotype in CAS.

d. ***Cercyonis meadii damei*** W. Barnes & Benjamin, 1926

Bull. South. Calif. Acad. Sci. 25(3): 90, no. 113.1.

Original Combination: *Cercyonis damei*

Type Locality: "Grand Canyon, Arizona" [Coconino County]

Types: Holotype in USNM.

Scott (1982), J. Res. Lepid. 20(1): 62, considered this to be a probable hybrid between *C. meadii* and *C. sthenele*. This name predates *mexicana* and *masoni*.

= *mexicana* R. Chermock, 1949

Can. Entomol. 80(6): 172.

Original Combination: *Cercyonis meadii mexicana*

Type Locality: "Chihuahua, Mexico"; defined as "head of the Rio Piedras Verdes, in Chihuahua, at an elevation of from 7,100 to 7,300 feet...in the Sierra Madre region" by Clench (1965), Entomol. News 76(6): 158, who quoted W. Holland (1900), Entomol. News 10(11): 332-333, from the description of *Argynnis nitocris* var. *coerulescens*.

Types: Holotype in CMNH.

787. **Cercyonis sthenele** (Boisduval, 1852)

a. **Cercyonis sthenele masoni** Cross, 1937

Proc. Colo. Mus. Nat. Hist. 16(1): 9-10, fig., D&V (holotype).

Original Combination: *Cercyonis masoni*

Type Locality: "'Black Ridge Breaks'...Mesa County" [Colorado]

Types: Holotype possibly in DNHC.

b. **Cercyonis sthenele paulus** (W. H. Edwards, 1879)

Can. Entomol. 11(3): 50-51.

Original Combination: *Satyrus Paulus*

Type Locality: "Nevada" implied from the title of paper; neotype from "vic. Virginia City, Storey Co., Nevada."

Types: Neotype designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 365, fig. 13 ♂ D&V.

c. **Cercyonis sthenele silvestris** (W. H. Edwards, 1861)

Proc. Acad. Nat. Sci. Philad. 13(6): 160, 162-163, no. 5; figured by W. H. Edwards (1895), Butterflies N. Am. 3(16): pl. *Satyrus* 3, figs. 5 ♂ V.

Original Combination: *Satyrus Silvestris*

Type Locality: "California"; defined as "two air miles southwest of Pulga, north Fork Feather River Canyon, Butte County, California" by T. Emmel and J. Emmel (1998), Syst. W. N. Am. Butterflies (9): 121.

Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 362, fig. 12 ♂ D&V.

= *okius* (Oberthür, 1914)

Étud. Lépid. Comp. 9(2): 79, pl. 260, figs. 2184 ♂ D&V; cited Boisduval (1852), Annls. Soc. Entomol. Fr. (2)10(2): 307.

Original Combination: [*Satyrus Ariane*] *Okius*

Type Locality: "Californie" implied from the citation of Boisduval's paper.

Types: Holotype in USNM.

This taxon seems best placed here for the present, but it may be a senior synonym of *C. s. sineocellata*.

d. **Cercyonis sthenele sineocellata** Austin & J. Emmel, 1998

Syst. W. N. Am. Butterflies (42): 514-515, figs. 63 ♂ D, 64 ♂ V (holotype); 65 ♀ D, 66 ♀ V.

Original Combination: *Cercyonis sthenele sineocellata*

Type Locality: "Oregon: Lake County; west side of Crump Lake, 8.2 road miles north of Adel"

Types: Holotype in MGCL.

e. **Cercyonis sthenele behrii** (F. Grinnell, 1905)

Entomol. News 16(2): 33-34.

Original Combination: *Satyrus behrii*

Type Locality: "Mt. Tamalpais, Marin Co., California. Right across the bay from San Francisco"; neotype from "Pan Toll Camp, Mt. Tamalpais, Marin County, California."

Types: Type destroyed in the 1906 San Francisco earthquake and fire; neotype in LACM, designated by T. Emmel and J. Emmel (1998), Syst. W. N. Am. Butterflies (8): 118, figs. 1 ♂ D, 2 ♂ V.

f. *Cercyonis sthenele sthenele* (Boisduval, 1852) †

Annls. Soc. Entomol. Fr. (2)10(2): 308-309, no. 59; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 260, figs. 2182 ♂ D&V (lectotype), 2183 ♀ D&V.

Original Combination: *Satyrus Sthenele*

Type Locality: "Californie" implied from the title of the paper; suggested to be "San Francisco" by F. Brown [1966], J. Res. Lepid. 4(2): 141; further defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 19.

Types: Lectotype in USNM, designated by F. Brown [1966], J. Res. Lepid. 4(2): 141, fig. 3 ♀ D&V; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): figs. 114 ♂ D, 115 ♂ V.

g. *Cercyonis sthenele hypoleuca* Hawks & J. Emmel, 1998

Syst. W. N. Am. Butterflies (25): 321-322, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

Original Combination: *Cercyonis sthenele hypoleuca*

Type Locality: "USA, California, Santa Barbara County, Santa Cruz Island, Canada Sauces Oeste"

Types: Holotype in PMNH.

788. *Cercyonis oetus* (Boisduval, 1869)

a. *Cercyonis oetus charon* (W. H. Edwards, 1872)

Trans. Am. Entomol. Soc. 4(1/2): 61, 69, no. 9; figured by W. H. Edwards (1895), Butterflies N. Am. 3(16): pl. Satyrus 3, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Satyrus Charon*

Type Locality: "near the Twin Lakes, in Upper Arkansas Valley, (elevation 8000 feet)...throughout the entire Park and mountain country" [Colorado]

Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 368, fig. 14 ♂ D&V; paralectotypes figured by W. Holland (1898), Butterfly Book: pl. 26, figs. 11 ♂ D, 12 ♀ D and (1931), Butterfly Book (rev. ed.): pl. 63, figs. 24 ♀ V, 25 ♂ D.

b. *Cercyonis oetus phocus* (W. H. Edwards, 1874)

Trans. Am. Entomol. Soc. 5(1): 14-15.

Original Combination: *Satyrus Phocus*

Type Locality: "Lake Labache [*sic!*], British Columbia" [Lake La Hache]

Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 370 fig. 15 ♂ D&V.

c. *Cercyonis oetus oetus* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 63, no. 62; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 264, figs. 2203 ♂ D&V, 2204 ♀ D&V (lectotype).

Original Combination: *Satyrus Oetus*

Type Locality: “dans les lieux rocaillieux des montagnes”; defined as “west slope of Mt. Judah, south-southeast of Donner Pass, Placer County, California” by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 35.

Types: Lectotype in USNM, designated by F. Brown [1966], J. Res. Lepid. 4(2): 142-143, fig. 4 ♀ D&V; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): figs. 267 ♀ D, 268 ♀ V.

- d. **Cercyonis oetus pallescens** T. Emmel & J. Emmel, 1971

Pan-Pac. Entomol. 47(2): 155-157.

Original Combination: *Cercyonis oetus pallescens*

Type Locality: “Reese River Valley, 4 road miles northeast of Reese River crossing on Nevada Highway 2 [now 722], 5,700 ft. elevation, westsouthwest Austin, southwest corner of T. 19 north, R. 43 east, Lander County, Nevada”

Types: Holotype in MGCL.

- e. **Cercyonis oetus alkalorum** Austin, 1998

Syst. W. N. Am. Butterflies (46): 579, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V.

Original Combination: *Cercyonis oetus alkalorum*

Type Locality: “Nevada: Nye County; Big Smoky Valley, north end of Alkali Flat, Northumberland Mine Road, 1.5-1.7 road miles east of Nevada State Route 376, 1676 m, T14N F43E S1 on USGS Millett Ranch, Nev. 15' quadrangle”

Types: Holotype in MGCL.

Subtribe **Maniolina** Verity, 1953

Farfalle diurne Ital. 5: 228, 237 (as “Maniolidi”). Type-genus: *Maniola* Schrank, 1801, Fauna boic. 2(1): 152, no. 199. I.C.Z.N. *Opinion 506* placed Maniolidi on the *Official List of Family-Group Names in Zoology* as name no. 214, and *Maniola* on the *Official List of Generic Names in Zoology* as name no. 1254.

Genus **Gyrocheilus** Butler, 1867

Ann. Mag. Nat. Hist. (3)20(118): 267, fig. 3. Type-species: *Pronophila patrobas* Hewitson, 1862, Trans. Entomol. Soc. Lond. (3)1(1): 16, pl. 6, figs. 40, 41, by original designation.

- *789. **Gyrocheilus patrobas** (Hewitson, 1862)

Trans. Entomol. Soc. Lond. (3)1(1): 16, no. 38, pl. 6, figs. 40 ♂ D, 41 ♂ V.

Original Combination: *Pronophila Patrobas*

Type Locality: “Mexico”

Types: Syntypes in BMNH.

- a. **Gyrocheilus patrobas tritonia** W. H. Edwards, 1874

Trans. Am. Entomol. Soc. 5(1): 18; figured by W. H. Edwards (1889), Butterflies N. Am. 3(7): pl. Gyrocheilus 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Geirochilus* [sic!] *Tritonia*

Type Locality: “White Mountains, Arizona”

Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 410, fig. 34, ♂ D&V.

Subtribe **Erebiina** Tutt, 1896

Entomol. Rec. & J. Var. 7(12): 301 (as "Erebiinae" "Erebiidi"). Type-genus: *Erebia* Dalman, 1816, K. svenska VetenskAkad. Handl. 37(1): 58. I.C.Z.N. *Opinion 506* placed Erebiinae on the *Official List of Family-Group Names in Zoology* as name no. 215. This entry was not specifically mentioned in I.C.Z.N. *Opinion 506*, however it is senior to the entry in that *Opinion*: Tutt (1896), Brit. Butterflies: 87, 402. An application must be made to the I.C.Z.N. to correct the *Official List* and *Index* (Code Article 79.5).

Genus **Erebia** Dalman, 1816

K. svenska VetenskAkad. Handl. 37(1): 58. Type-species: *Papilio ligea* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 473, no. 97, by original designation. I.C.Z.N. *Opinion 506* placed this name on the *Official List of Generic Names in Zoology* as name no. 1255.

- = ‡*Epigea* Hübner, [1819]
Verz. bekannt. Schmett. (4): 62. Type-species: *Papilio ligea* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 473, no. 97, by designation of Hemming (1933), Entomol. 66(844): 198. A junior objective synonym of *Erebia*. I.C.Z.N. *Opinion 506* placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 1143.
- = *Syngea* Hübner, [1819]
Verz. bekannt. Schmett. (4): 62. Type-species: *Papilio pronoe* Esper, 1780, Die Schmett. 1(2)(1): 23-24, pl. 54 (Cont. 4), fig. 1, by designation of Hemming (1933), Entomol. 66(844): 198.
- = *Phorcis* Hübner, [1819]
Verz. bekannt. Schmett. (4): 62. Type-species: *Phorcis epistygne* Hübner, [1819], Verz. bekannt. Schmett. (4): 62, no. 591, by designation of Hemming (1933), Entomol. 66(844): 198.
- = *Marica* Hübner, [1819]
Verz. bekannt. Schmett. (4): 63. Type-species: *Papilio stygne* Ochsenheimer, 1807, Schmett. Europa 1(1): 276, no. 52 (= *Papilio meolans* de Prunner, 1798, Lepid. Pedemont.: 71; synonym), by designation of Hemming (1933), Entomol. 66(844): 198.
- = *Gorgo* Hübner, [1819]
Verz. bekannt. Schmett. (4): 64. Type-species: *Papilio ceto* Hübner, [1804], Samml. Europ. Schmett. 1: pl. 112, figs. 578, 579 (= *Papilio alberganus* de Prunner, 1798, Lepid. Pedemont.: 71; synonym), by designation of Hemming (1933), Entomol. 66(844): 198.
- = ‡*Oreina* Westwood, 1841
In: Brit. Butterflies Transf. (ed. 1): 76. Type-species: *Papilio cassiope* Fabricius, 1787, Mantissa Ins. 2: 42, no. 417, by designation of Butler (1868), Entomol. Mon. Mag. 4(45): 194. Preoccupied by *Oreina* Chevrolet, 1835, in: Dejean, Cat. Coléopt. (ed. 2): 402.
- = *Medusia* Verity, 1953
Le Farfalle diurn. d'Italia 5: 179. Type-species: *Papilio medusa* [Denis & Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 167, no. 10, by original designation.
- = *Triariia* Verity, 1953
Le Farfalle diurn. d'Italia 5: 186. Type-species: *Papilio triarius* de Prunner, 1798, Lepid. Pedemont.: 70, by original designation.
- = *Truncaefalcia* Verity, 1953
Le Farfalle diurn. d'Italia 5: 188. Type-species: *Papilio aethiops* Esper, 1777, Die Schmett. 1(1)(5): pl. 25 (Supp. 1), fig. 3; (9): 312-313, by original designation.
- = ‡*Simplicia* Verity, 1953

Le Farfalle diurn. d'Italia 5: 194. Type-species: *Papilio epiphron* Knoch, 1783, Beitr. Insektengesch. 3: 131-132, no. 3, pl. 6, fig. 7, by original designation. Preoccupied by *Simplicia* Guenée, 1854, Spec. gén. Lépid. 8: 51.

= *Simplospinosia* Verity, 1957

Entomol. Rec. & J. Var. 69(10): 225. Type-species: *Papilio epiphron* Knoch, 1783, Beitr. Insektengesch. 3: 131-132, no. 3, pl. 6, fig. 7, as a replacement name. Proposed to replace *Simplicia* Verity, 1953, preoccupied (Code Articles 60.3, 67.8).

vidleri group B. Warren, 1936
Monogr. Erebia: 128.

790. Erebia vidleri Elwes, 1898

Trans. Entomol. Soc. Lond. (4)1898(2): 179, no. 2, 195; ♂ genitalia figured by Chapman (1898), Trans. Entomol. Soc. Lond. (4)1898(2): pl. 5, figs. 4a, 4b, 4c.

Original Combination: *Erebia vidleri*

Type Locality: "the mountains above Seton Lake, near Lilloet [*sic!*] on the Fraser river, British Columbia" [Lillooet]

Types: Holotype (#3554) in BMNH.

triarius group B. Warren, 1936
Monogr. Erebia: 153.

791. Erebia rossii (J. Curtis, 1835)

a. Erebia rossii ornata Leussler, 1935

Bull. Brooklyn Entomol. Soc. 30(2): 50, no. 18.

Original Combination: *Erebia rossii* race *ornata*

Type Locality: "Churchill...Churchill region of the Hudson Bay country" [west shore of Hudson Bay, 58° N, Manitoba]

Types: Holotype in OSU; paratypes figured by dos Passos (1949), Am. Mus. Novit. (1389): figs. 13 ♂ D, 14 ♂ V, 15 ♀ D, 16 ♀ V.

b. Erebia rossii rossii (J. Curtis, 1835)

In: Ross, Voy. Search Northwest Pass., Appendix: lxvii, no. 12, pl. A, fig. 7 ♂ V.

Original Combination: [*Hipparchia*] *Rossii*

Type Locality: "Arctic Regions"; determined from itineraries in vol. 1 and a copy of a letter from John Ross in vol. 2, Addenda: 732-735, to be the area bounded by 69.30°-70.9° N Lat. and 91.52°-93.0° W Long, in the vicinity of the isthmus of Boothia Peninsula, named by the expedition. [Kitikmeot-Keewatin regions, Nunavut]

Types: Syntypes in USNM.

= ‡"anocellus" Scott, 1981

Papilio (n.s.) 1: 4.

Original Combination: *Erebia*

rossii form *anocellus*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

= ‡"brucei" Scott, 1986

Butterflies N. Am.: 243, no. 113.

Original Combination: *Erebia rossii* form *brucei*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*. This is a case of Scott proposing a "form" name to correspond with an already named "form" of another species.

embla group B. Warren, 1936
Monogr. Erebia: 164.

- c. **Erebia rossii gabrieli** dos Passos, 1949
Am. Mus. Novit. (1389): 12-16, figs. 17 ♂ D, 18 ♂ V; 19 ♂ D, 20 ♂ V (holotype); 21 ♂ D, 22 ♂ V, 23 ♀ D, 24 ♀ V, 25 ♀ D, 26 ♀ V, 27 ♀ D, 28 ♀ V.
Original Combination: *Erebia rossii gabrieli*
Type Locality: "Mount McKinley Park, 3500 feet, Alaska"
Types: Holotype in AMNH.
- d. **Erebia rossii kuskoquima** W. Holland, 1931
Butterfly Book (rev. ed.): 203, pl. 61, figs. 21 ♂ D, 22 ♀ D, 23 ♀ V.
Original Combination: *Erebia rossii* [sic]
Var. *kuskoquima*
Type Locality: "Kuskoquim Valley"; defined as "Bethel, about 20 miles up the Kuskoquim River at the inland edge of the coastal tundra" by dos Passos (1949), Am. Mus. Novit. (1389): 11-12.
Types: Syntypes in CMNH.

- *792. **Erebia disa** (Thunberg, 1791)
Diss. Ins. Svecica (2): 37, pl. 2, figs. 6, [6a] ♂ D&V.
Original Combination: *Papilio*
Disa [*Papilio*]. *n[ymphalis]*. *g[emmata]*.
Type Locality: "in Lapponia"; defined as "Sweden: Lappland" by Karsholt and Nielsen (1986), Entomol. Scand. 16(4): 443.
Types: Lectotype at UZIU, designated by Karsholt and Nielsen (1986), Entomol. Scand. 16(4): 443, fig. 3 ♀ D.
= *gesion* (Quensel, 1791)
K. Vetensk. Akad. Nya Handl. 12(3): 270-272, no. 2, pl. 9, figs. 3 ♀ D, 4 ♀ V, 5 ♂ D, 6 ♂ V; cited Ernst (1780), Pap. Europ.: pl. 65, fig. 42.
Original Combination: *P[apilio]*. *N[ymphales]*. *G[emmat]*. *Gesion*
Type Locality: "In Lapponia Tornoensi maxime boreali ad Enontäkis"
Types: Location of type(s) not known.
= *griela* (Fabricius, 1793)
Entomol. Syst. 3(1): 236, no. 737.
Original Combination: *P[apilio]*. *S[atyr]*. *Griela*
Type Locality: "Lapponiae summis alpihus" [Lapland, Norway and Sweden]
Types: Syntype in ZMUC.
= *stheno* (Hübner, [1804])
Samml. europ. Schmett. 1: pl. 109, figs. 561 ♀ D, 562 ♀ V [1804]; 38, no. 62 [1806].
Original Combination: [*Papilio*] *Stheno*
Type Locality: 'Alpen Lappland'.
Types: Type(s) probably lost.
- a. **Erebia disa steckeri** W. Holland, 1930
Trans. Am. Entomol. Soc. 56(3): 153; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 61, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Erebia steckeri*
Type Locality: "Kuskoquim River, Alaska...at the Moravian Mission"; suggested to be "Bethel, about 20

miles up the Kuskokwim River at the inland edge of the coastal tundra" by dos Passos (1949), Am. Mus. Novit. (1389): 11-12.

Types: Syntypes in CMNH; one figured by Howe (1975), Butterflies N. Am.: pl. 16, fig. 13 ♂ D&V.

b. *Erebia disa subarctica* McDunnough, 1937

Can. Entomol. 69(1): 16-17.

Original Combination: *Erebia disa* var. *subarctica*

Type Locality: "Mackenzie Delta, N. W. T." [Northwest Territories]

Types: Holotype (#4118) in CNC.

793. *Erebia mancinus* E. Doubleday, [1849]

In: Gen. diurn. Lepid. (1): pl. 64, fig. 2; 2(43): 380, no. 58 (Westwood, 1850).

Original Combination: *Erebia Mancinus*

Type Locality: "Rocky Mountains"; defined as "Rock Lake, Alberta (53° 27'N, 118° 16'W)" by J. Shepard (1984), Quaest. Entomol. 20(1): 40-41.

Types: Lectotype (#3581) in BMNH, designated by J. Shepard (1984), Quaest. Entomol. 20(1): 42, figs. 3♀ D, 4♀ V.

Layberry *et al.* (1998), Butterflies Can.: 221, elevated this taxon to the species-level, based on wing and genitalic characters.

magdalena group B. Warren, 1936

Monogr. *Erebia*: 175; revised by Hilchie (1990), Quaest. Entomol. 26(4): 673.

794. *Erebia magdalena* Strecker, 1880

a. *Erebia magdalena magdalena* Strecker, 1880

Bull. Brooklyn Entomol. Soc. 3(5): 25.

Original Combination: *Erebia Magdalena*

Type Locality: "some almost inaccessible place on the mountains near Georgetown, Colorado" [Clear Creek County]

Types: Syntypes in FMNH.

b. *Erebia magdalena hilchie* Kemal & Koçak, 2007

Centre Entomol. Stud. Ankara. Misc. Pap. (137): 1.

Original Combination: *Erebia magdalena* ssp. *hilchie*
Proposed as a replacement name for *Erebia magdalena saxicola* Hilchie, 1990, preoccupied, with the same data (Code Article 60.3).

= ‡*saxicola* Hilchie, 1990

Quaest. Entomol. 26(4): 684, figs. 1♀ VHW surface, 2♂ VHW surface, 4♀ live photograph, 31♂ genitalia, 32, 32a♂ valve, 33, 33a♂ valve, 41 antennal club (many life history figures).

Original Combination: *Erebia magdalena saxicola*

Type Locality: "Adams Lookout, Alberta Forestry Service, Wilmore Wilderness Park, 43 km southeast of Grande Cache, Alberta, Canada"

Types: Holotype in CNC.

Preoccupied by *Erebia saxicola* Oberthür, 1876, Etüd. Entomol. 2: 32, pl. 4, fig. 1.

795. *Erebia mackinleyensis* Gunder, 1932

Can. Entomol. 64(12): 278.

Original Combination: *Erebia mackinleyensis*

Type Locality: "Sable Pass, Mckinley National Park, Alaska"
[Denali National Park]

Types: Holotype in AMNH.

Hilchie (1990), Quaest. Entomol. 26(4): 673, considered this a species-level taxon.

796. *Erebia fasciata* Butler, 1868

a. *Erebia fasciata fasciata* Butler, 1868

Cat. Sat. Brit. Mus.: 92, pl. 2, fig. 8 ♂ V.

Original Combination: *Erebia Fasciata*

Type Locality: "Arctic America"; defined as "Winter Cove, Cambridge Bay" by Elwes (1898), Trans. Entomol. Soc. Lond. (4)1898(2): 183. [Northwest Territories]

Types: Syntypes in BMNH and CMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 61, figs. 5 ♂ D, 6 ♀ V and B. Warren (1936), Monogr. Erebia: pl. 76, figs. 995 ♂ D, 1001 ♂ V.

= ‡"suffusa" B. Warren, 1936

Monogr. Erebia: 180, genitalia pl. 35, fig. 329, pl. 77, fig. 1006 ♂ V (lectotype).

Original Combination: [*Erebia fasciata fasciata*] ab. *suffusa*

Type Locality: Not specifically stated; "lectotype" from "Bernhard Harbour, north coast, North-West Territories."

Types: "Lectotype" in CNC, designated (as holotype) by McDunnough (1937), Can. Entomol. 69(1): 17.

b. *Erebia fasciata avinoffi* W. Holland, 1930

Trans. Am. Entomol. Soc. 56(3): 151-152; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 61, fig. 7 ♀ V (holotype), 8 ♂ D (paratype), 9 ♀ V (paratype).

Original Combination: *Erebia avinoffi*

Type Locality: "Kotzebue Sound, Alaska"

Types: Holotype in CMNH.

medusa group B. Warren, 1936
Monogr. Erebia: 182.

797. *Erebia epipsodea* Butler, 1868

The synonymy below follows Layberry *et al.* (1998), Butterflies Can.: 227.

a. *Erebia epipsodea brucei* Elwes, 1889

Trans. Entomol. Soc. Lond. (4)1889(2): 326, 334-335.

Original Combination: [*Erebia epipsodea*] ? var. *brucei*

Type Locality: "Summit County, Colorado, 12,000 ped...Cashier Valley, Summit County [sic!], Colorado, at 12,000 feet" [Park County]

Types: Holotype in BMNH.

= ‡*rhodia* W. H. Edwards, 1871

Trans. Am. Entomol. Soc. 3(3/4): 266, 273-274, no. 14; figured by W. H. Edwards (1890), Butterflies N. Am. 3(9): pl. Erebia 3, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V, 5 ♂ D (as *epipsodea*).

Original Combination: *Erebia Rhodia*

Type Locality: "Colorado"; suggested to be "Fairplay" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 161. [Park County]

Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 406, fig. 32 ♂ D&V.

This name is a secondary homonym of *Melampias rhodia* Hübner, [1819], Verz. bekannt. Schmett. (4): 63, no. 611, which currently is a synonym of *Erebia epiphron aetherius* (Esper, 1805) Die Schmett. 1(suppl.)(2)(11): pl. 122, fig. 3, 4.

b. *Erebia epipsodea epipsodea* Butler, 1868

Cat. Sat. Brit. Mus.: 80, pl. 2, fig. 9 ♂ V.

Original Combination: *Erebia Epipsodea*

Type Locality: "Rocky Mountains"; suggested to be "vic. Banff, Alberta" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 199; defined as "Rock Lake, Alberta" by Kondla (1996), Alberta Naturalist 26(2): 40.

Types: Syntypes (#3582) in BMNH; one figured by Ehrlich (1955), Univ. Kans. Sci. Bull. 37(1)(6): figs. 1A ♂ D, 1B ♂ V.

= *hopfingeri* P. Ehrlich, 1954

J. Kans. Entomol. Soc. 27(2): 80; figured by Ehrlich (1955), Univ. Kans. Sci. Bull. 37(1)(6): figs. 2E ♂ D, 3E ♂ V (holotype); 2D ♀ D, 3D ♀ V.

Original Combination: *Erebia epipsodea hopfingeri*

Type Locality: "Black Canyon 1000 feet, South of Methow, Okanogan County, Washington"

Types: Holotype in AMNH.

c. *Erebia epipsodea sineocellata* Skinner, 1889 (emended)

Can. Entomol. 21(12): 239.

Original Combination: *Erebia sine-ocellata*

Type Locality: "Fort Qu'Appelle...(thirty miles north of an old Hudson Bay Post called Fort Qu'Apelle)" [Saskatchewan]

Types: Syntype (#7042) in CMNH.

This name was available as originally described, not infrasubspecific as sometimes considered (e.g., L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 199).

= *freemani* P. Ehrlich, 1954

J. Kans. Entomol. Soc. 27(2): 80; figured by Ehrlich (1955), Univ. Kans. Sci. Bull. 37(1)(6): figs. 2G ♂ D, 3G ♂ V (holotype); 2H ♀ D, 3H ♀ V.

Original Combination: *Erebia epipsodea freemani*

Type Locality: "Lloydminster, Alberta"; defined as "the vicinity of Rivercourse, Alberta" by Kondla (1996), Alberta Naturalist 26(2): 40.

Types: Holotype in AMNH.

d. *Erebia epipsodea remingtoni* P. Ehrlich, 1952

Entomol. News 63(9): 225-229.

Original Combination: *Erebia epipsodea remingtoni*

Type Locality: "Dawson, Yukon Territory"

Types: Holotype in CMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 61, figs. 24 ♀ D (paratype) 27 ♂ V (holotype).

edda group B. Warren, 1936
Monogr. Erebia: 198.

798. *Erebia discoidalis* (W. Kirby, 1837)

a. *Erebia discoidalis discoidalis* (W. Kirby, 1837)

In: Richardson, Fauna Bor.-Am. [4]: 298, no. 2, pl. 3, figs. 2 ♂ D, 3 ♂ V.

Original Combination: *Hipparchia Discoidalis*

Type Locality: "Cumberland-house, Lat. 54°"
[Saskatchewan]

Types: Type(s) may be lost or in NMID, not in BMNH.

= *mcdunnoughi* dos Passos, 1940
Am. Mus. Novit. (1053): 1-2.

Original Combination: *Erebia discoidalis*
mcdunnoughi

Type Locality: "White Horse, Alaska [sic!]"
[Whitehorse, Yukon]

Types: Holotype in AMNH.

Spelled "macdunnoughi" by dos Passos (1958), Proc.
Int. Congr. Entomol. 10(Montreal 1956)1: 678; this is
an unjustified emendation.

alberganus group B. Warren, 1936
Monogr. Erebia: 217.

***799. *Erebia pawloskii* Ménétriés, 1859**

Bull. class. phys. math. Acad. Imp. Sci. St. Petersburg (ser.
2)17(416/32): 498-499, no. 14.

Original Combination: *Erebia Pawloskii*

Type Locality: "près de la rivière Grande Sibagli" [in Basin
of the Ugur River, a tributary of the Aldan River, Sakha
Republic, Russia]

Types: Type(s) probably in ZIN.

There have been various misspellings of this name but the
original orthography must stand even though it is obvious
that the name is a patronym of Pavlovsk. This species in
North America was formerly but incorrectly called *Erebia*
theano (Tauscher, 1806) by most previous authors. Various
Russian researchers (e.g., Gorbunov (2001), Butterflies
Russia Class.: 255) have shown that *E. pawloskii* and *E.*
theano are distinct species-level taxa, and that *E.*
pawloskii is the North American taxon.

= *herzi* Christoph, 1889

Horae Soc. Entomol. Ross. 23(1/2): 299, no. 2.

Original Combination: *Erebia Herzi*

Type Locality: "Mittleres Lena-Gebiet...mittleren Lena"
[Sakha Republic, Russia]

Types: Syntypes possibly in BMNH.

= *sajana* Staudinger, 1895

Deut. Entomol. Z. "Iris" 7(2): 244-246.

Original Combination: *Er[ebia]. Pawloskyi* [sic!]
var. *Sajana*

Type Locality: "Ost-Sajan Gebiet...Munku Sardyk-
Gebirge" [Republic of Buryatia, Russia]

Types: Type(s) probably at ZMHB.

= ‡"ultima" B. Warren, 1931

Entomol. Rec. & J. Var. 43(11): 171; figured by B.
Warren (1936), Monogr. Erebia: pl. 83, figs. 1154 ♂
D, 1155, 1161 ♂ V, 1162.

Original

Combination: *E[rebia]. theano* ssp. *pawloskii* ab. *ulti*
ma

Type Locality: "E. Sajan mountains"; "holotype"
from "Tunkun Mountains, Irkutsk" [Republic of
Buryatia, Russia]

Types: "Holotype" in BMNH.

= ‡"penultima" B. Warren, 1936
Monogr. Erebia: 239.

Original Combination: *Erebia theano*
pawloskii ab. *penultima*

Type Locality: Not stated.

Types: "Holotype" presumably in BMNH.

- = ‡"aequalis" B. Warren, 1936
Monogr. *Erebia*: 239, pl. 83, figs. 1152 ♂ D, 1153 ♂ V (holotype); 1160.

Original Combination: *Erebia theano*
pawloskii f. *aequalis*

Type Locality: Not stated in text; "holotype" from "East Sayan Mountains." [Republic of Buryatia, Russia]

Types: "Holotype" in BMNH.

- a. ***Erebia pawloskii alaskensis*** W. Holland, 1900
Entomol. News 11(3): 387, no. 20; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 61, fig. 13 ♂ D, 14 ♂ V, 15 ♀ V.
Original Combination: *E[rebia]. sofia* var. *alaskensis*
Type Locality: "Eagle City, Alaska...American Creek, Alaska"
Types: Syntypes in CMNH.
- b. ***Erebia pawloskii canadensis*** B. Warren, 1931
Entomol. Rec. & J. Var. 43(11): 172.
Original Combination: [*Erebia theano*] *canadensis*
Proposed to replace *Erebia sofia* Strecker, 1931, preoccupied, with the same data (Code Article 60.3).
= ‡*sofia* Strecker, 1880
Bull. Brooklyn Entomol. Soc. 3(5): 35.
Original Combination: *Erebia Sofia*
Type Locality: "a considerable distance above Fort Churchill on west coast of Hudson's Bay" implied from the description of *Colias hela*.
Types: Holotype in FMNH.
Preoccupied by *Papilio sophia* Quensel, 1802, in: Acerbi, Trav. North Cape 2: 254.
= ‡"churchillensis" B. Warren, 1936
Monogr. *Erebia*: 387-388.
Original Combination: *Erebia theano*
canadensis ♀ f. *churchillensis*
Type Locality: "Fort Churchill" [Manitoba]
Types: "Holotype" in BMNH.
- c. ***Erebia pawloskii ethela*** W. H. Edwards, 1891
Can. Entomol. 23(2): 31.
Original Combination: *Erebia Ethela*
Type Locality: "Yellowstone Park"; lectotype from "Trout Creek, Yellowstone National Park." [Wyoming]
Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 402-403, fig. 31 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 61, fig. 10 ♂ V (lectotype), 11 ♀ V (paralectotype).
- d. ***Erebia pawloskii demmia*** B. Warren, 1936
Monogr. *Erebia*: 235-236.
Original Combination: *E[rebia]. theano demmia*
Type Locality: "San Juan Mountains of Colorado: north Ridge Chicago Basin Trail, La Plata Co., and South Ridge of same, both at altitudes of 12,500 ft.; somewhat lower in the Chicago Basin at 12,000 ft.; on the Chicago

Basin Trail between 10,700 and 11,000 ft.; the Columbine Pass at 12,500 ft., and one female from the Treasure Mountain. Mineral Co., at 12,000 ft."

Types: Holotype in AMNH.

- 800. *Erebia youngi*** W. Holland, 1900
 Scott (1986), Butterflies N. Am.: 245, no. 120, considered *E. youngi* to be the North American representative of *E. dabanensis* Ershov, 1872, Horae Soc. Entomol. Ross. 8(4): 315-316, no. 2. Troubridge and Philip (1983), J. Res. Lepid. 21(2): 107-146, detailed reasons for considering them separate species, and Belik and Zamolodchikov (2002), Nota Lepid. 25(1): 61-78, corroborated the species-level status of *E. youngi*.
- a. *Erebia youngi herscheli*** Leussler, 1935
 Bull. Brooklyn Entomol. Soc. 30(2): 51, no. 20.
Original Combination: *Erebia herscheli*
Type Locality: "Herschel Island" [Beaufort Sea, Yukon]
Types: Holotype in OSU.
- b. *Erebia youngi youngi*** W. Holland, 1900
 Entomol. News 11(3): 388, no. 21; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 61, fig. 28 ♂ D, 29 ♀ D, 30 ♀ V.
Original Combination: *E[rebia]. youngi*
Type Locality: "mountains between Forty-Mile and Mission Creeks, N. E. Alaska"
Types: Syntypes in CMNH.
- c. *Erebia youngi rileyi*** dos Passos, 1947
 Am. Mus. Novit. (1348): 3-4.
Original Combination: *Erebia youngi rileyi*
Type Locality: "McKinley Park, Alaska"
Types: Holotype in AMNH; figured by Troubridge and Philip (1983), J. Res. Lepid. 21(2): figs. 9 ♂ D, 10 ♂ V, 46c ♂ genitalia.
- 801. *Erebia lafontainei*** Troubridge & Philip, 1983
 J. Res. Lepid. 21(2): 130-133, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V, 35a ♂ V, b ♀ V, 48a-d, ♂ genitalia.
Original Combination: *Erebia lafontainei*
Type Locality: "Yukon: St. Elias Mts., Mt. Decoeli, 1300m"
Types: Holotype in CNC.
 Scott (1986), Butterflies N. Am.: 245-246, no. 121, considered *lafontainei* to be the North American representative of *E. kozhantshikovi* Sheljuzhko, 1925, Entomol. Anz. 5(2): 9-10, no. 3, without justification.
- 802. *Erebia occulta*** Roos & Kimmich, 1983
- a. *Erebia occulta occulta*** Roos & Kimmich, 1983
 Entomol. Z. 93(6): 69-75, figs. 1 ♂ D&V (holotype), fig. 4a ♂ genitalia, fig. 5a ♂ valve.
Original Combination: *Erebia occulta*
Type Locality: "Kanada, Yukon, Dempster Highway km 150"
Types: Holotype in Kimmich, Siepe and Roos collection.
 Korshunov and Gorbunov (1995), Butterflies Asiatic Russia: 128, no. 268, noted that this taxon is a species distinct from *E. anyuica* Kurentsov, 1966, with both taxa occurring in the Far East (Magadan). This situation was detailed by Belik and Zamolodchikov (2002), Nota Lepid.

25(1): 61-78 and further defined by Dubatolov [2003], Euroasian Entomol. J. 1(2): 143-146.

= *phellea* Troubridge & Philip, 1983

J. Res. Lepid. 21(2): 118-123, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V, 29 ♂ V, 30 ♀ V, 31 ♂ V, 37a ♂ V, b ♀ V, 50a-d ♂ genitalia, 51a-c ♂ genitalia (c holotype), 52-55 ♂ valvae.

Original Combination: *Erebia phellea*

Type Locality: "Alaska: Seward Peninsula, km 66-68 Council Rd., 9-11 km NNE of Solomon (64.63N, 164.37W), 60-80 m"

Types: Holotype in USNM.

pluto group B. Warren, 1936
Monogr. Erebia: 247.

803. *Erebia callias* W. H. Edwards, 1871

a. *Erebia callias callias* W. H. Edwards, 1871

Trans. Am. Entomol. Soc. 3(3/4): 266, 274, no. 15.

Original Combination: *Erebia Callias*

Type Locality: "Colorado"; suggested to be "Mosquito Pass" and probably "Mt. Elbert and LaPlata Peak just to the south of it" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 161; further defined as "[Mosquito Pass, Park Co.]" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 199.

Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 408, fig. 33 ♂ D&V.

= ‡"sinocho" Scott, 1981
Papilio (n.s.) 1: 3.

Original Combination: *Erebia callias* form *sinocho*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

= ‡"brucei" Scott, 1986
Butterflies N. Am.: 246, no. 123.

Original Combination: [*Erebia callias*] form *brucei*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*. This is a case of Scott proposing a "form" name to correspond with an already named "form" of another species.

Subtribe **Satyrina** Boisduval, [1833] (1820)

Genus **Neominois** Scudder, 1875

Bull. Buffalo Soc. Nat. Sci. 2(4): 237, 241, no. 2. Type-species: *Satyrus ridingsii* W. H. Edwards, 1865, Proc. Entomol. Soc. Philad. 4(1): 201-202, by original designation.

804. *Neominois ridingsii* (W. H. Edwards, 1865)

a. *Neominois ridingsii minimus* Austin, 1986

Bull. Allyn Mus. (107): 14-16, figs. 4a D, 4b V (holotype bottom left).

Original Combination: *Neominois ridingsii minimus*

Type Locality: "Canada: Sakatchewan: Moose Jaw, north side of city, 50 24' N, 105 30' W"

Types: Holotype in MGCL.

b. *Neominois ridingsii wyomingo* (Scott, 1998)

Papilio (n.s.) 11: 1-2, fig. 1 ♂ D (holotype), 2 ♀ D.

Original Combination: *Hipparchia (Neominois) ridingsii wyomingo*

Type Locality: "6 miles WNW Midwest, along I-25, Natrona Co. Wyo." [Wyoming]

Types: Holotype in BMNH.

- c. **Neominois ridingsii ridingsii** (W. H. Edwards, 1865)
Proc. Entomol. Soc. Philad. 4(1): 201-201, no. 2; figured by W. H. Edwards (1893), Butterflies N. Am. 3(14): pl. Neominois 1, figs. 1 ♂ D, 2 ♂ V, 3 ♂ D, 4 ♂ V, 5 ♀ D, 6 ♀ V.

Original Combination: *Satyrus Ridingsii*

Type Locality: "Burlington, Boulder Co., Colorado Territory" [now Longmont]; neotype from "Loveland, Colo." [Larimer County, Colorado]

Types: Neotype in MGCL, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 357, fig. 10 ♀ D&V.

- d. **Neominois ridingsii curicata** M Fisher, J. Scott & Garhart, 2008

Papilio (n.s.) 18: 21-22, pl 1, third row left ♂ D, third row center ♂ V (holotype), fourth row right ♀ D, second row left ♂ D&V, second row center ♂ D&V, second row right ♀ V.

Original Combination: *Neominois ridingsii coloalbiterra*

Type Locality: "Colorado: Gunnison Co., Bid Mesa, 1 mi. S. hwy 50 off CR 31 and SR 149, 7800 ft."

Types: Holotype in CSUC.

- e. **Neominois ridingsii coloalbiterra** Garhart & M. Fisher, 2008

Papilio (n.s.) 18: 15-16, pl 1, top row left ♂ D, top row center ♂ V (holotype), fourth row right ♀ D, fourth row center ♀ V.

Original Combination: *Neominois ridingsii coloalbiterra*

Type Locality: "Colorado: Garfield Co., CR 215, Parachute Creek, approx. 8 miles north of Parachute, Roan Cliffs, 6000 ft."

Types: Holotype in CSUC.

- f. **Neominois ridingsii neomexicanus** Austin, 1986
Bull. Allyn Mus. (107): 16-19, figs. 5a D, 5b V (holotype top left).

Original Combination: *Neominois ridingsii neomexicanus*

Type Locality: "New Mexico: Cibola County; Cibola National Forest, Zuni Mountains, Bluewater Canyon, 7800"

Types: Holotype in MGCL.

- g. **Neominois ridingsii stretchii** (W. H. Edwards, 1870)
Trans. Am. Entomol. Soc. 3(2): 189, 192-193, no. 6.

Original Combination: *Chionobas Stretchii*

Type Locality: "Nevada"; neotype from "Mt. Jefferson. Nye Co., Nevada."

Types: Types destroyed in the 1906 San Francisco earthquake and fire; neotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 358-359, fig. 11 ♂ D&V. Burdick (1942), Can. Entomol. 74(11): 205, designated "neotypes." This designation was not in accordance with Code Articles 75.2 and 75.3.

= *dionysus* Scudder, 1878

Bull. U. S. Geol. Geogr. Surv. Terr. 4(1)(10): 254.

Original Combination: *Neominois dionysus*

Type Locality: "Juniper Mountains...Mount Trumbull"; defined as "the wooded portion of Hurricane Ridge east of the L. A. Iverson Ranch about 5 miles north of Trumbull P. O., Mohave Co. Arizona" by F. Brown (1967), J. Lepid. Soc. 21(2): 133-134.

Types: Syntypes (#1624) in MCZ.

= *ashtaroth* (Strecker, [1878])

Lepid. Rhop. Het. (14): 129.

Original Combination: *Satyrys Ashtaroth*

Type Locality: "Arizona"

Types: Holotype in FMNH.

h. *Neominois ridingsii pallidus* Austin, 1986

Bull. Allyn Mus. (107): 10-14, figs. 3a D, 3b V (holotype top left).

Original Combination: *Neominois ridingsii pallidus*

Type Locality: "Nevada: Mineral County; Alkali Valley, Larkin Dry Lake Road, 4.8 road miles north of Nevada State Route 359 (formerly State Route 31), 7000', R28E, T4N, S12 on Aurora Nev.-Calif., 15' quadrangle. The area is a sandy flat valley"

Types: Holotype in MGCL.

Genus *Oeneis* Hübner, [1819]

Verz. bekannt. Schmett. (4): 58. Type-species: *Papilio norna* Thunberg, 1791, Ins. Suec. (2): 36-37, pl. 2, fig. 11, by designation of Butler (1868), Entomol. Mon. Mag. 4(45): 196.

Subgenus *Oeneis* Hübner, [1819]

= *Chionobas* Boisduval, [1833]

Icon. Hist. Lépid. Europ. 1(18): 182. Type-species: *Papilio aello* Hübner, [1804], Samml. europ. Schmett. 1: pl. 102, figs. 519, 520, 521 (= *Papilio glacialis* Moll, 1785, in: Schrank and Moll, Naturh. Briefe Oesterreich 1: 102; synonym), by designation of Blanchard (1840), in: Castelnau, Hist. Nat. Ins. 3: 457.

polixenes group Gorbunov, 2001
Butterflies Russia Class.: 227, 234.

805. *Oeneis philipi* Troubridge, 1988

Can. Entomol. 120(7): 684-686, figs. 1A ♂ D, 1B ♂ V (holotype); 1C ♀ D, 2D, ♀ D, 9D-F (ovum micropyle), figs. 12, 13A larval head capsules, fig. 14A, 14B ♂ genitalia.

Original Combination: *Oeneis philipi*

Type Locality: "Canada, Yukon Territory, km 1 Dempster Highway at Klondike River, 460 m"

Types: Holotype in CNC.

Lafontaine (1998), in: Layberry *et al.*, Butterflies Can.: 236, suggested that the North American taxon *philipi* is a synonym of *O. rosovi* Kurentsov, 1970, Butterflies Far East USSR: 49, key, figure 42(1), 50, fig. 44(6) ♂ genitalia, 73. However, since there are two syntypes of that taxon extant, and V. Lukhtanov (1989), Vestnik Zool. 1989(2): 33-34, considered them to represent two different species, I defer from accepting this synonymy until a lectotype has been designated.

‡"lafontainei" Kral, 1987

News Lepid. Soc. 1987(6): 86.

Original Combination: *Oeneis polixenes yukonensis* form "lafontainei"

This name was given in a sales advertisement;
a *nomen nudum*.

806. **Oeneis polixenes** (Fabricius, 1775)

a. **Oeneis polixenes katahdin** (Newcomb, 1901)

Entomol. News 12(7): 206; (8): 225-231, pl. 8, 2 ♂ D, 1 ♂ V, 2 ♀ D, 1 ♀ V.

Original Combination: *Chionobas katahdin*

Type Locality: "Mt. Katahdin"; further defined by Newcomb (1901), Entomol. News 12(8): 226, as "Mt. Katahdin, Maine, at an elevation of 4250 to 5000 ft. above the sea-level." [Piscataquis County, Maine]

Types: Lectotype (#7783) in ANSP, designated by Fox (1939), Entomol. News 50(8): 213-214; paralectotypes figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 62, figs. 19 ♂ D, 20 ♀ D.

b. **Oeneis polixenes polixenes** (Fabricius, 1775)

Syst. Entomol.: 484, no. 180.

Original

Combination: *P[apilio]. D[anaus]. F[estivus]. Polixenes*

Type Locality: "America boreali"; suggested to be "Labrador" by Troubridge and Parshall (1988), Can.

Entomol. 120(7): 679; defined as "Chateau Bay, Labrador coast" by Pelham (2008), J. Res. Lepid. 40: 418, based on Lysaght (1971), J. Banks Newfoundland Labrador: 120-155. [Newfoundland and Labrador]

Types: Holotype (#5035) in BMNH.

= *oeno* (Boisduval, [1834])

Icon. Hist. Lépid. Europ. (20): 195-196, no. 7, pl. 39, figs. 4 ♂ D, 5 ♀ D, 6 ♀ V.

Original Combination: *Chionobas Oeno*

Type Locality: "dans la Laponie russe," a single female "du nord de la Sibérie" (from Escholtz), and two specimens "au Labrador" (from Sommer). The lectotype is from "Labrador." [Newfoundland and Labrador]

Types: Lectotype is the male (from Labrador) figured by Boisduval, designated by V. Lukhtanov and Eitschberger (2001), Butterflies World, Suppl. 4: 11, 9d, note 1.

c. **Oeneis polixenes subhyalina** (J. Curtis, 1835)

In: Ross, Voy. Search Northwest Pass., Appendix: lxviii, no. 13.

Original Combination: [*Hipparchia*] *Subhyalina*

Type Locality: "Arctic Regions"; determined from itineraries in vol. 1 and a copy of a letter from John Ross in vol. 2, Addenda: 732-735, to be the area bounded by 69.30°-70.9° N Lat. and 91.52°-93.0° W Long, in the vicinity of the isthmus of Boothia Peninsula, named by the expedition. [Kitikmeot-Keewatin regions, Nunavut]

Types: Holotype in USNM; figured by Howe (1975), Butterflies N. America: pl. 7, figs. 13 ♂ D&V.

= *peartiae* (W. H. Edwards, 1897)

Butterflies N. Am. 3(17): [407-408], pl. Chionobas 14, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.

Original Combination: *Chionobas Peartiae*

Type Locality: “Winter Cove, Cambridge Bay, Victoria Land, lat. 69°, long. 106°” [[Kitikmeot, Nunavut]

Types: Holotype in CMNH; figured by W. Holland (1931), *Butterfly Book* (rev. ed.): pl. 62, fig. 21 ♂ D, and F. Brown (1964), *Trans. Am. Entomol. Soc.* 90(4): fig. 29 ♂ D&V.

N. Riley and Gabriel (1924), *Cat. Type Spec. Lepid. Rhop Brit. Mus.* 1: 44, listed three syntypes (#3821 ♀ #3822 ♀ #3823 ♂); #3823 is a “pseudotype”, the others are paratypes. See F. Brown (1964), *Trans. Am. Entomol. Soc.* 90(4): 400.

- d. **Oeneis polixenes beringianus** Kurentsov, 1970
Butterflies Far East USSR: 49, fig. 41(1) ♂ genitalia, 68, fig. 68(1) map, 73.

Original

Combination: *O[eneis]. p[olixenes]. beringianus*

Type Locality: “in montane tundra of the Chukotka Peninsula” [Magadan Oblast, Chukotka Autonomous Okrug, Russia]

Types: One syntype in the DSM from “E. Chukotka, Chaplina village, Hot Springs landmark”; 16 other syntypes in the IPBV, registered by Azarova (1986), *Syst. Ecol. Lepid. Far East USSR*: 124, no. 18; a lectotype may be selected from any of these.

Species-genus gender conformation is *beringiana*.

= *tschukotkensis* Kurentsov, 1970

Butterflies Far East USSR: 66, fig. 64(2) range map 74, fig. 39(5) ♂ genitalia (as *simulans*).

Original Combination: *Oeneis simulans tschukotkensis*

Type Locality: “montane tundra of Chukotka (Chaplina Springs)” [Magadan Oblast, Chukotka Autonomous Okrug, Russia]

Types: Syntypes in the IPBV, registered by Azarova (1986), *Syst. Ecol. Lepid. Far East USSR*: 124, no. 21.

= *luteus* Troubridge & Parshall, 1988

Can. Entomol. 120(7): 682-683, figs. 7A ♂ D, 7B ♂ V, 7C ♀ D, 7D ♀ V.

Original Combination: *Oeneis polixenes luteus*

Type Locality: “Canada, British Columbia, Pink Mountain”

Types: Holotype in CNC.

This synonymy follows Layberry, *et al.* (1998), *Butterflies Can.*: 235, and personal communications with Troubridge.

- e. **Oeneis polixenes woodi** Troubridge & Parshall, 1988
Can. Entomol. 120(7): 683-684, figs. 8A ♂ D, 8B ♂ V, 8C ♀ D, 8D ♀ V.

Original Combination: *Oeneis polixenes woodi*

Type Locality: “Canada, Yukon Territory, Herschel Island”

Types: Holotype in CNC.

- f. **Oeneis polixenes yukonensis** Gibson, 1920
Rept. Can. Arctic Exped. 3(i): 15i-16i, pl. 1, fig. 8 ♂ genitalia, pl. 2, fig. 9 ♂ V (holotype), 10 ♀ D; pl. 4, fig. 3 ♂ D.

Original Combination: *Oeneis brucei* var. *yukonensis*

Type Locality: "Klutlan glacier, Yukon Territory, elevation 8,200 feet"

Types: Holotype (#836) in CNC.

- g. **Oeneis polixenes brucei** (W. H. Edwards, 1891)
Can. Entomol. 23(2): 33; figured by W. H. Edwards (1892), Butterflies N. Am. 3(13): pl. Chionobas 6, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.

Original Combination: *Chionobas Brucei*

Type Locality: "Colorado"; defined as "Vicinity of Bullion and Hayden Mountains in Hall Valley, Park Co., Colorado; 12,000 feet above sea level and higher" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 395-397.

Types: Lectotype in CMNH, designated by F. M. Brown, 1964, Trans. amer. ent. Soc. 90(4): 400-401, fig. 28 ♂ D&V.

Troubridge and Parshall (1988), Can. Entomol. 120(7): 683, suggested that *brucei*, *yukonensis* and *woodi* may together represent a species-level taxon.

- *807. **Oeneis jutta** (Hübner, [1806])
Samml. europ. Schmett. 1: pl. 120, figs. 614 ♀ D, 615 ♀ V; 25, no. 16.

Original Combination: [*Papilio*] *Jutta*

Type Locality: "Lapland", probably in error. [Lapland, Norway and Sweden]

Types: Type(s) probably lost.

Various Palaearctic "forms" and "aberrations" are not listed in this synonymy.

= *timanica* Sedykh, 1977

Geogr. Aspect. Conserv. Flora Faun. NE Europ. USSR: 103-104, no. 76.

Original Combination: *Oeneis jutta timanica*

Type Locality: "environs of Ukhta" [Komi Autonomous Republic, Russia]

Types: Syntypes in the ZIN.

- a. **Oeneis jutta balder** (Guérin-Méneville, [1832])
Icones Règne Anim. Cuvier 2(18): pl. 80, figs. 1 ♂ D, 1a ♂ V, 1b head, 1c antenna, 1d club of antenna [1832]; 3: 487 [1844].

Original Combination: *Satyrus Balder*

Type Locality: "Cap-Nord" in error. [Finmark, Norway]
Defined as "Nain, Labrador" by Pelham (2008), J. Res. Lepid. 40: 419. [Newfoundland and Labrador]

Types: Possible syntype in USNM.

Guérin-Méneville described this taxon from Boisduval's collection. Boisduval [1834], Icon. Hist. Lépid. Europ. (19): 189-190, no. 4; (20): pl. 39, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, redescribed this taxon, giving the type locality as "au Cap-Nord, au Groenland et en Island...Nayn, dans l'Amerique hyperboréennes." Since no populations of *O. jutta* are known to occur in northern Lapland, Greenland or Iceland, the type locality is defined as above.

= *balderi* Geyer, 1837

In: Hübner, Zutr. Samml. exot. Schmett. 5: pl. [169], figs. 981 ♂ D, 982 ♂ V [1836]; 43, no. 491 (1837, name given).

Original Combination: *Eumenis Balderi*

Type Locality: "Labrador" [Newfoundland and Labrador]

Types: Location of type(s) not known, probably lost.

There is nothing in the original description indicating that this is a misspelling or emendation of *Satyrus balder* Guérin-Ménéville, [1832]. It is retained as an available name.

- b. ***Oeneis jutta terraenovae*** dos Passos, 1935 (emended)
Can. Entomol. 67(4): 84-85.
Original Combination: *Oeneis jutta terrae-novae*
Type Locality: "Doyles Station, Newfoundland"
[Newfoundland and Labrador]
Types: Holotype in AMNH.
- c. ***Oeneis jutta ascerta*** Masters & Sorensen, 1968
Entomol. News 79(3): 80-82, figs. 1 ♂ genitalia, 2 top row left ♂ D&V (holotype), right D&V.
Original Combination: *Oeneis jutta ascerta*
Type Locality: "West White Pine Truck Trail, Solana State Forest, Aitkin County, Minnesota"
Types: Holotype in CMNH.
- d. ***Oeneis jutta ridingiana*** F. Chermock & R. Chermock, 1940
Can. Entomol. 72(4): 82.
Original Combination: *Oeneis jutta ridingiana*
Type Locality: "Riding Mountains, Manitoba"
Types: Holotype in AMNH.
- e. ***Oeneis jutta harperi*** dos Passos, [1977]
J. Res. Lepid. 15(4): 213.
Original Combination: *Oeneis jutta harperi*
Type Locality: "Gillam, Manitoba"
Types: Holotype in MGCL.
Name offered to validate *Oeneis jutta harperi* Wyatt, 1965, Z. wien. entomol. Ges. 50[76](5): 70-71, where it is a *nomen nudum*. Masters (1969), Bull. Assn. Minn. Entomol. 3(2): 23-24, tried to do the same thing, but listed the name in synonymy.
- f. ***Oeneis jutta leussleri*** Bryant, 1935
Bull. Brooklyn Entomol. Soc. 30(3): 115, no. 11.
Original Combination: *Oeneis jutta leussleri*
Type Locality: "Base of Black Mountain" as stated by Bryant (1935), Bull. Brooklyn Entomol. Soc. 30(1): 7, 8 and "Base Camp" as stated by Leussler and Bryant (1935), Bull. Brooklyn Entomol. Soc. 30(2): 46. This was interpreted to be "Thirty miles southwest of Aklavik and immediately west of the Mackenzie Delta...area immediately adjacent to the escarpment" by Pelham (2008), J. Res. Lepid. 40: 420. [Northwest Territories]
Types: Holotype in AMNH or OSU.
- g. ***Oeneis jutta alaskensis*** W. Holland, 1900
Entomol. News 11(3): 389, no. 23; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 62, figs. 10 ♂ D, 11 ♀ D.
Original Combination: *O[eneis]. jutta* var. *alaskensis*
Type Locality: "mountains between Forty-Mile and Mission Creeks, N. E. Alaska...American Creek, Alaska"
Types: Syntypes in CMNH; figured by Masters and Sorensen (1968), Entomol. News 79(3): fig. 2 third row, third from left ♂ D.
- h. ***Oeneis jutta chermocki*** Wyatt, 1965
Z. wien. entomol. Ges. 50[76](5): 69-70, pl. 8, figs. 3 ♂ D, 3a ♂ V (holotype); 4 ♀ D, 4a ♀ V.

- Original Combination:** *Oeneis jutta chermocki*
Type Locality: "Banff, Alberta, Kanada, 1360 m"
Types: Holotype in LNKD.
- i. ***Oeneis jutta reducta*** McDunnough, 1929
 Can. Entomol. 61(5): 105.
Original Combination: *Oeneis jutta reducta*
Type Locality: "Upper Gallatin Canyon, Mont." [Gallatin County, Montana]
Types: Holotype (#2955) in CNC.
808. ***Oeneis melissa*** (Fabricius, 1775)
- a. ***Oeneis melissa semidea*** (Say, 1828)
 Am. Entomol. 3: pl. 50, 3 unnumbered pages.
Original Combination: *Hipparchia Semidea*
Type Locality: "bald summits of the White Mountains of New Hampshire " [Coos County]
Types: Lectotype (#7000) in ANSP (Peale collection), designated by Fox (1939), Entomol. News 50(8): 215; figured by F. Brown (1974), Proc. Acad. Nat. Sci. Philad. 126(5): fig. 1 ♀ D&V.
 = ‡"nigra" (W. H. Edwards, 1894)
 Butterflies N. Am. 3(15): [350], pl. Chionobas 9, fig. 8 ♂ VHW.
Original Combination: [*Chionobas Semidea*]
 var. *Nigra*
Type Locality: "New Hampshire"; further defined as "Mount Washington, N. H." by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 402. [Coos County, New Hampshire]
Types: "Lectotype" in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 402, fig. 30 ♂ D&V.
 The text clearly indicates that this taxon was described as an individual variant.
 ‡"eritiosa" (Boisduval, [1834])
 Icon. Hist. Lépid. 1(20): 197, under the discussion of *Chionobas also*.
Original Combination: [*Chionobas*] *Eritiosa*
Type Locality: "dans les montagnes calcaires de New-Hampshire" [White Mountains, New Hampshire]
Types: Location of "type(s)" not known, possibly never existed; a *nomen nudum*.
- b. ***Oeneis melissa melissa*** (Fabricius, 1775)
 Syst. Entomol.: 513, no. 298.
Original
Combination: *P[apilio]. N[ymphalis]. P[halerata]. Melissa*
 a
Type Locality: "insula Terre nueve Americae"; defined as "Chateau Bay, Labrador coast" by Pelham (2008), J. Res. Lepid. 40: 421, based on Lysaght (1971), J. Banks Newfoundland Labrador: 120-155. Fabricius cited "Mus. Banks." Banks visited St. John's and Croque on the east side of the northern peninsula, and Chateau Bay, on the Labrador coast. *Oeneis melissa* is not currently known to occur on Newfoundland Island. Neotype from "[Canada], Labrador, ? Tanke." [Newfoundland and Labrador]
Types: Type(s) apparently lost; neotype in MGCL, designated by V. Lukhtanov and Eitschberger (2002), Butterflies World, Suppl. 4: 4, 1d; figured by V.

- Lukhtanov and Eitschberger (2000), Butterflies World Part. 11: pl. 1, fig. 10 ♂ D, pl. 2, fig. 10 ♂ V.
- c. **Oeneis melissa semplei** W. Holland, 1930
Ann. Carnegie Mus. 20(1): 50-51; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 63, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V.
Original Combination: *Oeneis semplei*
Type Locality: "western coast of Labrador, at the point where the Little Cape Jones River discharges into Hudson Bay" [Nord-du-Québec, Quebec]
Types: Syntypes in CMNH.
- d. **Oeneis melissa assimilis** Butler, 1868
Cat. Sat. Brit. Mus.: 163, no. 13, pl. 2, fig. 10 ♀ V (holotype).
Original Combination: *Oeneis Assimilis*
Type Locality: "Repulse Bay" [Kivalliq Region, Nunavut, Canada]
Types: Holotype (♀ #3824) in BMNH.
= *arctica* Gibson, 1920
Rept. Can. Arctic Exped. 3(i): 13i, pl. 1, fig. 4 ♂ genitalia, pl. 2, fig. 4 ♂ V, pl. 4, fig. 4 ♂ D (holotype); figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 72, fig. 5 ♂ V.
Original Combination: *Oeneis semidea* var. *arctica*
Type Locality: "Bernard Harbour, Northwest Territories" [Nunavut]
Types: Holotype (#835) in CNC.
= *simulans* Gibson, 1920
Rept. Can. Arctic Exped. 3(i): 14i, pl. 1, fig. 7 ♂ genitalia, pl. 2, fig. 5 ♂ V (holotype); figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 75, fig. 19 ♂ V.
Original Combination: *Oeneis simulans*
Type Locality: "Bernard Harbour, Northwest Territories" [Nunavut]
Types: Holotype (#854) in CNC.
- e. **Oeneis melissa gibsoni** W. Holland, 1930
Ann. Carnegie Mus. 20: 51; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 63, figs. 9 ♀ V, 10 ♂ V.
Original Combination: *Oeneis gibsoni*
Type Locality: "in the Kuskokwim Valley"; suggested to be "Bethel, about 20 miles up the Kuskokwim River at the inland edge of the coastal tundra" by dos Passos (1949), Am. Mus. Novit. (1389): 11-12. [Alaska]
Types: Syntypes in CMNH.
- f. **Oeneis melissa atlinensis** C. Guppy & J. Shepard, 2001
Butterflies B. C.: 348-349, figs. ♂ D&V (holotype), ♀ D&V.
Original Combination: *Oeneis melissa atlinensis*
Type Locality: "BC, Atlin, Mt. Vaughan, el. 5,200+ ft." [British Columbia]
Types: Holotype in BCPM.
- g. **Oeneis melissa beanii** Elwes & J. Edwards, 1893
Trans. Entomol. Soc. Lond. (4)1893(4): 464, 476-477; 481, key; pl. 15, fig. 8 valve, fig. 11 hind tibia ♀.
Original Combination: [*Oeneis*] *Beanii*

Type Locality: "Laggan...at 8-9000 ft. elevation"; defined as "vicinity of...Lake Louise, Banff National Park, Alberta" by Kondla (1996), Alberta Naturalist 26(2): 40.

Types: Holotype (#3825) in BMNH.

- h. **Oeneis melissa lucilla** W. Barnes & McDunnough, 1918
Contr. Nat. Hist. Lepid. N. Am. 4(2): 69-70, pl. 11, figs. 16 ♂ D (holotype), 17 ♂ V, 18 ♂ D, pl. 25, fig. 5 ♂ genitalia.

Original Combination: *Oeneis lucilla*

Type Locality: "Hall Valley, Colo." [Park County, Colorado]

Types: Holotype in USNM; figured by Howe (1975), Butterflies N. Am.: pl. 6, fig. 12 ♂ D&V.

hora group Gorbunov, 2001
Butterflies Russia Class.: 226.

- *809. **Oeneis alpina** Kurentsov, 1970
Butterflies Far East USSR: 49, fig. 42(2) ♂ D&V (holotype); 50, key, fig. 44(1) ♂ genitalia; 74.
Original Combination: *Oeneis alpina*
Type Locality: "balds of the Omsukchan range (an eastern spur of Kolymsk range)" [Magadan Oblast, Chukotka Autonomous Okrug, Russia]
Types: Holotype in the IPBV, registered by Azarova (1986), Syst. Ecol. Lepid. Far East USSR: 124, no. 20.
= *ostracon* Korb, 1996
Vestn. Zool. 1996(4/5): 101.
Original Combination: *Oeneis excubitor ostracon*
Type Locality: "Magadan oblast, Palatka" [Magadan Oblast, Chukotka Autonomous Okrug, Russia]
Types: Holotype in ZIN.
Gorbunov (2001), Butterflies Russia Class.: 237, noted that this taxon might be a synonym of *O. m. magna* Graeser, 1888. It is placed here provisionally until this possibility is investigated.
a. **Oeneis alpina excubitor** Troubridge, Philip, Scott & J. Shepard, 1982
Can. Entomol. 114(10): 881-882, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♂ D, 4 ♂ D, 5 ♀ D, 6 ♀ V, 7 ♀ D, 8 ♀ D, 9 ♂ genitalia.
Original Combination: *Oeneis excubitor*
Type Locality: "Yukon: Mt. Chambers, Ogilvie Mts., hilltop 4 km E., 1400 m"
Types: Holotype in CNC.

bore group Gorbunov, 2001
Butterflies Russia Class.: 226.

- *810. **Oeneis bore** (Esper, 1789)
Die Schmett. 1(suppl.)(1)(3/4): 37-38, pl. 100, fig. 1 (1789); [7]: 76-79, pl. 108 (cont. 63), fig. 1 ♀ D&V [1798].
Original Combination: *Papilio (Dan[aus]. Cand[idus].) Bore*
Type Locality: "Lapland"
Types: Type(s) probably lost.
The determination of Esper's publication dates by Heppner (1981), Arch. Nat. Hist. 10(2): 251-254, gave priority to Esper's description over that of Schneider (1792), Neu. Mag. Liebhaber Entomol. 4: 415, 445; 5: 585 (1793), which is often listed.
Ferris *et al.* (1983), Can. Entomol. 115(7): 838, and Scott

(1986), Butterflies N. Am.: 249-250, no. 130, suggested that *taygete* is conspecific with *bore*.

= *†norna* (Quensel, 1791)

K. Vetensk. Acad. Nya Handl. 1791, 12(3): 274, no. 4, pl. 10, figs. 1 ♂ D, 2 ♂ V

Original

Combination: *P[apilio]: M[ymphalis]: G[emmatas]. N orna*

Type Locality: "Lapponiæ borealioris" [Lappi, Finland]

Types: Location of type(s) not known.

Preoccupied by *Papilio norna* Thunberg, 1791, Ins. Svec. (2): 36, pl. [5], fig. 11 (10 Dec 1791). (Code Article 58.1).

= *fortunatus* (Fabricius, 1793)

Entomol. Syst. 3(1): 214, no. 670.

Original Combination: *P[apilio]. S[atyr]. Fortunatus*

Type Locality: "Lapponia" [Lapland, Norway and Sweden]

Types: Syntypes in ZMUC.

E. Doubleday (1844), List Spec. Lepid. Ins. Coll. Brit. Mus. 1: 123, was the first to consider this name a synonym of *O. bore*.

= *crambis* (Freyer, [1844])

Neuer Beitr. Schmett. 5(74): 99-100, no. 783, pl. 440, figs. 3 ♂ D&V, 4 ♀ D&V.

Original Combination: *Hipparchia Crambis*

Type Locality: "Lappland" [Lapland, Norway and Sweden]

Types: There may be syntypes in BMNH or ZSMC, or they may be lost.

This name has been employed in different ways in the past, but it is clear from the figures, type locality, description, and Freyer's comparison with *bore* that this name belongs here.

a. **Oeneis bore taygete** Geyer, [1830]

In: Hübner, Samml. Exot. Schmett. 3: [60-61], [pl. 17], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

Original Combination: *Oeneis Taygete*

Type Locality: "Labrador"; neotype from from "Hopedale, Labrador, latitude 53°N." [Newfoundland and Labrador]

Types: Type(s) probably lost; neotype in CMNH, designated by dos Passos (1949), Am. Mus. Novit. (1399): 6, figs. 1 ♂ D, 2 ♂ V.

= *bootes* (Boisduval, [1834])

Icon. Hist. Lépid. 1(19): 191-192, no. 5, pl. 37, figs. 4 ♂ D, 5 ♀ D, 6 ♀ V.

Original Combination: *Chionobas Bootes*

Type Locality: "Cap-

Nord...Kamtschatka...Groenland et au Labrador"; defined as "Hopedale, Labrador" by dos Passos (1949), Am. Mus. Nov. No. 1399: 7.

Types: Type(s) probably lost; the lectotype is the male specimen represented by Boisduval's figure 4, designated by dos Passos (1949), Am. Mus. Novit. (1399): 7.

dos Passos (1949), Am. Mus. Novit. (1399): 4, figs. 3 ♂ D, 4 ♂ V, figured a probable syntype from the

USNM. This specimen, without locality label, differs from the figures given by Boisduval. The original localities given by Boisduval are diverse (no *Oeneis* are known to occur in Greenland), and dos Passos thought it wise to designate the “type” as the specimen represented by Boisduval's figure, since it closely resembles specimens from Labrador.

- b. *Oeneis bore gaspeensis*** dos Passos, 1949
Am. Mus. Novit. (1399): 8-12, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.
Original Combination: *Oeneis taygete gaspeensis*
Type Locality: “Mt. Albert...at about 3000 feet” [Gaspé National Park, Quebec]
Types: Holotype in AMNH.
 - c. *Oeneis bore hanburyi*** Watkins, 1928
Ann. Mag. Nat. Hist. (10)1(5): 617.
Original Combination: *Oeneis bore hanburyi*
Type Locality: “on the Canadian Arctic coast about Coronation Gulf...Grays Bay” [Kitikmeot Region, Nunavut]
Types: Holotype in BMNH.
 - d. *Oeneis bore mckinleyensis*** dos Passos, 1949
Am. Mus. Novit. (1389): 2-8, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5-8 ♂, 9-10 ♀.
Original Combination: *Oeneis mckinleyensis*
Type Locality: “McKinley Park, Alaska” [Denali National Park]
Types: Holotype in AMNH.
Spelled “mackinleyensis” by dos Passos (1958), Proc. Int. Congr. Entomol. 10(Montreal 1956)1: 674; an unjustified emendation.
 - e. *Oeneis bore fordii*** dos Passos, 1949
Am. Mus. Novit. (1399): 12-16, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.
Original Combination: *Oeneis taygete fordii*
Type Locality: “Kuskoquim River, Alaska”; suggested to be “Bethel, about 20 miles up the Kuskoquim River at the inland edge of the coastal tundra” by dos Passos (1949), Am. Mus. Novit. (1389): 11-12.
Types: Holotype in CMNH.
 - f. *Oeneis bore edwardsi*** dos Passos, 1949
Am. Mus. Novit. (1399): 16-20, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.
Original Combination: *Oeneis taygete edwardsi*
Type Locality: “San Juan Mountains, Hinsdale Co., Colorado”; further defined as “Hinsdale Co.: Rio Grande Pyramid, 12,000 ft.” by F. M. Brown (1954), Proc. Denver Mus. Nat. Hist. 3: 28.
Types: Holotype in AMNH.
 - 811. *Oeneis chryxus*** (E. Doubleday, [1849])
 - a. *Oeneis chryxus strigulosa*** McDunnough, 1934
Can. Entomol. 66(4): 86.
Original Combination: *Oeneis chryxus strigulosa*
Type Locality: “Gull Lake, (Raggedy Cr.) near Minden, Ont.” [Haliburton County, Ontario]
Types: Holotype (#3732) in CNC.
 - b. *Oeneis chryxus calais*** (Scudder, 1865)
Proc. Entomol. Soc. Philad. 5(2): 7-10, no. 3, fig.

Original Combination: *Chionobas calais*

Type Locality: "Albany River, Hudson's Bay"; corrected to "Rupert House, Hudson's Bay" by W. H. Edwards (1883), Can. Entomol. 15(3): 44, no. 9. A. Clark (1932), Proc. U. S. Nat. Mus. 81(11)(2934): 1-2, corroborated the type locality as stated by W. H. Edwards. [Nord-du-Québec, Quebec, Canada]

Types: Holotype in CMNH; figured by W. H. Edwards (1892), Butterflies N. Am. 3(13): pl. Chionobas 2, figs. 5 ♀ D, 6 ♀ V, and W. Holland (1931), Butterfly Book (rev. ed.): pl. 62, fig. ♀ D.

c. **Oeneis chryxus caryi** Dyar, 1904

Proc. Entomol. Soc. Wash. 6(3): 142.

Original Combination: *Oeneis caryi*

Type Locality: "Smith Landing, Athabasca"; defined as "vicinity of latitude 59° 54'N, longitude 111° 40'W near the west side of the Slave River, Alberta" by Kondla (1995), Alberta Naturalist 25(4): 75. [NE Alberta]

Types: Holotype (#8046) in USNM; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 75, figs. 10 ♂ D, 10a ♂ V, and Howe (1975), Butterflies N. Am.: pl. 8, fig. 6 ♂ D&V.

d. **Oeneis chryxus altacordillera** Scott, 2006

Papilio (n.s.) 12: 14-15, pl. 4 5th row left ♂ D&V

(holotype), 5th row center left ♂ D, 5th row center right ♂ D.

Original Combination: *Oeneis calais altacordillera*

Type Locality: "Colorado: Sangre de Cristo Mts.: Baldy Peak 12,500', Custer Co."

Types: Holotype in BMNH.

e. **Oeneis chryxus chryxus** (E. Doubleday, [1849])

In: Gen. diurn. Lepid. (1): pl. 64, fig. 1 ♂ D [1849]; (2)(43): 383, no. 13 (Westwood, 1851).

Original Combination: *Chionobas Chryxus*

Type Locality: "Rocky Mountains"; defined as "vicinity of Rock Lake, Alberta (53° 27'N, 118° 16'W)" by J. Shepard (1984), Quaest. Entomol. 20(1): 40-41.

Types: Lectotype (#3845) in BMNH, designated by J. Shepard (1984), Quaest. Entomol. 20(1): 42, figs. 5 ♀ D, 6 ♀ V.

f. **Oeneis chryxus socorro** R. Holland, 2010

J. Lepid. Soc. 64(3): 164, figs. 4 ♂ D, 5 ♂ V (holotype), 6 ♀ D, 7 ♀ V.

Original Combination: *Oeneis chryxus socorro*

Type Locality: "Beartrap Campground, ca. 2 mi. W of Mt. Withington, San Mateo Mts., Socorro County, New Mexico"

Types: Holotype in CNC.

g. **Oeneis chryxus valerata** Burdick, 1958

Lepid. News 11(1-3): 23-26, fig. 2 ♂ genitalia, fig. 3 (left row, top to bottom) 1st ♂ D, 2nd ♂ V (holotype); 3rd ♀ D, 4th ♀ V.

Original Combination: *Oeneis chryxus valerata*

Type Locality: "Hurricane Ridge, Clallam Co., Washington"

Types: Holotype in LACM; figured by Howe (1975), Butterflies N. Am.: pl. 8, figs. 4 ♂ D&V.

h. **Oeneis chryxus ivallda** (Mead, 1878)

Can. Entomol. 10(10): 196-198.

Original Combination: *Chionobas Ivallda*

Type Locality: "Summit... Freel's Peak and Tallac Mountain...within a few miles of Lake Tahoe, near the boundary line between California and Nevada" [Placer County, California]

Types: Syntypes in CMNH; figured in Holland, 1898, Butterfly Book: pl. 27, figs. 9 ♂ D, and Holland, 1931, Butterfly Book (rev. ed.): pl. 62, fig. 4 ♀ D.

Ferris (1989), Mem. Lepid. Soc. 3: 60, 98, discussed the wing pigment chemistry of *ivallda* and *chryxus*, and concluded that *ivallda* is conspecific with *chryxus*. Porter and Shapiro [1991], J. Res. Lepid. 28(4): 263-276, presented electrophoretic evidence corroborating this conclusion.

i. **Oeneis chryxus stanislaus** Hovanitz, 1937

Entomol. News 48(8): 228-230.

Original Combination: *Oeneis chryxus stanislaus*

Type Locality: "Deadman Creek, tributary of the Middle Fork Stanislaus River, border of Tuolumne Co. and Alpine Co. California. Elevation 8400 ft." [Sonora Pass, Alpine County]

Types: Holotype in CAS.

812. **Oeneis alberta** Elwes, 1893

a. **Oeneis alberta alberta** Elwes, 1893

Trans. Entomol. Soc. Lond. (4)1893(4): 461, 467-468.

Original Combination: [*Oeneis*] *Alberta*

Type Locality: "near Calgary"; defined as "Fish Creek Provincial Park, about one mile west of the Bow River, Calgary, Alberta" by Kondla (1995), Alberta Naturalist 26(2): 39.

Types: Holotype (#3844) in BMNH.

b. **Oeneis alberta ojibwe** Scott & Kondla, 2006

Papilio (n.s.) 12: 13-14.

Original Combination: *Oeneis alberta ojibwe*

Type Locality: "Pine Ridge, Man." [Manitoba]

Types: Holotype in CNC; figured by Layberry *et al.* (1998), Butterflies Can.: pl. 19, fig. 19 ♂ D&V.

c. **Oeneis alberta oslari** Skinner, 1911

Entomol. News 22(5): 220.

Original Combination: *Oeneis alberta oslari*

Type Locality: "Deer Creek Canyon, Colorado" [S of Morrison, Jefferson County] This is apparently in error; specimens almost certainly came from South Park, Park County as suggested by Pelham (2008), J. Res. Lepid. 40: 424.

Types: Syntype (#7040) in CMNH.

d. **Oeneis alberta capulinensis** F. Brown, 1970

J. N. Y. Entomol. Soc. 78(3): 137-138, fig. 2, 2 ♂ D&V.

Original Combination: *Oeneis alberta capulinensis*

Type Locality: "Outer slope of north rim of the crater, Capulin Mountain, Union County, New Mexico, 8,200 feet above sea level"

Types: Holotype in AMNH.

e. **Oeneis alberta daura** (Strecker, 1894)

Can. Entomol. 26(8): 225.

Original Combination: *Chionobas daura*

Type Locality: "Mt. Graham, Arizona" [Graham County]

- Types:** Holotype in FMNH; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 76, figs. 20 ♀ D, 20a ♀ V.
- 813. *Oeneis nevadensis* (C. Felder & R. Felder, 1867)**
- a. *Oeneis nevadensis gigas* Butler, 1868**
 Cat. Sat. Brit. Mus.: 161-162, no. 6, pl. 2, fig. 2 ♂ V (holotype).
Original Combination: *Oeneis Gigas*
Type Locality: "Vancouver's Island" [British Columbia]
Types: Holotype (#3846) in BMNH.
- b. *Oeneis nevadensis nevadensis* (C. Felder & R. Felder, 1867)**
 Reise Novara Zool. (3): 489-490, no. 845, pl. 69, figs. 4 ♂ D, 5 ♂ V.
Original Combination: *Chionobas Nevadensis*
Type Locality: "California: Sierra Nevada"; defined as "Little Volcano Mountain, ca. 7 air miles southeast of Quincy, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (5): 88.
Types: Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (5): 88. figs. 10 ♂ D, 11 ♂ V.
 This name was listed, but not described, by Behr (1864), Proc. Calif. Acad. Sci. [1]3(11): 163; it is a *nomen nudum*.
 = *californica* (Boisduval, 1869)
 Annls. Soc. Entomol. Belg. 12: 62, no. 60.
Original Combination: *Chionobas californica*
Type Locality: "dans les hautes montagnes à la limite des neiges"; defined as "Little Volcano Mountain, ca. 7 air miles southeast of Quincy, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 34.
Types: Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butterflies (2): 34, figs. 264 ♂ D, 265 ♂ V.
- c. *Oeneis nevadensis iduna* (W. H. Edwards, 1874)**
 Butterflies N. Am. 2(1): [275-277], pl. Chionobas 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Chionobas Iduna*
Type Locality: "Mendocino County" [California]
Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 392, fig. 25 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 62, figs. 6 ♂ V.
- 814. *Oeneis macounii* (W. H. Edwards, 1885)**
 Canadian Entomol. 17(4): 74-75; figured by W. H. Edwards (1893), Butterflies N. Am. 3(14): pl. Chionobas 10, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.
Original Combination: *Chionobas Macounii*
Type Locality: "Lake Nepigon" [Nipigon, Ontario].
Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 390, fig. 24 ♂ D&V.

Subgenus **Protoeneis** Gorbunov, 2001

Butterflies Russia, Class.: 226, 227 key, 228 diagnosis. Type-species: *Chionobas nanna* Ménétriés, 1858, Bull. class. phys. math. Acad. Imp. Sci. St. Petersburg (ser. 2)17(12-14, nos. 396-398): col. 216, no. 15, by original designation.

815. **Oeneis uhleri** (Reakirt, 1866)
- a. **Oeneis uhleri uhleri** (Reakirt, 1866)
 Proc. Entomol. Soc. Philad. 6(1): 143-145.
Original Combination: *Chionobas Uhleri*
Type Locality: "Rocky Mountains, Colorado Terr."; suggested to be "the grassy parts that crown the Front Range west of Denver (Bergen Park, etc.)" by F. Brown (1953), Am. Mus. Novit. (1625): 1; further defined as "vic. Georgetown, Clear Creek Co., Colorado" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 201.
Types: Syntypes in FMNH.
 = ‡"obscura" (W. H. Edwards, 1892)
 Butterflies N. Am. 3(13): [294], pl. Chionobas 3, fig. 5 ♂ D ("holotype").
Original Combination: *Chionobas Uhleri* var. *Obscura*
Type Locality: Not stated; defined as "Clear Creek Canyon, Jefferson Co., Colorado...6,000 ft. above sea level" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 395.
Types: "Holotype" in CMNH; figured by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): fig. 27 ♂ D&V.
 The text clearly indicates that this taxon was described as an individual variant.
- b. **Oeneis uhleri reinthali** F. Brown, 1953
 Am. Mus. Novit. (1625): 21-25, fig. 6D ♂ genitalia, figs. 7G ♂ D (holotype), 7H ♀ D, 8G ♂ V (holotype), 8H ♀ V.
Original Combination: *Oeneis uhleri reinthali*
Type Locality: "near Gothic, Colorado" [Gunnison County]
Types: Holotype in AMNH.
- c. **Oeneis uhleri varuna** (W. H. Edwards, 1882)
 Can. Entomol. 14(1): 2-5; figured by W. H. Edwards (1892), Butterflies N. Am. 3(12): pl. Chionobas 4, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V, 5 ♂ D, 6 ♂ V, 7 ♂ D, and (1897), 3(17): [389-393], pl. Chionobas 13, fig. 1 ♀ V.
Original Combination: *Chionobas Varuna*
Type Locality: "Dacotah Terr....on the plains, elevation about 1,200 feet"
Types: Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 394, fig. 26 ♂ D&V; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 62, figs. 13 ♂ D (lectotype), 14 ♀ D (paralectotype).
 = ‡"dennisi" Gunder, 1927
 Can. Entomol. 59(12): 285-286, no. 17, pl. B, figs. 17 ♂ D, 17b ♂ V ("holotype").
Original Combination: *Oeneis uhleri* race *varuna* tr. f. *dennisi*
Type Locality: "Beulah, Man., Can." [Manitoba]
Types: "Holotype" in CNC.
- d. **Oeneis uhleri cairnesi** Gibson, 1920
 Rept. Can. Arctic Exped. 3(i): 15i, pl. 1, fig. 6 ♂ genitalia; pl. 2, fig. 7 ♂ V (holotype), 8 ♀ V; pl. 4, fig. 6 ♂ D (holotype).
Original Combination: *Oeneis cairnesi*

Type Locality: "White river district, Yukon Territory, lat. 61°55', long. 141°"

Types: Holotype (#834) in CNC; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 75, fig. 20 ♂ V.

= *kluanensis* M. Hassler, 2002

In: Hassler and Feil, Nachrichtenbl. Entomol. Ver. Apollo, n. f. 22(4): 199, figs. 4 ♂ D, 19 ♂ V, 31 ♂ genitalia (holotype); 5 ♂ D, 20 ♂ D, 6 ♂ V, 21 ♂ V.

Original Combination: *Oeneis nanna kluanensis*

Type Locality: "SW-Yukon, NW Burwash Landing, Quill Creek Area, 800-1200m altitude"

Types: Holotype in SMF.

e. ***Oeneis uhleri nahanni*** Dyar, 1904

Proc. Entomol. Soc. Washington 6(3): 142.

Original Combination: *Oeneis nahanni*

Type Locality: "Nahanni Mts., Mackenzie, 2500"; defined as "Lone Mountain (Mount Tha-on-tha), about 62° 11'N, 123° 16'W Nahanni Range, Mackenzie Mountains, Northwest Territories" by Kondla (1995), Blue Jay 53(4): 227.

Types: Holotype (#8047) in USNM; figured by W. Holland (1931), Butterfly Book (rev. ed.): pl. 75, figs. 11 ♂ D, 11a ♂ V.

MUSEUMS – REPOSITORIES (TYPES)

AMNH: American Museum of Natural History, New York, New York, United States
ANIC: Australian National Insect Collection, CSIRO, Canberra City, Canberra, Australian Capital Territory, Australia
ANSP: Academy of Natural Sciences, Philadelphia, Pennsylvania, United States; most of the butterflies went to CMP
BCPM: Royal British Columbia Museum [British Columbia Provincial Museum], Victoria, British Columbia, Canada
BMNH: The Natural History Museum [formerly British Museum (Natural History)], London, England
CAS: California Academy of Sciences, San Francisco, California, United States
CMNH: Carnegie Museum, Pittsburgh, Pennsylvania, United States (most of the ANSP butterflies now in CMNH)
CNC: Canadian National Collection of Insects, Agriculture Canada, Ottawa, Ontario, Canada
CUIC: Cornell University, Ithaca, New York, United States
DEI: Deutsches Entomologisches Institut im ZALF, Müncheberg, Germany
DCM: Dartmouth College Collection, Hanover, New Hampshire, United States
DCMP: Universidade Federal do Paraná, Curitiba, Paraná, Brazil
DMNH: Denver Museum of Natural History, Denver, Colorado, United States
DSM: Darwin State Museum, Moscow, Russia
DZUP: Universidade Federal do Paraná, Museu de Entomologia Pe. Jesus Santiago Moure, Paraná, Curitiba, Brazil
EMAU: Ernst Moritz Arndt Universität; Greifswald; Germany
EMEC: Essig Museum of Entomology, University of California, Berkeley, California United States
FMNH: Field Museum of Natural History, Chicago, Illinois, United States
HMUG: Hunterian Museum, University of Glasgow, Glasgow, Scotland
HNHM: Termesztudományi Múzeum [Hungarian Natural History Museum], Budapest, Hungary
EIHU: Entomological Institute, Hokkaido University, Sapporo, Japan
ICNB: Instituto de Ciencias Naturales, Bogotá, Colombia
IMLA: Fundación e Instituto Miguel Lillo, Universidad nacional de Tucumán, San Miguel de Tucumán, Argentina
INHS: Illinois Natural History Survey, Champaign (Urbana), Illinois, United States
IRSN: Institut Royal des Sciences Naturelles; Brussels, Belgium
IPBV: Institute of Biology and Soil Sciences, Russian Academy of Sciences, Far East Branch, Vladivostok, Russia
IZAC: Academia de Ciencias de Cuba, Instituto de Zoología, Havana, Cuba
LACM: Los Angeles County Museum of Natural History, Los Angeles, California, United States
LEM: Lyman Entomological Museum, McGill University, Ste. Anne de Bellevue, Quebec, Canada
LNKD: Landesammlungen für Naturkunde, Karlsruhe, Germany
LSUK: Linnean Society, London, England
MACN: Museo Argentino de Ciencias Naturales "Bernardino Rivadavia," Buenos Aires, Argentina
MAMU: Macleay Museum, University of Sydney, Sydney, New South Wales, Australia
MCPM: Milwaukee City Public Museum, Milwaukee, Wisconsin, USA
MCSN: Museo Civico di Storia Naturale "Giacomo Doria", Genova, Italy
MCZ: Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts, United States
MGCL: McGuire Center for Lepidoptera and Biodiversity; Gainesville, Florida, United States; including: Allyn Museum of Entomology, Sarasota, Florida Museum of Natural History, Gainesville, University of Florida, Gainesville, Florida State Collection of Arthropods, Florida Department of Agriculture and Consumer Services, Gainesville
MHNG: Muséum d'Histoire Naturelle, Geneva, Switzerland

MHNS: Museo Nacional de Historia Natural, Santiago, Chile
MLPA: Facultad de Ciencias Naturales y Museo, Universidad nacional de La Plata, La Plata, Argentina
MRAC: Musee Royal de l'Afrique Centrale, Tervuren, Belgium
MNHP: Muséum National d'Histoire Naturelle, Paris, France
MNHC: Museo Nacional de Historia Natural, Habana [=Havana], Cuba
MNMS: Museo Nacional de Ciencias Naturales, Madrid, Spain
MSNM: Museo Civico di Storia Naturale, Milano, Italy
MTD: Staatliches Museum für Tierkunde, Dresden, Germany
MUSM: Museo de Historia Natural, Universidad Nacional Mayor de San Marcos, Lima, Peru
MWNH: Staatliches Museum Wiesbaden, Department of Natural Science, Wiesbaden, Germany
NHMB: Naturhistorisches Museum, Basel, Switzerland
NMW: Naturhistorisches Museum, Wien, Austria
NHRS: Naturhistoriska Riksmuseet, Stockholm, Sweden
NMID: National Museum of Ireland, Dublin, Ireland
NVMC: Nevada State Museum, Carson City, Nevada, United States
NYSM: New York State Museum, Albany, New York, United States
OSAC: Oregon State University, Corvallis, Oregon, United States
OSU: Ohio State University, Columbus, Ohio, United States
PMNH: Peabody Museum of Natural History, Yale University, New Haven, Connecticut, United States
RMNH: Nationaal Natuurhistorische Museum ("Naturalis") [Rijksmuseum van Natuurlijke Historie], Leiden, Netherlands
RPM: Reading Public Museum, Reading, Pennsylvania, United States
RSME: National Museums of Scotland, Edinburgh, Scotland
SDMC: San Diego Natural History Museum, San Diego, California, United States
SEMC: Snow Museum of Entomology, University of Kansas, Lawrence, Kansas, United States
SIIS: Staten Island Institute of Arts and Sciences, New York, New York, United States
SMF: Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt-am-Main, Germany
SMNS: Staatliches Museum für Naturkunde, Stuttgart, Germany
SZMN: Biological Institute, Siberian Department, Academy of Sciences; Novosibirsk, Russia
UCMC: University of Colorado, Boulder, Colorado, United States
UMO: University Museum of Natural History, Oxford, United Kingdom
UNAM: Instituto de Biología, Universidad Nacional Autónoma de México, Mexico City, Mexico
UNSM: University of Nebraska State Museum, Lincoln, Nebraska, United States
USNM: National Museum of Natural History [formerly, United States National Museum], Smithsonian Institution, Washington, D. C., United States
UZI: Universitets Zoologiska Institut, Uppsala, Sweden
ZIN: Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia
ZMHB: Museum für Naturkunde der Humboldt Universität Zoologisches Museum, Humboldt Universität, Berlin, Germany
ZMKU: Zoological Museum, Kiev, Ukraine
ZMUC: Zoologisk Museum, Universitets Copenhagen, Copenhagen, Denmark
ZMUH: Zoologische Institut und Zoologisches Museum, Universität von Hamburg, Hamburg, Germany
ZSMC: Zoologische Sammlungen des Bayerischen Staates/Zoologische Staatssammlung, Munich, Germany.

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by Frederick DuCane Godman and Osbert Salvin
Insecta. Lepidoptera-Rhopalocera. Volume II (1887-1901)
by Frederick DuCane Godman and Osbert Salvin and Samuel Hubbard Scudder
Insecta. Lepidoptera-Rhopalocera. Volume III (1879-1901)
by Frederick DuCane Godman and Osbert Salvin
Insecta. Lepidoptera-Heterocera. Volume I (1881-1900)
by Herbert Druce
Insecta. Lepidoptera-Heterocera. Volume II (1891-1900)
by Herbert Druce
Insecta. Lepidoptera-Heterocera. Volume III (1881-1900)
by Herbert Druce
Insecta. Lepidoptera-Heterocera. Volume IV (1909-1915)
by Lord Walsingham.

LISTING

Family PAPILIONIDAE Latreille, [1802], SWALLOWTAILS,

Subfamily Baroniinae Bryk, 1913, Baronia,

Baronia brevicornis brevicornis Salvin, 1893, Baronia, SW Mexico

Baronia brevicornis rufodiscalis J. De la Maza & White, 1987, Baronia, Chiapas

Subfamily Parnassiinae Duponchel, [1835], Parnassians,

Parnassius eversmanni thor Hy. Edwards, 1881, Eversmann's Parnassian, Alaska, YK, W NT, N BC

Parnassius clodius strohbeeni Sternitzky, 1945, Clodius Parnassian, Santa Cruz Mtns, CA; apparently extinct

Parnassius clodius clodius Ménétriés, 1855, Clodius Parnassian, N CA; Marin to Trinity cos.

Parnassius clodius claudianus Stichel, 1907, Clodius Parnassian, far N CA (Siskiyou) to SW BC; Cascades westward

Parnassius clodius pseudogallatinus Bryk, 1913, Clodius Parnassian, Cascades of N WA & S BC

Parnassius clodius incredibilis Bryk, 1932, Clodius Parnassian, Mt. St. Elias, Alaska; types possibly mislabeled

Parnassius clodius sol Bryk & Eisner, 1932, Clodius Parnassian, CA; Tulare to Modoc & S Siskiyou Cos.; Warners?; usually < 7000'

Parnassius clodius baldur W. H. Edwards, 1877, Clodius Parnassian, CA; S Sierra Nevada, usually above 7000'

Parnassius clodius Ménétriés, 1855 (S Sierra Nevada segregate), Clodius Parnassian, Southern Sierra Nevada (Kern-Tulare Cos.), CA

Parnassius clodius altaurus Dyar, 1903, Clodius Parnassian, [= shepardii]; SE BC, E WA, ID, W MT, NW WY, E OR

Parnassius clodius menetriesii Hy. Edwards, 1877, Clodius Parnassian, N UT

Parnassius phoebus apricatus Stichel, 1906, Phoebus Parnassian, S Alaska to NW BC

Parnassius phoebus golovinus W. Holland, 1930, Phoebus Parnassian, Seward Peninsula, Alaska

Parnassius behrii W. H. Edwards, 1870, Sierra Nevada Parnassian, CA Sierra Nevada

Parnassius smintheus sternitzkyi McDunnough, 1937, Rocky Mountain Parnassian, Siskiyou/ S Cascade Mts, NW CA-SW OR

Parnassius smintheus olympianna Burdick, 1941, Rocky Mountain Parnassian, Olympic Mts, NW WA; Vancouver I., SW BC

Parnassius smintheus yukonensis Eisner, 1969, Rocky Mountain Parnassian, SW YK, NW BC

Parnassius smintheus smintheus E. Doubleday, 1847, Rocky Mountain Parnassian, Rocky Mtns., E BC-W ALTA to N MT

Parnassius smintheus magnus W. G. Wright, 1905, Rocky Mountain Parnassian, S BC, E WA, E OR, ID, W MT, NW WY

Parnassius smintheus maximus Bryk & Eisner, 1937, Rocky Mountain Parnassian, C & E MT

Parnassius smintheus sayii W. H. Edwards, 1863, Rocky Mountain Parnassian, [= hermodur]; NE NV, UT, S & E WY, W SD, W NB, CO, N NM

Parnassius smintheus pseudorotgeri Eisner, 1966, Rocky Mountain Parnassian, SW CO; San Juan Mtns.

Subfamily Papilioninae Latreille, [1802]

Tribe Troidini Talbot, 1939

Parides alopis (Godman & Salvin, 1890), White-dotted Cattleheart, S Arizona (stray), W Mexico

Parides photinus (Doubleday, 1844), Pink-spotted Cattleheart, NE & NW Mexico to Costa Rica

Parides montezuma (Westwood, 1842), Montezuma's Cattleheart, NE & NW Mexico to Costa Rica

Parides eurimedes mylotes (H. Bates, 1861), True Cattleheart, S Mexico to Costa Rica

Parides eurimedes mycale (Godman & Salvin, 1890), True Cattleheart, Panama and far N Colombia

Parides childrenae childrenae (Gray, 1832), Green-celled Cattleheart, SE Mexico to Panama

Parides sesostris zestos (Gray, [1853]), Emerald-patched Cattleheart, SE Mexico to Costa Rica

Parides sesostris tarquinius (Boisduval, 1836), Emerald-patched Cattleheart, Panama, transandean Colombia, N Venezuela

Parides panares panares (Gray, [1853]), Wedge-spotted Cattleheart, Oaxaca

Parides panares lycimenes (Boisduval, 1870), Wedge-spotted Cattleheart, Chiapas to Panama

Parides erithalion polyzelus (C. Felder & R. Felder, 1865), Variable Cattleheart, E Mexico to Costa Rica

Parides erithalion trichopus (Rothschild & Jordan, 1906), Variable Cattleheart, W Mexico

Parides erithalion sadyattes (H. Druce, 1874), Variable Cattleheart, Nicaragua and N Costa Rica

Parides erithalion smalli K.S. Brown, 1994, Variable Cattleheart, S Costa Rica & Panama

Parides iphidamas iphidamas (Fabricius, 1793) (Typical segregate), Iphidamas Cattleheart, SE Mexico to Costa Rica

Parides iphidamas (Fabricius, 1793) (Atlantic Coast, Panama), Iphidamas Cattleheart, Atlantic Coast, Panama

Parides anchises marthilia R.G. De la Maza, 1999, Anchises Cattleheart, Chiapas

Parides anchises farfan K.S. Brown, 1994, Anchises Cattleheart, Panama (Pacific Coast)

Parides gundlachianus gundlachianus (C. Felder & R. Felder, 1864), Cuban Cattleheart, E Cuba

Parides gundlachianus alayoi Hernández, Alayón & D.S. Smith, 1995, Cuban Cattleheart, Pinar del Río, W Cuba

Battus philenor philenor (Linnaeus, 1771), Pipevine Swallowtail, Mexico, S & E USA & Canada

Battus philenor hirsuta (Skinner, 1908), 'California' Pipevine Swallowtail, central and northern California

Battus philenor acauda (Oberthür, 1879), 'Yucatan' Pipevine Swallowtail, Yucatan Peninsula and surrounding areas

Battus philenor orsua (Godman & Salvin, 1889), 'Tres Marias' Pipevine Swallowtail, Islas Tres Marias, Nayarit

Battus philenor insularis Vázquez, 1957, 'Revillagigedo' Pipevine Swallowtail, Islas Revillagigedo, Colima

Battus devilliers (Godart, [1824]), De Villiers' Swallowtail, Cuba, N & S Andros

Battus zetides (Munroe, 1971), *Zetides* Swallowtail, Hispaniola

Battus polydamas polydamas (Linnaeus, 1758), *Polydamas* Swallowtail, continental

Battus polydamas lucayus (Rothschild & Jordan, 1906), *Polydamas* Swallowtail, SE USA & Bahamas

Battus polydamas cubensis (Dufrane, 1946), *Polydamas* Swallowtail, Cuba & Isla de Juventud

Battus polydamas jamaicensis (Rothschild & Jordan, 1906), *Polydamas* Swallowtail, Jamaica

Battus polydamas polycrates (Höppfer, 1866), *Polydamas* Swallowtail, Hispaniola

Battus polydamas thymus (Rothschild & Jordan, 1906), *Polydamas* Swallowtail, Virgin Islands, Puerto Rico, Culebra

Battus polydamas antiquus (Rothschild & Jordan, 1906), *Polydamas* Swallowtail, Antigua; extinct

Battus polydamas christopheranus (A. Hall, 1936), *Polydamas* Swallowtail, St. Kitts, St. Christopher, Montserrat, Nevis

Battus polydamas neodamas (Lucas, 1852), *Polydamas* Swallowtail, Guadeloupe & Marie-Galante

Battus polydamas dominicus (Rothschild & Jordan, 1906), *Polydamas* Swallowtail, Dominica

Battus polydamas cebriones (Dalman, 1823), *Polydamas* Swallowtail, [= *xenodamus*]; Martinique

Battus polydamas lucianus (Rothschild & Jordan, 1906), *Polydamas* Swallowtail, St. Lucia

Battus polydamas vincentius (Rothschild & Jordan, 1906), *Polydamas* Swallowtail, St. Vincent (possibly northern Grenadines)

Battus polydamas grenadensis (A. Hall, 1930), *Polydamas* Swallowtail, Grenada, southern Grenadines

Battus eracon (Godman & Salvin, 1897), West-Mexican Swallowtail, W Mexico

Battus laodamas iopas (Godman & Salvin, 1897), Green-patch Swallowtail, W Mexico

Battus laodamas copanae (Reakirt, 1863), Green-patch Swallowtail, E Mexico to N Costa Rica

Battus laodamas rhipidius (Rothschild & Jordan, 1906), Green-patch Swallowtail, Costa Rica to Panama

Battus ingenuus (Dyar, 1907), Dyar's Swallowtail, SE Mexico to E Venezuela, Trinidad, and Ecuador

Battus lycidas (Cramer, 1777), Cramer's Swallowtail, SE Mexico to N Bolivia and S Pará, Brazil

Battus crassus lepidus (C. Felder & R. Felder, 1861), Crassus Swallowtail, Costa Rica to E Venezuela and W Ecuador

Tribe Leptocircini W. F. Kirby, 1896

Eurytides epidaus epidaus (Doubleday, 1846), Mexican Kite-Swallowtail, E Mexico to NW Costa Rica

Eurytides epidaus fenochionis (Salvin & Godman, 1868), Mexican Kite-Swallowtail, SW Mexico

Eurytides epidaus tepicus (Rothschild & Jordan, 1906), Mexican Kite-Swallowtail, NW Mexico

Eurytides philolaus philolaus (Boisduval, 1836), Dark Kite-Swallowtail, Texas and Sinaloa S to Costa Rica

Eurytides philolaus xanticles (H. Bates, 1863), Dark Kite-Swallowtail, Panama, N Colombia, N Venezuela

Eurytides agesilaus neosilaus (Höppfer, 1865), Short-lined Kite-Swallowtail, E Mexico to Costa Rica

Eurytides agesilaus fortis (Rothschild & Jordan, 1906), Short-lined Kite-Swallowtail, W Mexico

Eurytides agesilaus eimeri (Rothschild & Jordan, 1906), Short-lined Kite-Swallowtail, Panama & W Colombia

Eurytides dioxippus lacandones (H. Bates, 1864), Thick-bordered Kite-Swallowtail, SE Mexico to W Panama

Eurytides dioxippus dioxippus (Hewitson, [1856]), Thick-bordered Kite-Swallowtail, C Panama to Colombia

Eurytides calliste calliste (H. Bates, 1864), Yellow Kite-Swallowtail, SE Mexico to El Salvador and Honduras

Eurytides calliste olbius (Rothschild & Jordan, 1906), Yellow Kite-Swallowtail, Costa Rica to W Panama

Eurytides thyastes marchandii (Boisduval, 1836), Orange Kite-Swallowtail, E Mexico to Honduras

Eurytides thyastes occidentalis (R.F. De la Maza, 1982), Orange Kite-Swallowtail, SW Mexico

Eurytides thyastes panamensis (Oberthür, 1879), Orange Kite-Swallowtail, Nicaragua and Costa Rica to NW Ecuador

- Eurytides salvini (H. Bates, 1864), Salvin's Kite-Swallowtail, SE Mexico to Honduras
- Eurytides orabilis orabilis (Butler, 1872), Thick-edged Kite-Swallowtail, Costa Rica & Panama
- Eurytides dolicaon septentrionalis K. Brown, 1994, Thin-tailed Kite-Swallowtail, central Panama
- Eurytides telesilaus dolius (Rothschild & Jordan, 1906), Telesilaus Swallowtail, C Panama to Trinidad and NW Ecuador
- Eurytides glaucolaus glaucolaus (H. Bates, 1864), Glaucolaus Swallowtail, Panama to C Colombia
- Eurytides macrosilaus penthesilaus (C. Felder & R. Felder, 1865), Five-striped Kite-Swallowtail, SE Mexico to Guatemala and El Salvador
- Eurytides macrosilaus macrosilaus (Gray, [1853]), Five-striped Kite-Swallowtail, Honduras to Costa Rica
- Eurytides protesilaus dariensis (Rothschild & Jordan, 1906), Great Kite-Swallowtail, Costa Rica & Panama to N Venezuela
- Eurytides celadon (Lucas, 1852), Cuban Kite-Swallowtail, Cuba & Isla de Juventud
- Eurytides zonaria (Butler, 1869), Hispaniolan Kite-Swallowtail, Hispaniola
- Eurytides anaxilaus (C. Felder & R. Felder, 1865), Small Kite-Swallowtail, Panama, N Colombia, N Venezuela
- Eurytides marcellinus (Doubleday, [1845]), Jamaican Kite-Swallowtail, Jamaica
- Eurytides marcellus (Cramer, 1777), Zebra Swallowtail, E USA & Canada
- Mimoides thymbraeus thymbraeus (Boisduval, 1836), White-crescent Swallowtail, SE Mexico to Honduras
- Mimoides thymbraeus aconophos (Gray, [1853]), White-crescent Swallowtail, W Mexico
- Mimoides ilus branchus (Doubleday, 1846), Ilus Swallowtail, E Mexico to N Costa Rica
- Mimoides ilus occiduus (Vázquez, 1957), Ilus Swallowtail, W Mexico
- Mimoides ilus ilus (Fabricius, 1793), Ilus Swallowtail, Panama to N Colombia & C Venezuela
- Mimoides euryleon clusoculis (Butler, 1872), False Cattleheart Swallowtail, Costa Rica & Panama
- Mimoides phaon phaon (Boisduval, 1836), Variable Swallowtail, NE Mexico to Panama
- Mimoides pausanius prasinus (Rothschild & Jordan, 1906), Bluish Mimic-Swallowtail, Costa Rica & W Panama
- Mimoides pausanius cleombrotas (Strecker, 1885), Bluish Mimic-Swallowtail, E Panama to N Ecuador

Tribe Papilionini Latreille, [1802]

Papilio machaon aliaska Scudder, 1869, Old World Swallowtail, Alaska, NW Canada

Papilio machaon hudsonianus A. Clark, 1932, Old World Swallowtail, NE Canada (and far NE USA)

Papilio machaon pikei Sperling, 1987, Old World Swallowtail, Peace River region, ALTA-BC

Papilio machaon oregonia W. H. Edwards, 1876, 'Oregon' Old World Swallowtail, Columbia Basin, NW USA

Papilio machaon dodi McDunnough, 1939, 'Baird's' Old World Swallowtail, northern Great Plains, Alberta to NE Colorado

Papilio machaon bairdii W. H. Edwards, 1866, 'Baird's' Old World Swallowtail, southern Rocky Mountains to SE California

Papilio breviceuda breviceuda Saunders, 1869, Short-tailed Swallowtail, S Laborador, Newfoundland, Anticosti Island

Papilio breviceuda gaspeensis McDunnough, 1934, Short-tailed Swallowtail, Gaspé Peninsula, Quebec

Papilio breviceuda bretonensis McDunnough, 1939, Short-tailed Swallowtail, Maritime Provinces

Papilio joanae J. Heitzman, 1973, Ozark Swallowtail, Ozark region, central USA

Papilio polyxenes polyxenes Fabricius, 1775, Black Swallowtail, Cuba

Papilio polyxenes asterius (Stoll, 1782), Black Swallowtail, Canada, E USA, S to El Salvador

Papilio polyxenes coloro W. G. Wright, 1905, Desert Swallowtail, far SW USA

Papilio polyxenes stabilis Rothschild & Jordan, 1906, 'Central American' Black Swallowtail, Costa Rica & W Panama

Papilio zelicaon Lucas, 1852, Anise Swallowtail, W USA & Canada, Baja California Norte

Papilio indra shastensis J. Emmel & T. Emmel, 1998, Indra Swallowtail, NW CA, SW OR

Papilio indra indra Reakirt, 1866, Indra Swallowtail, most of range; NE ORE-WA, ID, MT, N UT, WY, W SD, CO

Papilio indra Reakirt, 1866 (N & C Sierra Nevada segregate), Indra Swallowtail, ["*i. indra*"]; N & C Sierra Nevada, CA

Papilio indra phyllisae J. Emmel, 1982, Indra Swallowtail, S Sierra Nevada, CA

Papilio indra pergamus Hy. Edwards, 1874, Indra Swallowtail, Los Angeles, W San Berdo.,
Riverside, San Diego cos., CA

Papilio indra fordii J. A. Comstock & Martin, 1956, Indra Swallowtail, Calico S to Granite Mts.;
Sheephole, Coxcomb, Eagle Mts., CA

Papilio indra parvindra J. Emmel, T. Emmel & Griffin, 2008, Indra Swallowtail, [= *pygmaeus*],
Dead Mtns., San Bernardino Co., CA

Papilio indra martini J. Emmel & T. Emmel, 1966, Indra Swallowtail, Providence Mtns., San
Bernardino Co., CA

Papilio indra panamintensis J. Emmel, 1982, Indra Swallowtail, Panamint Mts., Death Valley
region, CA

Papilio indra nevadensis T. Emmel & J. Emmel, 1971, Indra Swallowtail, C & N NV

Papilio indra calcicola J. Emmel & Griffin, 1998, Indra Swallowtail, Muddy Mtns., Clark Co.,
NV, and vicinity, to E Death Valley area

Papilio indra minori Cross, 1937, Indra Swallowtail, W CO, E UT, NW NM, NE AZ

Papilio indra kaibabensis Bauer, 1955, Indra Swallowtail, N AZ, S UT

Papilio xuthus Linnaeus, 1767, Asian Swallowtail, Introduced to Hawaii

Papilio demoleus demoleus Linnaeus, 1758, Lime Swallowtail, Introduced to Greater Antilles

Papilio canadensis Rothschild & Jordan, 1906, Canadian Tiger Swallowtail, Alaska to
northern New England

Papilio appalachiensis (Pavulaan & D. Wright, 2002), Appalachian Tiger Swallowtail,
Appalachian Mtns., E USA

Papilio glaucus glaucus Linnaeus, 1758, Eastern Tiger Swallowtail, E USA, far NE
Tamaulipas

Papilio glaucus maynardi Gauthier, 1984, Eastern Tiger Swallowtail, [= *australis*]; C & S
Florida

Papilio alexiars alexiars Höpffer, 1866, Mexican Tiger Swallowtail, east-central Mexico

Papilio alexiars garcia Rothschild & Jordan, 1906, 'Garcia' Mexican Tiger Swallowtail, NE
Mexico, W Texas

Papilio rutulus Lucas, 1852, Western Tiger Swallowtail, [= *arizonensis*]; W USA & Canada,
Baja California N

Papilio eurymedon Lucas, 1852 (1805), Pale Tiger Swallowtail, W USA & Canada, Baja
California Norte

Papilio multicaudata pusillus Austin & J. Emmel, 1998, Two-tailed Tiger Swallowtail, NW
USA to Baja California

- Papilio multicaudata multicaudata* W. F. Kirby, 1884, Two-tailed Tiger Swallowtail (Xochiquetzal), SW USA to central Mexico
- Papilio multicaudata grandiosus* Austin & J. Emmel, 1998, Two-tailed Tiger Swallowtail, central Mexico to Guatemala
- Papilio pilumnus* Boisduval, 1836, Three-tailed Tiger Swallowtail, S USA (as stray), Mexico to Guatemala
- Papilio esperanza* Beutelspacher, 1975, Esperanza Swallowtail, N Oaxaca
- Papilio troilus troilus* Linnaeus, 1758, Spicebush Swallowtail, E USA & SE Canada
- Papilio troilus fakahatcheensis* (Gatrelle, 2000), Spicebush Swallowtail, S Florida
- Papilio palamedes palamedes* Drury, 1773, Palamedes Swallowtail, SE USA
- Papilio palamedes leontis* Rothschild & Jordan, 1906, Palamedes Swallowtail, NE Mexico
- Papilio homerus* Fabricius, 1793, Homerus Swallowtail, Jamaica
- Papilio garamas garamas* (Geyer, [1829]), Magnificent Swallowtail, C and W Mexico
- Papilio garamas* (Geyer, [1829]) (NW Mexican segregate), Magnificent Swallowtail, nr. garamas
- Papilio garamas abderus* Höpffer, 1856, Magnificent Swallowtail, E Mexico
- Papilio garamas baroni* Rothschild & Jordan, 1906, Magnificent Swallowtail, SW Mexico
- Papilio garamas electryon* H. Bates, 1864, Magnificent Swallowtail, Chiapas to El Salvador & Honduras
- Papilio garamas syedra* Godman & Salvin, 1878, Magnificent Swallowtail, Costa Rica & W Panama
- Papilio victorinus victorinus* E. Doubleday, 1844, Victorine Swallowtail, E Mexico to Nicaragua
- Papilio victorinus morelius* Rothschild & Jordan, 1906, Victorine Swallowtail, W Mexico
- Papilio victorinus* E. Doubleday, 1844 (NW Mexican segregate), Victorine Swallowtail, NW Mexico
- Papilio victorinus vulneratus* Butler, 1872, Victorine Swallowtail, N Costa Rica
- Papilio victorinus laetitia* Butler, 1872, Victorine Swallowtail, S Costa Rica & W Panama
- Papilio birchallii bryki* Strand, 1930, Green-washed Swallowtail, Honduras to central Panama
- Papilio birchallii birchallii* Hewitson, 1863, Green-washed Swallowtail, SE Panama to C & W Colombia
- Papilio zagreus zalates* Godman & Salvin, 1890, Orange Mimic-Swallowtail, Costa Rica to C Panama

- Papilio zagreus ascolius* (C. Felder & R. Felder, 1864), Orange Mimic-Swallowtail, N Colombia (S. Santa Marta to Magdalena V.)
- Papilio zagreus daguanus* (Rothschild & Jordan, 1906), Orange Mimic-Swallowtail, W Colombia (Choco)
- Papilio cresphontes* Cramer, 1777, Giant Swallowtail, Canada to Panama, Cuba, sporadic elsewhere
- Papilio melonius* Rothschild & Jordan, 1906, Jamaican Giant Swallowtail, Jamaica
- Papilio thoas autocles* Rothschild & Jordan, 1906, Thoas Swallowtail, Texas to Panama
- Papilio thoas neacles* Rothschild & Jordan, 1906, Thoas Swallowtail, Panama to Venezuela, Colombia, W Ecuador, far NW Peru
- Papilio thoas oviedo* Gundlach, 1866, 'Cuban' Thoas Swallowtail, Cuba
- Papilio paeon thrason* C. Felder & R. Felder, 1865, Straight-banded Swallowtail, Yucatan Peninsula to N Venezuela and W Peru
- Papilio homothoas* Rothschild & Jordan, 1906, False Giant Swallowtail, Costa Rica, Panama, N Colombia, N Venezuela, Trinidad
- Papilio astyalus pallas* G. Gray, [1853], Broad-banded Swallowtail, S Texas, E Mexico to N Costa Rica
- Papilio astyalus bajaensis* J. Brown & Faulkner, 1992, Broad-banded Swallowtail, W Mexico
- Papilio astyalus hippomedon* C. Felder & R. Felder, 1859, Broad-banded Swallowtail, Panama, Colombia, E to Guianas & S to mid-Amazon
- Papilio ornythion* Boisduval, 1836 (Typical segregate), Ornythion Swallowtail, S Texas, E Mexico to Honduras
- Papilio ornythion* Boisduval, 1836 (W Mexican segregate), Ornythion Swallowtail, S Arizona, W Mexico
- Papilio thersites* Fabricius, 1775, False Androgeus Swallowtail, Jamaica
- Papilio androgeus epidaurus* Godman & Salvin, 1890, Androgeus Swallowtail, Greater Antilles (minus Jamaica), E Mexico to W Ecuador
- Papilio androgeus* Cramer, 1775 (W Mexican segregate), Androgeus Swallowtail, W Mexico
- Papilio aristodemus ponceanus* Schaus, 1911, Schaus' Swallowtail, S Florida & northern Bahamas
- Papilio aristodemus majasi* (L. Miller, 1987), Schaus' Swallowtail, Crooked & Acklin islands, central Bahamas
- Papilio aristodemus bjorndale* Clench, 1979, Schaus' Swallowtail, Mayaguana, Turks & Caicos & Inagua islands

Papilio aristodemus temenes Godart, 1819, Schaus' Swallowtail, Cuba

Papilio aristodemus aristodemus Esper, 1794, Schaus' Swallowtail, Hispaniola, Mona, Puerto Rico

Papilio andraemon bonhotei Sharpe, 1900, Bahamian Swallowtail, S Florida & Bahamas

Papilio andraemon andraemon (Hübner, [1823]), Bahamian Swallowtail, Cuba, Little Cayman & Cayman Brac, Jamaica

Papilio andraemon tailori Rothschild & Jordan, 1906, Bahamian Swallowtail, Grand Cayman

Papilio machaonides Esper, 1796, Machaonides Swallowtail, Hispaniola

Papilio aristor Godart, 1819, Scarce Hispaniolan Swallowtail, Hispaniola

Papilio caiguanabus Poey, [1852], Poey's Swallowtail, Cuba

Papilio torquatus tolus Godman & Salvin, 1890, Torquatus Swallowtail, NE Mexico to C Veracruz

Papilio torquatus atzukoae Okano, 1985, Torquatus Swallowtail, southern Veracruz to E El Salvador

Papilio torquatus mazai Beutelspacher, 1977, Torquatus Swallowtail, W Mexico to W El Salvador

Papilio torquatus tolmidis Godman & Salvin, 1890, Torquatus Swallowtail, Guatemala to Panama

Papilio anchisiades idaeus Fabricius, 1793, Ruby-spotted Swallowtail, Texas to Colombia & NW Venezuela

Papilio rogeri rogeri Boisduval, 1836, Pink-spotted Swallowtail, Yucatan Peninsula and surrounding areas

Papilio rogeri pharnaces E. Doubleday, 1846, Pink-spotted Swallowtail, S Texas, most of Mexico, to NW Guatemala

Papilio isidorus rhodostictus Butler & H. Druce, 1874, Ruby-patched Swallowtail, Costa Rica & W Panama

Papilio isidorus pacificus Rothschild & Jordan, 1906, Ruby-patched Swallowtail, E Panama to Ecuador

Papilio erostratus erostratus Westwood, 1847, Erostratus Swallowtail, Chiapas, Guatemala, El Salvador

Papilio erostratus erostratinus Vázquez, 1947, Erostratus Swallowtail, E Mexico

Papilio erostratus vazquezae Beutelspacher, 1986, Erostratus Swallowtail, SW Mexico

Papilio oxynius (Geyer, [1827]), Oxynius Swallowtail, Cuba

Papilio pelaus pelaus Fabricius, 1775, Caribbean Swallowtail, Jamaica

Papilio pelaus atkinsi M. Bates, 1935, Caribbean Swallowtail, Cuba

Papilio pelaus imerius Godart, 1819, Caribbean Swallowtail, Hispaniola & Puerto Rico

Family PIERIDAE Swainson, 1820, WHITES and YELLOWS,

Subfamily Dismorphiinae Schatz, 1866, Mimic-Whites,

Pseudopieris nehemias irma Lamas, 1979, Clean Mimic-White, S Mexico (Chiapas) & Guatemala

Pseudopieris nehemias francisca Lamas, 1979, Clean Mimic-White, Honduras

Pseudopieris nehemias luisa Lamas, 1979, Clean Mimic-White, Panama to Ecuador

Dismorphia spio (Godart, 1819), Hispaniolan Mimic-White, Hispaniola and Puerto Rico

Dismorphia cubana (Herrich-Schäffer, 1865), Cuban Mimic-White, Cuba

Dismorphia amphione lupita Lamas, 1979, Tiger Mimic-White, NW Mexico (Nayarit, Jalisco, Colima)

Dismorphia amphione isolda Llorente, 1984, Tiger Mimic-White, SW Mexico, Pacific slope of Guerrero & Oaxaca

Dismorphia amphione praxinoe (Doubleday, 1844), Tiger Mimic-White, E Mexico to Colombia

Dismorphia amphione beroe (Lucas, 1852), Tiger Mimic-White, Panama-Colombia

Dismorphia crisia alvarezii J. De la Maza & R. G. De la Maza, 1984, Crisia Mimic-White, SW Chiapas, Mexico, to Guatemala

Dismorphia crisia virgo (H. Bates, 1864), Crisia Mimic-White, SE Mexico & Guatemala

Dismorphia crisia steinhauseri J. De la Maza & R. G. De la Maza, 1984, Crisia Mimic-White, El Salvador

Dismorphia crisia lubina Butler, 1872, Crisia Mimic-White, Costa Rica & Panama

Dismorphia eunoe eunoe (Doubleday, 1844), Eunoe Mimic-White, S Mexico; Atlantic slope of Veracruz & Oaxaca

Dismorphia eunoe popoluca Llorente & Luis, 1988, Eunoe Mimic-White, Los Tuxtlas region, Veracruz, Mexico

Dismorphia eunoe chamula Llorente & Luis, 1988, Eunoe Mimic-White, S Mexico (Chiapas)

Dismorphia eunoe desine (Hewitson, 1869), Eunoe Mimic-White, Nicaragua & Costa Rica to Panama

Dismorphia eunoe noelia Lamas, 2004, Eunoe Mimic-White, Darien, Panama

Dismorphia lua costaricensis (Schaus, 1913), Lua Mimic-White, Costa Rica

Dismorphia lua idae Fassl, 1910, Lua Mimic-White, Panama - W Colombia

Dismorphia zaela oreas (Salvin, 1871), Zaela Mimic-White, Costa Rica & Panama

Dismorphia zathoe pallidula Butler & H. Druce, 1874, Zathoe Mimic-White, Costa Rica & Panama

Dismorphia theucharila fortunata (Lucas, 1854), Clearwinged Mimic-White, E Mexico to NW Colombia

Dismorphia theucharila siloe (Hewitson, [1858]), Clearwinged Mimic-White, Panama and Colombia

Enantia albania albania (H. Bates, 1864), Costa-spotted Mimic-White, S TX (one-time stray), E Mexico to Guatemala & El Salvador

Enantia albania amalia (Staudinger, 1884), Costa-spotted Mimic-White, Nicaragua to Panama

Enantia jethys (Boisduval, 1836), Jethys Mimic-White, E Mexico to El Salvador & Nicaragua

Enantia mazai mazai Llorente, 1984, De la Maza's Mimic-White, E Mexico to Chiapas

Enantia mazai diazi Llorente, 1984, De la Maza's Mimic-White, W Mexico

Enantia lina virna Lamas, 2003, White Mimic-White, S Mexico (SW Chiapas) to SW Guatemala

Enantia lina marion Godman & Salvin, 1889, White Mimic-White, SE Mexico to Panama

Lieinix lala turrenti J. De la Maza & R. G. De la Maza, 1984, Dark Mimic-White, SW Chiapas, Mexico

Lieinix lala lala (Godman & Salvin, 1889), Dark Mimic-White, C Chiapas, Mexico to Guatemala

Lieinix neblina J. De la Maza & R. G. De la Maza, 1984, Guerrero Mimic-White, SW Mexico (Guerrero and Oaxaca)

Lieinix nemesis nayaritensis Llorente, 1984, Frosted Mimic-White, W Mexico (Nayarit to Oaxaca)

Lieinix nemesis atthis (Doubleday, 1842), Frosted Mimic-White, E Mexico to Panama

Lieinix cinerascens (Salvin, 1871), Bluish Mimic-White, El Salvador to Panama

Lieinix viridifascia (Butler, 1872), Greenish Mimic-White, Meseta Central & Volcan Chiriqui, Costa Rica & Panama

Patia cordillera sororna (Butler, 1872), Cordilleran Mimic-White, Costa Rica to Colombia

Subfamily Coliadinae Swainson, 1821, Sulphurs and Yellows,

Kricogonia lyside (Godart, 1819), Lyside Sulphur, SE AZ & S TX (strays N) to Venezuela; S FL, Gr. Antilles

Kricogonia cabrerai Ramsden, 1920, Cuban Sulphur, Cuba

Nathalis iole iole Boisduval, 1836, Dainty Sulphur, S USA (strays N to Canada) to Honduras, Greater Antilles

Eurema दौरा sidonia (R. Felder, 1869), Barred Yellow, SE AZ & SW NM (as vagrant), W Mexico

Eurema दौरा दौरा (Godart, 1819), Barred Yellow, SE USA, Bahamas, Cuba as irregular vagrant

Eurema दौरा palmira (Poey, [1852]), Barred Yellow, Greater & Lesser Antilles, irregularly S FL (as vagrant?)

Eurema दौरा eugenia (Wallengren, 1860), Barred Yellow, S TX (strays N), E Mexico to Panama

Eurema दौरा lydia (C. Felder & R. Felder, 1872), Barred Yellow, SE Panama, NW South America

Eurema elathea elathea (Cramer, 1777), Banded Yellow, Greater & Lesser Antilles, Bahamas, Caymans

Eurema elathea vitellina (C. Felder & R. Felder, 1861), Banded Yellow, Nicaragua to Colombia & Venezuela

Eurema lucina (Poey, [1852]), Smudged Yellow, [= *forbesi*?], Cuba and Isla de Juventud

Eurema priddy (Lathy, 1898), Priddy's Yellow, Hispaniola

Eurema boisduvaliana (C. Felder & R. Felder, 1865), Boisduval's Yellow, SE AZ, SW NM, S TX (sporadic) to W Costa Rica, Cuba, Jamaica

Eurema gratiosa (Doubleday, 1847), Disjunct Yellow, W Costa Rica to Venezuela, St. Lucia & the Grenadines

Eurema mexicana mexicana (Boisduval, 1836), Mexican Yellow, SW USA (strays widely N) to Panama

- Eurema mexicana bogotana (C. Felder & R. Felder, 1861), Mexican Yellow, Costa Rica, Panama, Colombia
- Eurema adamsi (Lathy, 1898), Contrasting Yellow, Jamaica
- Eurema salome jamapa (Reakirt, 1866), Salome Yellow, S NM & S TX (as strays) to Panama
- Eurema xanthochlora xanthochlora (Kollar, 1850), Tropical Yellow, SE Mexico to Colombia & Venezuela
- Eurema albula celata (R. Felder, 1869), White Yellow, E & W Mexico to Honduras
- Eurema albula marginella (C. Felder & R. Felder, 1861), White Yellow, Nicaragua to Ecuador
- Eurema albula albula (Cramer, 1775), White Yellow, NE South America to Argentina, Trinidad, St. Vincent
- Eurema agave millerorum Llorente & Luis, 1987, Agave Yellow, SE Mexico to Costa Rica
- Eurema agave agave (Cramer, 1775), Agave Yellow, Panama, South America
- Eurema amelia (Poey, [1852]), Cuban Yellow, Cuba & Isla de Juventud
- Abaeis nicippe (Cramer, 1779), Sleepy Orange, S USA (strays N) to Costa Rica, Gr. Antilles, Caymans, Bahamas
- Abaeis nicippiformis (Munroe, 1947), Fast Orange, Hispaniola
- Pyrisitia proterpia (Fabricius, 1775), Tailed Orange, SE AZ, SW NM, S TX (strays N) to Peru, most Greater Antilles
- Pyrisitia lisa lisa (Boisduval & Le Conte, [1830]), Little Yellow, SE USA (C TX to VA, strays N), Bermuda, N Bahamas
- Pyrisitia lisa centralis (Herrich-Schäffer, 1865), Little Yellow, SE AZ (as stray), S TX to Panama
- Pyrisitia lisa euterpe (Ménétriés, 1832), Little Yellow, Greater and Lesser Antilles to Barbados
- Pyrisitia euterpiformis (Munroe, 1947), Hispaniolan Yellow, Hispaniola
- Pyrisitia venusta emanona (Dillon, 1947), Pale Yellow, Lesser Antilles (Grenada to Montserrat)
- Pyrisitia venusta venusta (Boisduval, 1836), Pale Yellow, Panama, northern South America
- Pyrisitia nise nelphe (R. Felder, 1869), Mimosa Yellow, S AZ (as stray) & S TX (strays N) to Panama
- Pyrisitia nise nise (Cramer, 1775), Mimosa Yellow, S FL, Grand Bahama, New Providence I., Cuba, Jamaica
- Pyrisitia laeae (Herrich-Schäffer, 1862), Confusing Yellow, Cuba, Andros, Great Abaco

Pyrisitia chamberlaini chamberlaini (Butler, 1898), Chamberlain's Yellow , Great Bahama Bank

Pyrisitia chamberlaini clenchi (L. Miller, Simon & Harvey, 1992), Chamberlain's Yellow , Crooked & Acklins Islands

Pyrisitia chamberlaini mariguanae (M. Bates, 1934), Chamberlain's Yellow , Mayaguana I. & Caicos Islands

Pyrisitia chamberlaini inaguae (Munroe, 1950), Chamberlain's Yellow , Great & Little Inagua, far E Cuba

Pyrisitia dina westwoodii (Boisduval, 1836), Dina Yellow, SE AZ (as stray) & E Mexico to Panama

Pyrisitia dina gabriela Le Crom & Llorente, 2004, Dina Yellow, [far SE Panama?], Colombia

Pyrisitia dina helios (D. Bates, 1934), Dina Yellow, S FL, Bahamas

Pyrisitia dina dina (Poey, 1832), Dina Yellow, Cuba

Pyrisitia dina parvumbra (Kaye, 1925), Dina Yellow, Jamaica

Pyrisitia dina mayobanex (M. Bates, 1939), Dina Yellow, Hispaniola

Pyrisitia leuce athalia (V. Felder & R. Felder, 1865), Leuce Yellow, Panama, Colombia, Venezuela, Trinidad

Pyrisitia leuce memulus (Butler, 1871), Leuce Yellow, Hispaniola

Pyrisitia leuce antillarum (A. Hall, 1936), Leuce Yellow, P. Rico, St. Kitts, St. Martin, Guadeloupe, Dominica, St. Lucia

Pyrisitia portoricensis (Dewitz, 1877), Puerto Rican Yellow, Puerto Rico

Pyrisitia pyro (Godart, 1819), Pyro Orange, Hispaniola

Pyrisitia messalina (Fabricius, 1785), Whitish Yellow, Bahamas, Cuba, I. de Juventud, Jamaica, Caymans, [S FL?]

Colias philodice guatemalena Röber, 1909, 'Guatemalan' Clouded Sulphur, Chiapas & Guatemala

Colias philodice philodice Godart, 1819, Clouded Sulphur, MORE INFO ...

Colias philodice eriphyle W. H. Edwards, 1876, Clouded Sulphur, MORE INFO ...

Colias philodice vitabunda Hovanitz, 1943, Clouded Sulphur, MORE INFO ...

Colias eurytheme Boisduval, 1832, Orange Sulphur, MORE INFO ...

Colias occidentalis occidentalis Scudder, 1862, Western Sulphur, [= nortepacifica]

Colias occidentalis Scudder, 1862 (SW Oregon segregate), Western Sulphur, S Cascades, far NE Siskiyou, Jackson -Josephine Co., OR

Colias occidentalis chrysomelas Hy. Edwards, 1877, Western Sulphur, [MORE INFO ...](#)

Colias christina kluanensis Ferris, 1981, Christina's Sulphur, [MORE INFO ...](#)

Colias christina christina W. H. Edwards, 1863, Christina's Sulphur, [MORE INFO ...](#)

Colias christina sacajawea Kohler, 2006, Christina's Sulphur, [MORE INFO ...](#)

Colias christina krauthii Klots, 1935, Christina's Sulphur, [MORE INFO ...](#)

Colias christina pseudochristina Ferris, 1989, Christina's Sulphur, [MORE INFO ...](#)

Colias christina W. H. Edwards, 1863 (lower Snake River drainage), Christina's Sulphur, [MORE INFO ...](#)

Colias christina W. H. Edwards, 1863 (NE Oregon mountains), Christina's Sulphur, [MORE INFO ...](#)

Colias christina sullivanii Hammond & McCorkle, 2003, Christina's Sulphur, [MORE INFO ...](#)

Colias alexandra altamont Kondla & Kohler, 2006, Queen Alexandra's Sulphur, [MORE INFO ...](#)

Colias alexandra astraea W. H. Edwards, 1872, Queen Alexandra's Sulphur, [MORE INFO ...](#)

Colias alexandra alexandra W. H. Edwards, 1863, Queen Alexandra's Sulphur, [MORE INFO ...](#)

Colias alexandra altiplano M. Fisher & Scott, 2006, Queen Alexandra's Sulphur, [MORE INFO ...](#)

Colias alexandra apache Ferris, 1988, Queen Alexandra's Sulphur, [MORE INFO ...](#)

Colias alexandra edwardsii W. H. Edwards, 1870, Queen Alexandra's Sulphur, [MORE INFO ...](#)

Colias alexandra pseudocolumbiensis C. Guppy & J. Shepard, 2001, Queen Alexandra's Sulphur, [MORE INFO ...](#)

Colias alexandra columbiensis Ferris, 1973, Queen Alexandra's Sulphur, [MORE INFO ...](#)

Colias harfordii Hy. Edwards, 1877, Harford's Sulphur, [MORE INFO ...](#)

Colias meadii meadii W. H. Edwards, 1871, Mead's Sulphur, [MORE INFO ...](#)

Colias meadii elis Strecker, 1885, Mead's Sulphur, [MORE INFO ...](#)

Colias meadii lemhiensis N. Curtis & Ferris, 1985, Mead's Sulphur, [MORE INFO ...](#)

Colias johanseni Troubridge & Philip, 1990, Johansen's Sulphur, Bernard Harbour, District of Mackenzie, Nunavut

Colias hecla hecla Lefèbvre, 1836, Hecla Sulphur, [MORE INFO ...](#)

Colias hecla hela Strecker, 1880, Hecla Sulphur, [MORE INFO ...](#)

Colias hecla zamolodchikovi Churkin & Grieshuber, 2001, Hecla Sulphur, Seward Peninsula, AK, possibly E through Yukon & NWT

Colias canadensis Ferris, 1982, Canadian Sulphur, MORE INFO ...

Colias tyche kolosovae Churkin, Grieshuber, Bogdanov & Zamolodchikov, 2001, Booth's Sulphur, [olga is preoccupied] Seward Peninsula, AK

Colias tyche thula Hovanitz, 1955, Booth's Sulphur, N slope Brooks Range, AK

Colias tyche boothii J. Curtis, 1835, Booth's Sulphur, C Canadian Arctic

Colias nastes nastes Boisduval, 1832, Labrador Sulphur, Labrador

Colias nastes moina Strecker, 1880, Labrador Sulphur, C Canadian Arctic

Colias nastes aliaska O. Bang-Haas, 1927, Labrador Sulphur, most of Alaska (except Seward Peninsula) and Yukon; blending with *moina* to E

Colias nastes dezhevi Korshunov, 1995, Labrador Sulphur, Seward Peninsula, AK

Colias nastes streckeri Grum-Grshimailo, 1895, Labrador Sulphur, N WA, N MT, ALTA, N BC

Colias scudderi Reakirt, 1865, Scudder's Sulphur, MORE INFO ...

Colias gigantea harroweri Klots, 1940, Giant Sulphur, [= *kohleri*; = *gracemma*]

Colias gigantea mayi F. Chermock & R. Chermock, 1940, Giant Sulphur, MORE INFO ...

Colias gigantea gigantea Strecker, 1900, Giant Sulphur, MORE INFO ...

Colias gigantea inupiat Harry, 2007, Giant Sulphur, Alaskan North Slope, Dalton Highway

Colias pelidne pelidne Boisduval & Le Conte, [1830], Pelidne Sulphur, MORE INFO ...

Colias pelidne skinneri W. Barnes, 1897, Pelidne Sulphur, MORE INFO ...

Colias interior Scudder, 1862, Pink-edged Sulphur, MORE INFO ...

Colias palaeno chippewa W. H. Edwards, 1870, Palaeno Sulphur, MORE INFO ...

Colias palaeno baffinensis Ebner & Ferris, [1978], Palaeno Sulphur, MORE INFO ...

Colias behrii W. H. Edwards, 1866, Sierra Sulphur, MORE INFO ...

Zerene cesonia cesonia (Stoll, 1790), Southern Dogface, S USA (strays far N) to Colombia, Cuba

Zerene cesonia cynops (Butler, 1873), Southern Dogface, Hispaniola

Zerene eurydice (Boisduval, 1855), California Dogface, Baja California (N) to N California

Anteos clorinde (Godart, [1824]), White Angled-Sulphur, SW USA (strays), S TX to Argentina, Cuba, Jamaica, Hispaniola

Anteos maerula (Fabricius, 1775), Yellow Angled-Sulphur, SW USA (strays), S TX to Peru, S FL, Bahamas, Gr. Antilles

Prestonia clarki Schaus, 1920, West-Mexican Sulphur, W Mexico (Sinaloa to Oaxaca)

Phoebis sennae sennae (Linnaeus, 1758), Cloudless Sulphur, Caribbean Islands, blends with *eubule* S FL

Phoebis sennae eubule (Linnaeus, 1767), Cloudless Sulphur, SE USA (strays far N, NW)

Phoebis sennae marcellina (Cramer, 1777), Cloudless Sulphur, SW USA (strays far N), S TX through Panama, most S. America

Phoebis editha (Butler, 1870), Edith's Sulphur, Hispaniola

Phoebis philea philea (Linnaeus, 1763), Orange-barred Sulphur, SW USA (strays far N) to S Brazil, Gulf Coast to FL, P. Rico, etc.

Phoebis philea thalestris (Illiger, 1801), Orange-barred Sulphur, Hispaniola

Phoebis philea huebneri Fruhstorfer, 1907, Orange-barred Sulphur, Cuba [P. p. *philea* also in W Cuba, with intergrades]

Phoebis avellaneda (Herrich-Schäffer, 1865), Orange-washed Sulphur, Cuba

Phoebis neocypris virgo (Butler, 1870), Tailed Sulphur, SE AZ & S TX (rare strays) to Brazil

Phoebis argante DHJ01 (P. *argante* of Brown, 1929), Pale Apricot Sulphur, KS, TX (rare stray), E & W Mexico to Argentina, Trinidad

Phoebis argante DHJ02 (P. *hersilia* of Brown, 1929), Dark Apricot Sulphur, S Mexico to S Brazil, Trinidad

Phoebis argante martini W. Comstock, 1944, Apricot Sulphur, Puerto Rico

Phoebis argante rorata (Butler, 1869), Apricot Sulphur, Hispaniola

Phoebis argante minuscula (Butler, 1869), Apricot Sulphur, [= *fornax*], Cuba

Phoebis argante comstocki Avinoff, 1944, Apricot Sulphur, Jamaica

Phoebis agarithe fisheri (Hy. Edwards, 1883), Large Orange Sulphur, Baja California

Phoebis agarithe agarithe (Boisduval, 1836), Large Orange Sulphur, S W USA (strays far N), S TX to Peru; Galapagos Is., Hawaii

Phoebis agarithe maxima (Neumoegen, 1891), Large Orange Sulphur, Florida

Phoebis agarithe antillia F. Brown, 1929, Large Orange Sulphur, Bahamas, Greater & Lesser Antilles

Phoebis agarithe pupillata Dillon, 1947, Large Orange Sulphur, Windward Islands, at least Guadeloupe to at least St. Lucia and Barbados

Rhabdodryas trite (Linnaeus, 1758) (northern segregate), Straight-lined Sulphur , E & W Mexico to Panama

Rhabdodryas trite watsoni (F. Brown, 1929), Straight-lined Sulphur , Hispaniola, P. Rico, St. Kitts, Montserrat, Guad. to St. Vincent

Aphrissa boisduvalii (C. Felder & R. Felder, 1861), Boisduval's Sulphur, E & S Mexico to W Peru

Aphrissa schausi (Avinoff, 1926), Schaus' Sulphur, [taxonomic status uncertain] S Mexico and Guatemala

Aphrissa wallacei (C. & R. Felder, 1862), Wallace's Sulphur, ([= *fluminensis*] Costa Rica to Argentina)

Aphrissa statira statira (Cramer, 1777), Statira Sulphur, S TX (strays N), E & W Mexico to Argentina, Lesser Antilles

Aphrissa statira hispaniolae (Munroe, 1947), Statira Sulphur, Hispaniola

Aphrissa statira cubana d'Almeida, 1939, Statira Sulphur, Cuba, Cayman Islands, Jamaica

Aphrissa statira floridensis (Neumoegen, 1891), Statira Sulphur, Florida

Aphrissa neleis (Boisduval, 1836), Pink-spot Sulphur, Cuba, Isla de Juventud, New Providence, N & S Andros, S FL

Aphrissa godartiana godartiana (Swainson, 1821), Godart's Sulphur, Hispaniola

Aphrissa godartiana hartonia (Butler, 1870), Godart's Sulphur, Jamaica

Aphrissa orbis orbis (Poey, 1832), Orbis Sulphur, S FL (rare stray), Cuba, Isla de Juventud, Cayman Brac

Aphrissa orbis browni (Munroe, 1947), Orbis Sulphur, Hispaniola

Subfamily Pierinae Swainson, 1820, Whites,

Tribe Anthocharidini Scudder, 1889

Anthocharis cethura bajacalifornia J. Emmel, T. Emmel & Mattoon, 1998, Desert Orangetip, MORE INFO ...

Anthocharis cethura catalina Meadows, 1937, Desert Orangetip, MORE INFO ...

Anthocharis cethura cethura C. Felder & R. Felder, 1865, Desert Orangetip, MORE INFO ...

Anthocharis cethura morrisoni W. H. Edwards, 1881, Desert Orangetip, MORE INFO ...

- Anthocharis cethura hadromarmorata* J. Emmel, T. Emmel & Mattoon, 1998, Desert Orangetip, [MORE INFO](#) ...
- Anthocharis cethura mojavensis* J. Emmel, T. Emmel & Mattoon, 1998, Desert Orangetip, [MORE INFO](#) ...
- Anthocharis cethura pima* W. H. Edwards, 1888, 'Pima' Desert Orangetip, [MORE INFO](#) ...
- Anthocharis sara* Lucas, 1852 (Isla de Cedros segregate), Sara Orangetip, Isla de Cedros, Baja California, Mexico
- Anthocharis sara gunderi* Ingham, 1933, Sara Orangetip, [MORE INFO](#) ...
- Anthocharis sara sara* Lucas, 1852, Sara Orangetip, [MORE INFO](#) ...
- Anthocharis sara sempervirens* J. Emmel, T. Emmel & Mattoon, 2008, Sara Orangetip, [MORE INFO](#) ...
- Anthocharis sara flora* W. G. Wright, 1892, Sara Orangetip, [MORE INFO](#) ...
- Anthocharis sara alaskensis* Gunder, 1932, Sara Orangetip, [MORE INFO](#) ...
- Anthocharis sara stella* W. H. Edwards, 1879, Sara Orangetip, [MORE INFO](#) ...
- Anthocharis sara sulfuris* Pelham, 2008, Sara Orangetip, [= columbia]
- Anthocharis sara browningi* Skinner, 1906, Sara Orangetip, [MORE INFO](#) ...
- Anthocharis sara julia* W. H. Edwards, 1872, Sara Orangetip, [MORE INFO](#) ...
- Anthocharis sara colorado* M. Fisher & Scott, 2008, Sara Orangetip, SW CO, SE UT, NW NM, [NE AZ]
- Anthocharis sara coriande* Scott & M. Fisher, 2008, Sara Orangetip, N NM, far S-central CO
- Anthocharis sara inghami* Gunder, 1932, Sara Orangetip, [MORE INFO](#) ...
- Anthocharis sara thoosa* (Scudder, 1878), Sara Orangetip, [MORE INFO](#) ...
- Anthocharis sara pseudothoosa* Austin, 1998, Sara Orangetip, [MORE INFO](#) ...
- Anthocharis midea midea* (Hübner, [1809]), Falcate Orangetip, [MORE INFO](#) ...
- Anthocharis midea annickae* dos Passos & Klots, 1969, Falcate Orangetip, [MORE INFO](#) ...
- Anthocharis midea texana* Gatrell, 1998, Falcate Orangetip, [far NE TAMPS]
- Anthocharis limonea* (Butler, 1871), Mexican Orangetip, E & C Mexico
- Anthocharis lanceolata lanceolata* Lucas, 1852, Gray Marble, SW OR, N CA, far W NV, S through Sierra Nevada
- Anthocharis lanceolata australis* (F. Grinnell, 1908), Gray Marble, S CA Ranges

Anthocharis lanceolata desertolimbus J. Emmel, T. Emmel & Mattoon, 1998, Gray Marble, W edge Colorado Desert (Palm Spgs. area S to N BC)

Euchloe naina jakutia Back, 1991, Arctic Marble, MORE INFO ...

Euchloe ausonides ogilvia Back, 1991, Large Marble, MORE INFO ...

Euchloe ausonides insulanus C. Guppy & J. Shepard, 2001, Large Marble, Puget Sound, WA, [BC]

Euchloe ausonides transmontana Austin & J. Emmel, 1998, Large Marble, CA Sierra Nevada to W UT, N CA, OR, E WA, S BC, W ID

Euchloe ausonides ausonides (Lucas, 1852), Large Marble, W CA (esp. Bay area), low elevations

Euchloe ausonides palaeoreios K. Johnson, 1976, Large Marble, MORE INFO ...

Euchloe ausonides coloradensis (Hy. Edwards, 1881), Large Marble, MORE INFO ...

Euchloe ausonides mayi F. Chermock & R. Chermock, 1940, Large Marble, MORE INFO ...

Euchloe olympia (W. H. Edwards, 1871), Olympia Marble, S ALTA to NE NM & C TX, prairies E to S ONT + Appalachians

Euchloe olympia (W. H. Edwards, 1871) (Great Lakes dunes segregate), Olympia Marble, dunes bordering Great Lakes (WI, IL, IN, MI)

Euchloe guaymasensis Opler, 1987, Sonoran Marble, N & C Sonora, rarely in SE AZ (Cochise Co.)

Euchloe lotta Beutenmüller, 1898, Desert Marble, SE BC, S to E CA, AZ, N SON-CHIH, far W TX, W NM, N to W MT

Euchloe hyantis andrewsi Martin, 1958, California Marble, San Bernardino Mts., CA

Euchloe hyantis hyantis (W. H. Edwards, 1871), California Marble, SW OR (NW Siskiyou), W CA to Baja California (N)

Euchloe hyantis (W. H. Edwards, 1871) (Illinois Valley segregate), California Marble, Illinois Valley, Josephine Co., OR

Euchloe creusa creusa (E. Doubleday, [1847]), Northern Marble, N MT (vic. Glacier NP), E BC, W ALTA, N to Arctic

Hesperocharis costaricensis pasion (Reakirt, [1867]), Costa Rican White, E & W Mexico to Guatemala (at least)

Hesperocharis costaricensis costaricensis H. Bates, 1866, Costa Rican White, Nicaragua to Panama

Hesperocharis crocea jaliscana Schaus, 1898, Orange White, W Mexico (Nayarit to Guerrero)

Hesperocharis crocea crocea H. Bates, 1866, Orange White, E Mexico to Panama

Hesperocharis graphites avivolans (Butler, 1865), Marbled White, E, W & S Mexico (to Oaxaca)

Hesperocharis graphites graphites H. Bates, 1864, Marbled White, Chiapas to Panama

Tribe Pierini Swainson, 1820

Glutophrissa drusilla tenuis (Lamas, 1981), Florida White, W Mexico & S TX (strays far N) to Peru

Glutophrissa drusilla neumoenii (Skinner, 1894), Florida White, S Florida

Glutophrissa drusilla poeyi (Butler, 1872), Florida White, Bahamas, Cuba, Isla de Juventud, Caymans

Glutophrissa drusilla castalia (Fabricius, 1793), Florida White, Jamaica

Glutophrissa drusilla boydi (W. Comstock, 1943), Florida White, Hispaniola, Mona, Puerto Rico, Culebra, Virgin Islands

Glutophrissa drusilla comstocki (Dillon, 1947), Florida White, Dominica & Martinique

Glutophrissa drusilla monomorpha (A. Hall, 1936), Florida White, Grenada

Glutophrissa punctifera (d'Almeida, 1939), Antillean White, Hispaniola, Puerto Rico, St. Thomas & St. John

Melete lycimnia isandra (Boisduval, 1836), Creamy White, S TX (as stray), E & W Mexico to Costa Rica

Melete lycimnia chagris (Staudinger, 1876), Creamy White, Panama

Melete lycimnia monstrosa (Butler, 1875), Creamy White, Panama

Melete polyhymnia serrana R. G. De la Maza, 1984, Golden White, N Oaxaca, Mexico (Gulf Slope)

Melete polyhymnia florinda (Butler, 1875), Golden White, Chiapas to Colombia

Melete salacia salacia (Godart, 1819), Black-striped White, Hispaniola

Melete salacia cubana Fruhstorfer, 1908, Black-striped White, Cuba

Neophasia menapia tehachapina J. Emmel, T. Emmel & Mattoon, 1998, Pine White, Tehachapi Mts., Kern Co., CA

Neophasia menapia menapia (C. Felder & R. Felder, 1859), Pine White, CA Sierra Nevada N to N OR/ S WA (or BC if tau treated as syn.)



Neophasia menapia melanica Scott, 1981, Pine White, immediate coast, Mendocino Co., CA

Neophasia menapia tau (Scudder, 1861), Pine White, BC, WA, ID, W MT, NE WY, blending in OR with typical *menapia*

Neophasia menapia magnamenapia Austin, 1998, Pine White, W NV, S & C UT, AZ, NM, CO, E WY, W NE, W SD

Neophasia terlooii Behr, 1869, Mexican Pine White, SE AZ, SW NM to central western Mexico (MICH), also NL

Eucheira socialis socialis Westwood, 1834, Social White, C Mexico to Oaxaca

Eucheira socialis westwoodi Beutelspacher, 1984, Social White, NW Mexico

Catasticta flisa flisa (Herrich-Schäffer, [1858]), Narrow-banded Dartwhite, [= *arechiza*], E & W Mexico to Guatemala

Catasticta flisa flisandra Reissinger, 1972, Narrow-banded Dartwhite, Chiapas & Guatemala

Catasticta flisa flisella Reissinger, 1972, Narrow-banded Dartwhite, SE Mexico to El Salvador

Catasticta flisa melanisa Eitschberger & Racheli, 1998, Narrow-banded Dartwhite, Costa Rica

Catasticta flisa archoflisa Eitschberger & Racheli, 1998, Narrow-banded Dartwhite, Panama

Catasticta oaxaca Beutelspacher, 1984, Oaxacan Dartwhite, Oaxaca and Chiapas, Mexico

Catasticta cerberus Godman & Salvin, 1889, Costa Rican Dartwhite, Costa Rica & Panama

Catasticta theresa Butler & H. Druce, 1874, Small Dartwhite, Costa Rica & Panama

Catasticta nimbice nimbice (Boisduval, 1836), Mexican Dartwhite, W TX, E & W Mexico to Oaxaca

Catasticta nimbice (Boisduval, 1836) (Los Tuxtlas segregate), Mexican Dartwhite, Los Tuxtlas region, Veracruz

Catasticta nimbice ochracea (H. Bates, 1864), Mexican Dartwhite, Chiapas and Guatemala to Nicaragua

Catasticta nimbice bryson Godman & Salvin, 1889, Mexican Dartwhite, Costa Rica & Panama

Catasticta nimbice ligata Eitschberger & Racheli, 1998, Mexican Dartwhite, Panama

Catasticta teutila teutila (Doubleday, 1847), Pure-banded Dartwhite, C Mexico (Jalisco to Veracruz)

Catasticta teutila flavifasciata Beutelspacher, 1986, Pure-banded Dartwhite, S Mexico (Oaxaca)

Catasticta teutila (Doubleday, 1847) (Guerrero segregate), Pure-banded Dartwhite, S Mexico (Guerrero)

Catasticta teutila (Doubleday, 1847) (Chiapas segregate), Pure-banded Dartwhite, S Mexico (Chiapas) to Guatemala (at least)

Catasticta teutila flavomaculata Lathy & Rosenburg, 1912, Pure-banded Dartwhite, Costa Rica & Panama

Catasticta ctemene actinotis Butler, 1872, Darkened Dartwhite, Costa Rica & Panama

Catasticta hegemon hegemon Godman & Salvin, 1889, Frosted Dartwhite, Costa Rica & Panama

Catasticta sisamnus smalli Eitschberger & Racheli, 1998, Whitened Dartwhite, Honduras to Panama

Leodonta dysoni dysoni (Doubleday, 1847), Dyson's White, Costa Rica to Venezuela

Leodonta tellane chiriquensis (Staudinger, 1884), Tellane White, Costa Rica & Panama

Pereute charops leonilae Llorente, 1986, Darkened White, NW Mexico (Sinaloa to Colima)

Pereute charops sphocra Draudt, 1931, Darkened White, SW Mexico (Pacific slope of Guerrero & Oaxaca)

Pereute charops charops (Boisduval, 1836), Darkened White, E Mexico

Pereute charops nigricans Joicey & Talbot, 1928, Darkened White, S Mexico (Chiapas) to Nicaragua

Pereute charops (Boisduval, 1836) (Costa Rican segregate), Darkened White, Costa Rica & Panama

Pereute cheops Staudinger, 1884, Dark White, Costa Rica & Panama

Archonias brassolis approximata (Butler, 1873), Cattleheart White, SE Mexico to Panama

Charonias eurytele nigrescens (Salvin & Godman, 1868), Tiger White, S Mexico to Guatemala (at least)

Charonias eurytele dimorphites (Butler, 1872), Tiger White, Costa Rica & Panama

Perrhybris pamela mapa J. De la Maza & R. G. De la Maza, 1989, Dimorphic White, SW Chiapas

Perrhybris pamela chajulensis J. De la Maza & R. G. De la Maza, 1989, Dimorphic White, N Oaxaca, Chiapas to Honduras

Perrhybris pamela alethina (Butler, 1872), Dimorphic White, Costa Rica & Panama

Perrhybris pamela fruhstorferi Röber, 1908, Dimorphic White, Panama

Perrhybris lypera septentrionalis Röber, 1928, Yellow-banded White, Guatemala to Panama

Pieriballia viardi viardi (Boisduval, 1836), Viardi White, S TX (rare stray), E & W Mexico to Honduras

Pieriballia viardi noctipennis (Butler & H. Druce, 1872), Viardi White, Costa Rica & Panama

Itaballia demophile centralis Joicey & Talbot, 1928, Black-banded White, S TX (one-time stray), E & S Mexico to Panama

Itaballia pandosia kicaha (Reakirt, 1863), Brown-bordered White, S Mexico to Panama

Itaballia pandosia sabata (Fruhstorfer, 1907), Brown-bordered White, SE Panama, W Colombia

Leptophobia caesia tenuicornis Butler & H. Druce, 1872, Bluish White, Costa Rica & Panama

Leptophobia tovaria (C. Felder & R. Felder, 1861) (Panama segregate), Tovariva White, Panama

Leptophobia aripa elodia (Boisduval, 1836), Mountain White, S TX (rare stray), E & W Mexico to Panama

Pieris angelika Eitschberger, [1984], Arctic White, C AK to YK & N BC

Pieris marginalis pseudobryoniae Fruhstorfer, 1909, Margined White, W-central AK

Pieris marginalis shapiro Eitschberger, [1984], Margined White, Yukon Delta region, AK

Pieris marginalis hulda W. H. Edwards, 1869, Margined White, AK coast from Kodiak Island to Aleutian Islands

Pieris marginalis meckya Eitschberger, [1984], Margined White, S-central AK (e.g., Anchorage to Palmer)

Pieris marginalis guppyi Eitschberger, [1984], Margined White, AK Panhandle (Skagway, Juneau, Haines, etc.)

Pieris marginalis tremblayi Eitschberger, [1984], Margined White, N-central BC

Pieris marginalis reicheli Eitschberger, [1984], Margined White, Rocky Mts. Of BC, ALTA, N ID, N MT

Pieris marginalis marginalis Scudder, 1861, Margined White, W OR (N of Siskiyou), W Cascades to coast, N to SW BC

Pieris marginalis sequoia J. Emmel, T. Emmel & Mattoon, 1998, Margined White, N CA coast: redwood forests Humboldt Co. (vic. Prairie Ck. S.P.)

Pieris marginalis venosa Scudder, 1861, Margined White, much of W CA

Pieris marginalis castoria Reakirt, 1866, Margined White, Siskiyou Mts. (SW OR, NW CA), W Sierra Nevada

Pieris marginalis Scudder, 1861 (Warner Mts. segregate), Margined White, Warner Mts., Lake Co. OR - Modoc Co. CA

Pieris marginalis ziegleri Eitschberger, 1991, Margined White, NW WY, W MT, ID, E WA, NE OR

Pieris marginalis pallidissima W. Barnes & McDunnough, 1916, Margined White, W CO, UT, far NW AZ, NE NV, S ID, SW WY; bivoltine

Pieris marginalis pseudonapi W. Barnes & McDunnough, 1916, Margined White, [= macdunnoughii], CO, S WY, N NM; univoltine

Pieris marginalis mogollon Burdick, 1942, Margined White, White Mts. (AZ) & Mogollon Rim (NM)

Pieris oleracea oleracea (T. Harris, 1829), Mustard White, MORE INFO ...

Pieris oleracea frigida Scudder, 1861, Mustard White, MORE INFO ...

Pieris virginiensis virginiensis W. H. Edwards, 1870, West Virginia White, MORE INFO ...

Pieris virginiensis hyatti Eitschberger, [1984], West Virginia White, MORE INFO ...

Pieris rapae rapae (Linnaeus, 1758), Cabbage White, widespread across N America to C Mexico, Hawaii; introduced

Pontia beckerii (W. H. Edwards, 1871), Becker's White, BC to Baja C. Sur, N AZ, N NM, CO, WY, S & W MT; basins

Pontia protodice (Boisduval & Le Conte, [1830]), Checkered White, widespread across N America to S Mexico; Cuba. Vagrant N

Pontia occidentalis occidentalis (Reakirt, 1866), Western White, BC to CA (S Sierra), W to N NM, N to MAN, SASK, ALTA

Pontia occidentalis nelsoni (W. H. Edwards, 1883), Western White, Alaska

Pontia sisymbrii sisymbrii (Boisduval, 1852), Spring White, Baja California, N along Sierra Nevada-Cascades to W-C OR

Pontia sisymbrii nigravenosa Austin & J. Emmel, 1998, Spring White, Mojave Desert: SE CA, W AZ, S NV, SW UT

Pontia sisymbrii transversa R. Holland, 1995, Spring White, S AZ, S NM, W TX, N SON, N CHIH

Pontia sisymbrii elivata (W. Barnes & Benjamin, 1926), Spring White, SE OR to C NV, E to CO, N NM

Pontia sisymbrii nordini (K. Johnson, 1977), Spring White, W NE, E WY, W SD, E MT

Pontia sisymbrii flavitincta (J. A. Comstock, 1924), Spring White, S BC to NE OR, E to NW WY, W MT, S ALTA

Pontia sisymbrii beringiensis C. Guppy & Kondla, 2001, Spring White, N BC-S YK

Ascia monuste monuste (Linnaeus, 1764), Great Southern White, SW USA (strays), W Mexico & S TX to N S. Am; S Lesser Antilles

Ascia monuste raza Klots, 1930, Great Southern White, Baja California Sur

Ascia monuste phileta (Fabricius, 1775), Great Southern White, SE USA (strays N), N Bahamas, (possibly sporadic on Cuba)

Ascia monuste eubotea (Godart, 1819), Great Southern White, Cuba, Hispaniola to Virgin Islands

Ascia monuste virginia (Godart, 1819), Great Southern White, Lesser Antilles between (not incl.) Virgin Islands and St. Vincent

Ganyra josephina josepha (Salvin & Godman, 1868), Giant White, S TX (strays N), E & W Mexico to Panama

Ganyra josephina josephina (Godart, 1819), Giant White, Hispaniola

Ganyra josephina krugii (Dewitz, 1877), Giant White, Puerto Rico & Mona

Ganyra josephina paramaryllis (W. Comstock, 1943), Giant White, Jamaica

Ganyra menciae (Ramsden, [1914]), Cuban White, Cuba, St. Lucia

Ganyra phaloe tiburtia (Fruhstorfer, 1907), Godart's White, E & S Mexico to El Salvador

Ganyra phaloe limona (Schaus, 1913), Godart's White, Costa Rica to Colombia

Ganyra howarthi (Dixey, 1915), Howarth's White, S AZ (as stray), NW Mexico (SIN, SON, BC, BCS)

Family LYCAENIDAE [Leach], [1815], GOSSAMERWINGS,

Subfamily Miletinae Reuter, 1896 (1886), Harvesters,

Feniseca tarquinius tarquinius (Fabricius, 1793), Harvester, MORE INFO ...

Feniseca tarquinius novascotiae McDunnough, 1935, Harvester, MORE INFO ...

Subfamily Lycaeninae [Leach], [1815], Coppers,

Iophanus pyrrhias (Godman & Salvin, 1887), Guatemalan Copper, Chiapas and Guatemala

Lycaena phlaeas hypophlaeas (Boisduval, 1852), American Copper, MORE INFO ...

- Lycaena phlaeas feildeni* (M'Lachlan, 1878), American Copper, coastal tundra in Nunavut, NWT, YK, AK
- Lycaena phlaeas arethusa* (Dod, 1907), American Copper, MORE INFO ...
- Lycaena phlaeas weberi* Kohler, 2007, American Copper, MORE INFO ...
- Lycaena phlaeas arctodon* Ferris, 1974, American Copper, MORE INFO ...
- Lycaena phlaeas shields* Kemal & Kocak, 2007, American Copper, [alpestris is preoccupied]
- Lycaena cupreus lapidicola* J. Emmel & Pratt, 1998, Lustrous Copper, CA Sierra Nevada from Nevada to Tulare-Inyo Cos.; similar in White Mts.
- Lycaena cupreus cupreus* (W. H. Edwards, 1870), Lustrous Copper, [= artemisia], N CA, C-E OR, ID, NE NV, MT, NW WY, N UT
- Lycaena cupreus henryae* (Cadbury, 1937), Lustrous Copper, BC, ALTA, N WA, NW MT
- Lycaena cupreus snowi* (W. H. Edwards, [1881]), Lustrous Copper, S Rocky Mts. of SE WY, CO, N NM; high Uinta and La Sal Mts., UT
- Lycaena arota arota* (Boisduval, 1852), Tailed Copper , MORE INFO ...
- Lycaena arota* (Boisduval, 1852) (C CA interior Coast Range segregate), Tailed Copper, MORE INFO ...
- Lycaena arota* (Boisduval, 1852) (Willamette Valley segregate), Tailed Copper , Willamette Valley, W Oregon
- Lycaena arota virginiensis* (W. H. Edwards, 1870), Tailed Copper , MORE INFO ...
- Lycaena arota nubila* (J. A. Comstock, 1926), Tailed Copper , MORE INFO ...
- Lycaena arota schellbachii* (Tilden, 1955), Tailed Copper , MORE INFO ...
- Lycaena hermes* (W. H. Edwards, 1870), Hermes Copper, MORE INFO ...
- Lycaena editha vurali* Koçak, 1984, Edith's Copper, MORE INFO ...
- Lycaena editha obscuramaculata* Austin, 1989, Edith's Copper, MORE INFO ...
- Lycaena editha* (Mead, 1878) (NE Oregon segregate), Edith's Copper, [nr. editha], NE Oregon
- Lycaena editha editha* (Mead, 1878), Edith's Copper, MORE INFO ...
- Lycaena editha pseudonexa* J. Emmel & Pratt, 1998, Edith's Copper, MORE INFO ...
- Lycaena xanthoides nigromaculata* J. Emmel & Pratt, 1998, Great Copper , MORE INFO ...
- Lycaena xanthoides xanthoides* (Boisduval, 1852), Great Copper , MORE INFO ...
- Lycaena xanthoides obsolescens* J. Emmel & Pratt, 1998, Great Copper , MORE INFO ...

- Lycaena dione (Scudder, 1868), Gray Copper, [MORE INFO ...](#)
- Lycaena gorgon gorgon (Boisduval, 1852), Gorgon Copper , [MORE INFO ...](#)
- Lycaena gorgon micropunctata J. Emmel & Pratt, 1998, Gorgon Copper , [MORE INFO ...](#)
- Lycaena gorgon jacquelineae J. Emmel & Pratt, 1998, Gorgon Copper , [MORE INFO ...](#)
- Lycaena gorgon dorothea J. Emmel & Pratt, 1998, Gorgon Copper , [MORE INFO ...](#)
- Lycaena rubidus monachensis K. Johnson & Balogh, 1977, Ruddy Copper, [MORE INFO ...](#)
- Lycaena rubidus incana Austin, 1998, Ruddy Copper, [MORE INFO ...](#)
- Lycaena rubidus rubidus (Behr, 1866), Ruddy Copper, [= duofascies]
- Lycaena rubidus perkinsorum K. Johnson & Balogh, 1977, Ruddy Copper, [MORE INFO ...](#)
- Lycaena rubidus longi K. Johnson & Balogh, 1977, Ruddy Copper, [MORE INFO ...](#)
- Lycaena rubidus sirius (W. H. Edwards, 1871), Ruddy Copper, [MORE INFO ...](#)
- Lycaena rubidus ferrisi K. Johnson & Balogh, 1977, Ruddy Copper, [MORE INFO ...](#)
- Lycaena heteronea heteronea Boisduval, 1852, Blue Copper, [MORE INFO ...](#)
- Lycaena heteronea northi J. Emmel & Pratt, 1998, Blue Copper, [MORE INFO ...](#)
- Lycaena heteronea submaculata J. Emmel & Pratt, 1998, Blue Copper, [MORE INFO ...](#)
- Lycaena heteronea clara Hy. Edwards, 1877, Blue Copper, [MORE INFO ...](#)
- Lycaena heteronea austin Kemal & Kocak, 2007, Blue Copper, [rutila is preoccupied]
- Lycaena heteronea rava Austin, 1998, Blue Copper, [MORE INFO ...](#)
- Lycaena heteronea klotsi W. D. Field, 1936, Blue Copper, [MORE INFO ...](#)
- Lycaena heteronea gravenotata Klots, 1930, Blue Copper, [MORE INFO ...](#)
- Lycaena heteronea Boisduval, 1852 (E base Cascades- boldly spotted), Blue Copper, [= nr. gravenotata], E base Cascades far N CA, OR, far S WA
- Lycaena hyllus (Cramer, 1775), Bronze Copper, [MORE INFO ...](#)
- Lycaena epixanthe epixanthe (Boisduval & Le Conte, [1835]), Bog Copper, [MORE INFO ...](#)
- Lycaena epixanthe phaedrus (G. Hall, 1924), Bog Copper, [MORE INFO ...](#)
- Lycaena epixanthe michiganensis Rawson, 1948, Bog Copper, [MORE INFO ...](#)
- Lycaena dorcas claytoni A. E. Brower, 1940, Dorcas Copper, [MORE INFO ...](#)
- Lycaena dorcas michuron Scott, 2006, Dorcas Copper, [MORE INFO ...](#)
- Lycaena dorcas dorcas W. Kirby, 1837, Dorcas Copper, [MORE INFO ...](#)

- Lycaena dorcas arcticus* (Ferris, 1977), Dorcas Copper, MORE INFO ...
- Lycaena dorcas florus* (W. H. Edwards, [1884]), Dorcas Copper, MORE INFO ...
- Lycaena dorcas megaloceras* (Ferris, 1977), Dorcas Copper, MORE INFO ...
- Lycaena dorcas castro* (Reakirt, 1866), Dorcas Copper, [= sangremar]
- Lycaena dospassosi* McDunnough, 1940, Dos Passos' Copper, MORE INFO ...
- Lycaena helloides* (Boisduval, 1852), Purplish Copper , MORE INFO ...
- Lycaena nivalis nivalis* (Boisduval, 1869), Lilac-bordered Copper, MORE INFO ...
- Lycaena nivalis* (Boisduval, 1869) (W Cascadian segregate), Lilac-bordered Copper, [nr. bichroma]
- Lycaena nivalis bichroma* J. Emmel & Pratt, 1998, Lilac-bordered Copper, MORE INFO ...
- Lycaena nivalis warnermontana* J. Emmel & Pratt, 1998, Lilac-bordered Copper, MORE INFO ...
- Lycaena nivalis* (Boisduval, 1869) (NE Oregon segregate), Lilac-bordered Copper, [nr. warnermontana]
- Lycaena nivalis praetexta* Austin, 1998, Lilac-bordered Copper, MORE INFO ...
- Lycaena nivalis browni* dos Passos, 1938, Lilac-bordered Copper, MORE INFO ...
- Lycaena mariposa mariposa* (Reakirt, 1866), Mariposa Copper, MORE INFO ...
- Lycaena mariposa* (Reakirt, 1866) (W Siskiyou segregate), Mariposa Copper, W Siskiyou, Josephine Co., OR
- Lycaena mariposa charlottensis* (W. Holland, 1930), Mariposa Copper, MORE INFO ...
- Lycaena mariposa penroseae* W. D. Field, 1938, Mariposa Copper, MORE INFO ...

Subfamily Theclinae Swainson, 1831 (1820), Hairstreaks,

Tribe Theclini Swainson, 1831 (1820), Hairstreaks,

Hypaurotis crysalus crysalus (W. H. Edwards, 1873), Colorado Hairstreak, C & S CO, NM, far W TX, AZ, SON

Hypaurotis crysalus (W. H. Edwards, 1873) (Mexican segregate), Colorado Hairstreak, NE Mexico (COAH, NL, DGO), Oaxaca

Hypaurotis crysalus intermedia Austin, 1998, Colorado Hairstreak, SE NV, SW UT

Hypaurotis crysalus citima (Hy. Edwards, 1881), Colorado Hairstreak, N UT; NW CO pops. intermediate towards nominate

Habrodais grunus lorquini W. D. Field, 1938, Golden Hairstreak, SW ORE (Siskiyou) to C CA Coast Ranges

Habrodais grunus grunus (Boisduval, 1852), Golden Hairstreak, S CA & Sierra Nevada

Habrodais grunus herri W. D. Field, 1938, Golden Hairstreak, Cascade Mountains, far S WA (Skamania Co.), OR, N OR Coast Range

Habrodais poodiae J. Brown & Faulkner, 1982, Baja Hairstreak, Baja California (Sierra San Pedro Martir)

Tribe Eumaeini E. Doubleday, 1847, Hairstreaks,

Eumaeus childrenae (G. Gray, 1832), Great Cycadian , [= debora], E & S Mexico to Honduras

Eumaeus godartii (Boisduval, 1870), White-tipped Cycadian, Costa Rica to W Ecuador

Eumaeus toxea (Godart, [1824]), Mexican Cycadian, E & W Mexico to Nicaragua (S TX as very rare stray)

Eumaeus atala (Poey, 1832), Atala, S FL, Bahamas, Cuba, Isla de Juventud

Theorema eumenia Hewitson, 1865, Tailed Cycadian, SE Mexico to Ecuador

Theorema sapho (Staudinger, 1888), Banded Cycadian, Panama to Ecuador

Paiwarria antinous (C. Felder & R. Felder, 1865), Felders' Hairstreak, S Mexico (CHIS) to Colombia

Paiwarria umbratus (Geyer, 1837), Thick-tailed Hairstreak, E & W Mexico to Nicaragua

Brangas neora (Hewitson, 1867), Widespread Brangas, E & W Mexico to S Brazil

Brangas coccineifrons (Godman & Salvin, 1887), Black-veined Brangas, SE Mexico to Colombia

Brangas carthaea (Hewitson, 1868), Green-spotted Brangas, E Mexico to Ecuador

Brangas getus (Fabricius, 1787), Bright Brangas, SE Mexico to Guianas, Trinidad

Thaeides theia (Hewitson, 1870), Brown-barred Hairstreak, SE Mexico to Bolivia & SE Brazil

Enos thara (Hewitson, 1867), Thara Hairstreak, SE Mexico to Paraguay

Enos falerina (Hewitson, 1867), Falerina Hairstreak, S Mexico (CHIS) to...

Lamasina draudti (Lathy, 1926), Draudt's Hairstreak, [= godmani], Guatemala to Colombia

- Lamasina ganimedes (Cramer, 1775), Ganimedes Hairstreak, Panama to Amazonas, Guianas
- Evenus regalis (Cramer, 1775), Regal Hairstreak, E & W Mexico to Amazonas
- Evenus coronata (Hewitson, 1865), Crowned Hairstreak, S Mexico (CHIS) to Ecuador
- Evenus batesii (Hewitson, 1865), Bates' Hairstreak, [= teresina], SE Mexico to Colombia, Brazil
- Evenus candidus (H. H. Druce, 1907), Candid Hairstreak, Panama to Amazonas
- Evenus temathea (Hewitson, 1865), Timid Hairstreak, Panama to Guianas
- Atlides halesus halesus (Cramer, 1777), Great Blue Hairstreak , SE USA to New England
- Atlides halesus corcorani Clench, 1942, Great Blue Hairstreak , W OR, CA, SW USA, NW, NE & E Mexico
- Atlides halesus cynara (Godman & Salvin, 1887), Great Blue Hairstreak, C Mexico to Oaxaca
- Atlides gaumeri (Godman, 1901), White-tipped Hairstreak, E & W Mexico to Panama
- Atlides polybe (Linnaeus, 1763), Black-veined Hairstreak, E & W Mexico to N Argentina
- Atlides inachus (Cramer, 1775), Spying Hairstreak, [= carpophora], SE Mexico to C Brazil
- Atlides atys (Cramer, 1779), Atys Hairstreak, [= scamander], Panama to Amazonas
- Atlides bacis (Godman & Salvin, 1887), Bacis Hairstreak, Belize, Panama to Peru
- Atlides carpasia (Hewitson, 1868), Jeweled Hairstreak, E & W Mexico to Honduras
- Atlides rustan (Stoll, 1790), Rustan Hairstreak, SE Mexico to C Brazil
- Arcas imperialis (Cramer, 1775), Imperial Arcas, SE Mexico to Guianas, Bolivia, S Brazil
- Arcas delphia Nicolay, 1971, Nicolay's Arcas, Costa Rica to Colombia
- Arcas splendor (H. H. Druce, 1907), Splendid Arcas, Costa Rica to Colombia
- Arcas gozmanyi Bálint, 2006, Gozmány's Arcas, Costa Rica to Colombia
- Arcas cypria (Geyer, 1837), Mexican Arcas, E & W Mexico to Colombia
- Pseudolycaena marsyas (Linnaeus, 1758), Marsyas Hairstreak, Panama and Trinidad-Tobago to Argentina
- Pseudolycaena cybele (Godman & Salvin, 1896) , St. Vincent Hairstreak, St. Vincent
- Pseudolycaena damo (H. Druce, 1875), Sky-blue Hairstreak , E & W Mexico to Colombia and W Ecuador
- Theritas mavors Hübner, 1818, Deep-green Hairstreak, SE Mexico to Guianas

Theritas augustula (W. Kirby, 1877), *Augustula* Hairstreak, Costa Rica

Theritas augustinula (Goodson, 1945), *Augustinula* Hairstreak, E & S Mexico to Panama

Theritas theocritus (Fabricius, 1793), Pearly Hairstreak, E & S Mexico to Colombia

Theritas hemon (Cramer, 1775), Pale-clubbed Hairstreak, SE Mexico to S Brazil

Theritas lisus (Stoll, 1790), *Lisus* Hairstreak, [= *hisbon*], SE Mexico to S Brazil

Theritas crines (H. H. Druce, 1907), *Crines* Hairstreak, Panama to Colombia

Johnsonita auda (Hewitson, 1867), *Auda* Hairstreak, Panama to Venezuela

Brevianta busa (Godman & Salvin, 1887), White-scalloped Hairstreak, E & W Mexico to Costa Rica

Brevianta perpenna (Godman & Salvin, 1887), *Perpenna* Hairstreak, Panama

Brevianta tolmidès (C. Felder & R. Felder, 1865), White-frosted Hairstreak, Panama to Colombia

Brevianta hyas (Godman & Salvin, 1887), *Hyas* Hairstreak, C Mexico to Costa Rica

Micandra tongida Clench, 1971, *Tongida* Hairstreak, C Mexico

Micandra cyda (Godman & Salvin, 1887), *Cyda* Hairstreak, [= *furina*], S Mexico to Costa Rica

Micandra platyptera (C. Felder & R. Felder, 1865), *Platyptera* Hairstreak, Costa Rica, Venezuela to Bolivia

Temecla paron (Godman & Salvin, 1887), *Paron* Hairstreak, E Mexico to...

Temecla heraclides (Godman & Salvin, 1887), *Heraclides* Hairstreak, S Mexico (CHIS) to...

Ipidecla miadora Dyar, 1916, West-Mexican *Ipidecla*, W Mexico (SIN to GRO)

Ipidecla schausi (Godman & Salvin, 1887), Schaus' *Ipidecla*, E Mexico to Paraguay

Ipidecla crepundia (H. H. Druce, 1909), Whitened *Ipidecla*, Peru to Trinidad

Thereus cithonius (Godart, [1824]), Pale-lobed Hairstreak, E & W Mexico to Argentina

Thereus enenia (Hewitson, 1867), *Enenia* Hairstreak, El Salvador to Colombia

Thereus pedusa (Hewitson, 1867), *Pedusa* Hairstreak, Panama to Amazonas

Thereus lutzi (Huntington, 1932), Lutz's Hairstreak, Panama

Thereus oppia (Godman & Salvin, 1887), *Oppia* Hairstreak, Mexico to Nicaragua

Thereus timoclea (Hewitson, 1870), *Timoclea* Hairstreak, Panama to Ecuador

Thereus orasus (Godman & Salvin, 1887), Crimson-spot Hairstreak, Mexico to Panama

Thereus ortalus (Godman & Salvin, 1887), *Ortalis* Hairstreak, Mexico to S Brazil

- Thereus praxis (Godman & Salvin, 1887), Praxis Hairstreak, Costa Rica to N Brazil
- Thereus lausus (Cramer, 1779), Lausus Hairstreak, S Mexico (CHIS) to Guianas, Amazonas
- Rekoa meton (Cramer, 1779), Meton Hairstreak , E & W Mexico to Bolivia, Paraguay, S Brazil, Venezuela to Guianas, Trinidad
- Rekoa palegon (Cramer, 1780), Gold-bordered Hairstreak, S TX, E & W Mexico to N Argentina, Venezuela to Guianas, Trinidad, Tobago
- Rekoa zebina (Hewitson, 1869), Zebina Hairstreak, E & W Mexico to NW Costa Rica
- Rekoa bourkei (Kaye, [1925]), Jamaican Hairstreak, Jamaica
- Rekoa abeja (K. Johnson & Matusik, 1988), Hispaniolan Hairstreak, Hispaniola
- Rekoa marius (Lucas, 1857), Marius Hairstreak, S TX, E & W Mexico to Bolivia, Paraguay, SE Brazil, Venezuela, Trinidad
- Rekoa stagira (Hewitson, 1867), Smudged Hairstreak, E & W Mexico to Paraguay, SE Brazil, Guianas, Trinidad, Venezuela
- Arawacus togarna (Hewitson, 1867), Togarna Hairstreak, SE Mexico to Amazonas
- Arawacus sito (Boisduval, 1836), Fine-lined Hairstreak , E & W Mexico to Costa Rica
- Arawacus leucogyna (C. Felder & R. Felder, 1865), Leucogyna Hairstreak, Belize to Venezuela & Peru
- Arawacus jada (Hewitson, 1867), Creamy Hairstreak, S AZ (as vagrant), E & W Mexico to Costa Rica
- Arawacus hypocrita (Schaus, 1913), Pallid Hairstreak, E & S Mexico to Costa Rica
- Arawacus dolyllas (Cramer, 1777), Dolyllas Hairstreak, Panama to Surinam & S Brazil
- Arawacus dumenilii (Godart, [1824]), Dumenil's Hairstreak, Honduras, Panama to Guianas, Trinidad
- Contrafacia bassania (Hewitson, 1868), White-etched Hairstreak , Mexico to Colombia
- Contrafacia ahola (Hewitson, 1867), Half-Blue Hairstreak, Mexico to Venezuela
- Contrafacia imma (Prittwitz, 1865), Imma Hairstreak, Mexico to S Brazil
- Kolana ligurina (Hewitson, 1874), Ligurina Hairstreak, E & W Mexico to Brazil
- Kolana lyde (Godman & Salvin, 1887), Lyde Hairstreak, E & W Mexico to Venezuela
- Satyrium fuliginosa fuliginosa (W. H. Edwards, 1861), Western Sooty Hairstreak, MORE INFO ...
- Satyrium fuliginosa tildeni Mattoon & Austin, 1998, Western Sooty Hairstreak, MORE INFO ...

Satyrium fuliginosa albolineatum Mattoon & Austin, 1998, Western Sooty Hairstreak, MORE INFO ...

Satyrium fuliginosa (W. H. Edwards, 1861) (E Klamath drainage segregate), Western Sooty Hairstreak, CSNM, Jackson Co., OR, to vic Weed, Siskiyou Co. CA

Satyrium semiluna semiluna Klots, 1930, Sagebrush Sooty Hairstreak, MORE INFO ...

Satyrium semiluna maculadistinctum Mattoon & Austin, 1998, Sagebrush Sooty Hairstreak, MORE INFO ...

Satyrium semiluna Klots, 1930 (Columbia Basin segregate), Sagebrush Sooty Hairstreak, Columbia Basin, S BC to N OR

Satyrium semiluna Klots, 1930 (Pine Mtn. Segregate), Sagebrush Sooty Hairstreak, Pine Mountain, Deschutes Co., OR; similar in Ochocos

Satyrium semiluna Klots, 1930 (C OR Cascades segregate), Sagebrush Sooty Hairstreak, Cascades of C OR (e.g., Three Creeks Meadow, Deschutes Co.)

Satyrium semiluna Klots, 1930 (Mt. Hood segregate), Sagebrush Sooty Hairstreak, Mt. Hood, Clackamas / Hood River Cos., OR

Satyrium behrii behrii (W. H. Edwards, 1870), Behr's Hairstreak, S CA, N through Sierra Nevada & Cascades to C WA

Satyrium behrii columbia (McDunnough, 1944), Behr's Hairstreak, [often considered a synonym of *S. b. behrii*], Chelan Co. WA, northward

Satyrium behrii (W. H. Edwards, 1870) (northern intermontane segregate), Behr's Hairstreak, NE OR, S ID, NE WY, N UT, NW CO

Satyrium behrii (W. H. Edwards, 1870) (southern intermontane segregate), Behr's Hairstreak, SE NV to C UT, S to C AZ

Satyrium behrii crossi (W. D. Field, 1938), Behr's Hairstreak, SE WY, E & S CO, N NM, far SE UT, far NE AZ

Satyrium acadica acadica (W. H. Edwards, 1862), Acadian Hairstreak, MORE INFO ...

Satyrium acadica montanensis (F. Watson & W. Comstock, 1920), Acadian Hairstreak, MORE INFO ...

Satyrium californica californica (W. H. Edwards, 1862), California Hairstreak, MORE INFO ...

Satyrium californica cygnus (W. H. Edwards, 1871), California Hairstreak, MORE INFO ...

Satyrium californica obscurafacies Austin, 1998, California Hairstreak, [= brashor], SE BC to NE NV

Satyrium californica wapiti M. Fisher, 2006, California Hairstreak, MORE INFO ...

Satyrium californica (W. H. Edwards, 1862) (CO-WY Front Range segregate), California Hairstreak, Front Range of CO & SE WY

Satyrrium sylvinus sylvinus (Boisduval, 1852), Sylvan Hairstreak, [MORE INFO ...](#)

Satyrrium sylvinus nootka M. Fisher, 1998, Sylvan Hairstreak, [MORE INFO ...](#)

Satyrrium sylvinus putnami (Hy. Edwards, 1877), Sylvan Hairstreak, [MORE INFO ...](#)

Satyrrium sylvinus megapallidum Austin, 1998, Sylvan Hairstreak, [MORE INFO ...](#)

Satyrrium sylvinus (Boisduval, 1852) (C Columbia Basin segregate), Sylvan Hairstreak, C Columbia Basin, WA

Satyrrium sylvinus itys (W. H. Edwards, 1882), Sylvan Hairstreak, [MORE INFO ...](#)

Satyrrium sylvinus desertorum (F. Grinnell, 1917), Sylvan Hairstreak, [MORE INFO ...](#)

Satyrrium sylvinus dryope (W. H. Edwards, 1870), Sylvan Hairstreak, [MORE INFO ...](#)

Satyrrium titus titus (Fabricius, 1793), Coral Hairstreak, [MORE INFO ...](#)

Satyrrium titus winteri (Gatrelle, 2004), Coral Hairstreak, [MORE INFO ...](#)

Satyrrium titus campus (Gatrelle, 2004), Coral Hairstreak, [MORE INFO ...](#)

Satyrrium titus watsoni (W. Barnes & Benjamin, 1926), Coral Hairstreak, [MORE INFO ...](#)

Satyrrium titus immaculosus (W. Comstock, 1913), Coral Hairstreak, [MORE INFO ...](#)

Satyrrium titus carrizozo R. Holland, 2010, Coral Hairstreak, [MORE INFO ...](#)

Satyrrium titus occidentalis Austin & J. Emmel, 1998, Coral Hairstreak, [MORE INFO ...](#)

Satyrrium edwardsii edwardsii (Grote & Robinson, 1867), Edwards' Hairstreak, [MORE INFO ...](#)

Satyrrium edwardsii meridionale Gatrelle, 2001, Edwards' Hairstreak, [MORE INFO ...](#)

Satyrrium calanus calanus (Hübner, [1809]), Banded Hairstreak, [MORE INFO ...](#)

Satyrrium calanus falacer (Godart, [1824]), Banded Hairstreak, [MORE INFO ...](#)

Satyrrium calanus godarti (W. D. Field, 1938), Banded Hairstreak, [MORE INFO ...](#)

Satyrrium calanus albidus Scott, 1981, Banded Hairstreak, [MORE INFO ...](#)

Satyrrium caryaevorus (McDunnough, 1942), Hickory Hairstreak, [MORE INFO ...](#)

Satyrrium kingi (Klots & Clench, 1952), King's Hairstreak, [MORE INFO ...](#)

Satyrrium liparops floridensis Gatrelle, 2001, Striped Hairstreak, [MORE INFO ...](#)

Satyrrium liparops liparops (Le Conte, 1833) (1793), Striped Hairstreak, [MORE INFO ...](#)

Satyrrium liparops strigosa (T. Harris, 1862), Striped Hairstreak, [MORE INFO ...](#)

Satyrrium liparops fletcheri (Michener & dos Passos, 1942), Striped Hairstreak, [MORE INFO ...](#)

Satyrium liparops aliparops (Michener & dos Passos, 1942), Striped Hairstreak, [MORE INFO](#) ...

Satyrium aurette auretorum (Boisduval, 1852), Gold-hunter's Hairstreak, [MORE INFO](#) ...

Satyrium aurette spadix (Hy. Edwards, 1881), Gold-hunter's Hairstreak, [MORE INFO](#) ...

Satyrium aurette fumosum J. Emmel & Mattoni, 1990, Gold-hunter's Hairstreak, [MORE INFO](#) ...

Satyrium tetra (W. H. Edwards, 1870) (Typical segregate), Mountain Mahogany Hairstreak, Baja California (N) to N CA

Satyrium tetra (W. H. Edwards, 1870) (Northern segregate), Mountain Mahogany Hairstreak, SE Oregon, NE CA, N W NV

Satyrium saepium saepium (Boisduval, 1852), Hedgerow Hairstreak, [MORE INFO](#) ...

Satyrium saepium chalcis (W. H. Edwards, 1869), Hedgerow Hairstreak, [= *fulvescens*]

Satyrium saepium rubrotenebrosum J. Emmel, T. Emmel & Mattoon, 1998, Hedgerow Hairstreak, [MORE INFO](#) ...

Satyrium saepium caliginosum J. Emmel, T. Emmel & Mattoon, 1998, Hedgerow Hairstreak, [MORE INFO](#) ...

Satyrium saepium chlorophora (Watson & W. Comstock, 1920), Hedgerow Hairstreak, [MORE INFO](#) ...

Satyrium saepium subaridum J. Emmel, T. Emmel & Mattoon, 1998, Hedgerow Hairstreak, [MORE INFO](#) ...

Satyrium saepium obscuroides Austin, 1998, Hedgerow Hairstreak, [MORE INFO](#) ...

Satyrium saepium latalinea Austin & Savage, 1998, Hedgerow Hairstreak, [MORE INFO](#) ...

Satyrium saepium provo (F. Watson & W. Comstock, 1920), Hedgerow Hairstreak, [MORE INFO](#) ...

Satyrium favonius favonius (J. E. Smith, 1797), Oak Hairstreak, [MORE INFO](#) ...

Satyrium favonius ontario (W. H. Edwards, 1868), Oak Hairstreak, [MORE INFO](#) ...

Satyrium favonius autolytus (W. H. Edwards, 1871), Oak Hairstreak, [MORE INFO](#) ...

Satyrium favonius violae (D. Stallings & Turner, 1947), Oak Hairstreak, [MORE INFO](#) ...

Satyrium ilavia (Beutenmüller, 1899), Ilavia Hairstreak, [MORE INFO](#) ...

Satyrium polingi polingi (W. Barnes & Benjamin, 1926), Poling's Hairstreak, [MORE INFO](#) ...

Satyrium polingi organensis Ferris, 1980, Poling's Hairstreak, [MORE INFO](#) ...

Phaeostrymon alcestis alcestis (W. H. Edwards, 1871), Soapberry Hairstreak, [MORE INFO](#) ...

- Phaeostrymon alcestis osleri (Dyar, 1904), Soapberry Hairstreak, MORE INFO ...
- Ocaria clenchi (K. Johnson, 1992), Clench's Hairstreak, Mexico, El Salvador
- Ocaria aholiba (Hewitson, 1867), Colombian Hairstreak, Costa Rica to Venezuela
- Ocaria arpoxis (Godman & Salvin, 1887), Blue-spotted Hairstreak, Mexico to Panama
- Ocaria petelina (Hewitson, 1877), Petelina Hairstreak, SE Mexico to Panama
- Ocaria thales (Fabricius, 1793), Thales Blackstreak, Mexico to S Brazil and Argentina
- Ocaria ocrisia (Hewitson, 1868), Black Hairstreak , Mexico to S Brazil and Argentina
- Chlorostrymon simaethis simaethis (Drury, 1773), Silver-banded Hairstreak , S Florida, (most) Greater & Lesser Antilles, S Am. to Argentina
- Chlorostrymon simaethis sarita (Skinner, 1895), Silver-banded Hairstreak , Mexico to Panama
- Chlorostrymon simaethis jago (W. Comstock & Huntington, 1943), Silver-banded Hairstreak , Jamaica
- Chlorostrymon maesites (Herrich-Schäffer, 1864), Amethyst Hairstreak, S Florida, Greater & (most) Lesser Antilles
- Chlorostrymon clenchi (W. Comstock & Huntington, 1943), Dominican Hairstreak, Dominica
- Chlorostrymon telea (Hewitson, 1868), Telea Hairstreak, S TX (stray) to S Brazil
- Chlorostrymon orbis K. Johnson & D. Smith, 1993, Orbis Hairstreak, Jamaica
- Magnastigma hirsuta (Prittwitz, 1865), Hirsuta Hairstreak, Costa Rica to Brazil
- Magnastigma elsa (Hewitson, 1877), Elsa Hairstreak, Mexico to Panama
- Cyanophrys goodsoni (Clench, 1946), Goodson's Greenstreak , S TX to Costa Rica
- Cyanophrys amyntor (Cramer, 1775), Amyntor Greenstreak, S Mexico to S Brazil
- Cyanophrys fusius (Godman & Salvin, 1887), Brown Greenstreak , E & W Mexico to Colombia
- Cyanophrys herodotus (Fabricius, 1793), Tropical Greenstreak, S TX, E & W Mexico to Argentina
- Cyanophrys miserabilis (Clench, 1946), Clench's Greenstreak , S TX to Costa Rica
- Cyanophrys crethona (Hewitson, 1874), Jamaican Greenstreak, Jamaica
- Cyanophrys hartii T. Turner & J. Miller, 1992, Dallas Mountain Greenstreak, Jamaica
- Cyanophrys longula (Hewitson, 1868), Mountain Greenstreak , E & W Mexico to Venezuela; one possible record for SE AZ

- Cyanophrys agricolor (Butler & H. Druce, 1872), Stained Greenstreak, E & W Mexico to Panama
- Callophrys affinis washingtonia Clench, 1944, Western Green Hairstreak, [MORE INFO ...](#)
- Callophrys affinis affinis (W. H. Edwards, 1862), Western Green Hairstreak, [MORE INFO ...](#)
- Callophrys affinis homoperplexa W. Barnes & Benjamin, 1923, Western Green Hairstreak, [MORE INFO ...](#)
- Callophrys affinis apama (W. H. Edwards, 1882), Western Green Hairstreak, [MORE INFO ...](#)
- Callophrys affinis albipalpus Gorelick, 2005, Western Green Hairstreak, [MORE INFO ...](#)
- Callophrys affinis chapmani Gorelick, 2005, Western Green Hairstreak, Sonora & Durango
- Callophrys [sheridanii] dumetorum (Boisduval, 1852), 'Coastal' Sheridan's Hairstreak, [MORE INFO ...](#)
- Callophrys sheridanii pseudodumetorum J. Emmel, T. Emmel & Mattoon, 1998, Sheridan's Hairstreak, [= nr. dumetorum of Warren '05], W OR, NW CA Siskiyou low elev.
- Callophrys sheridanii newcomeri Clench, 1963, Sheridan's Hairstreak, [MORE INFO ...](#)
- Callophrys sheridanii lemberti Tilden, 1963, Sheridan's Hairstreak, [MORE INFO ...](#)
- Callophrys sheridanii interrupta Austin, 1998, Sheridan's Hairstreak, [MORE INFO ...](#)
- Callophrys sheridanii comstocki Henne, 1940, 'Desert' Sheridan's Hairstreak, [MORE INFO ...](#)
- Callophrys sheridanii paradoxa Scott, 1986, Sheridan's Hairstreak, [MORE INFO ...](#)
- Callophrys sheridanii neoperplexa W. Barnes & Benjamin, 1923, Sheridan's Hairstreak, [MORE INFO ...](#)
- Callophrys sheridanii (W. H. Edwards, 1877) (W CO montane), Sheridan's Hairstreak, [MORE INFO ...](#)
- Callophrys sheridanii sheridanii (W. H. Edwards, 1877), Sheridan's Hairstreak, [MORE INFO ...](#)
- Callophrys sheridanii sacramento Scott, 2006, Sheridan's Hairstreak, [MORE INFO ...](#)
- Callophrys perplexa superperplexa J. Emmel, T. Emmel & Mattoon, 1998, Sheridan's Hairstreak, [apparently conspecific with C. sheridanii]
- Callophrys perplexa perplexa W. Barnes & Benjamin, 1923, Lotus Hairstreak, [MORE INFO ...](#)
- Callophrys perplexa oregonensis Gorelick, [1970], Lotus Hairstreak, [MORE INFO ...](#)
- Callophrys gryneus sweadneri (F. Chermock, 1945), 'Sweadner's' Juniper Hairstreak, [MORE INFO ...](#)

Callophrys gryneus smilacis (Boisduval & Le Conte, [1835]), Juniper Hairstreak, MORE INFO ...

Callophrys gryneus gryneus (Hübner, [1819]), Juniper Hairstreak, MORE INFO ...

Callophrys gryneus castalis (W. H. Edwards, 1871), 'Texas' Juniper Hairstreak, MORE INFO ...

Callophrys gryneus (Hübner, [1819]) (SE Coahuila segregate), 'Coahuila' Juniper Hairstreak, SE Coahuila

Callophrys gryneus siva (W. H. Edwards, 1874), 'Siva' Juniper Hairstreak, [= *clenchi*, *turkingtoni*]

Callophrys gryneus chalcosiva Clench, 1981, Juniper Hairstreak, MORE INFO ...

Callophrys gryneus (Hübner, [1819]) (Columbia Basin segregate), Juniper Hairstreak, [nr. *chalcosiva*]

Callophrys gryneus (Hübner, [1819]) (S Sierra Nevada on *Juniperus*), Juniper Hairstreak, S Sierra Nevada (Tulare Co.); on *Juniperus*; formerly "*barryi*"; similar in SB Mts

Callophrys gryneus nelsoni (Boisduval, 1869), 'Nelson's' Cedar Hairstreak, MORE INFO ...

Callophrys gryneus plicataria K. Johnson, 1976, Cedar Hairstreak, MORE INFO ...

Callophrys gryneus rosneri K. Johnson, 1976, Cedar Hairstreak, MORE INFO ...

Callophrys gryneus byrnei K. Johnson, 1976, Cedar Hairstreak, MORE INFO ...

Callophrys gryneus juniperaria (J. A. Comstock, 1925), Cedar Hairstreak, MORE INFO ...

Callophrys gryneus mansfieldi (Tilden, 1951), 'Mansfield's' Juniper Hairstreak, MORE INFO ...

Callophrys gryneus loki (Skinner, 1907), 'Loki' Juniper Hairstreak, Baja California Norte

Callophrys gryneus cedrosensis (J. Brown & Faulkner, 1989), 'Cedar Island' Juniper Hairstreak, MORE INFO ...

Callophrys gryneus (Hübner, [1819]) (Guadalupe Island segregate), 'Guadalupe Island' Juniper Hairstreak, "*nelsoni*"

Callophrys muii (Hy. Edwards, 1881), Muir's Hairstreak, MORE INFO ...

Callophrys thornei (J. Brown, 1983), Thorne's Hairstreak, MORE INFO ...

Callophrys hesseli hesseli (Rawson & Zeigler, 1950), Hessel's Hairstreak, MORE INFO ...

Callophrys hesseli angulata (Gatrelle, 2001), Hessel's Hairstreak, MORE INFO ...

Callophrys xami xami (Reakirt, [1867]), Xami Hairstreak, S AZ, W & C Mexico to Oaxaca

Callophrys xami texami Clench, 1981, Xami Hairstreak, S TX, far NE Mexico

- Callophrys scaphia* Clench, 1981, Chiapas Hairstreak, Chiapas and Guatemala
- Callophrys mcfarlandi* P. Ehrlich & Clench, 1960, Sandia Hairstreak, MORE INFO ...
- Callophrys dospassosi dospassosi* Clench, 1981, Dos Passos' Hairstreak, E Mexico
- Callophrys dospassosi searsi* Clench, 1981, Dos Passos' Hairstreak, W Mexico
- Callophrys estela* Clench, 1981, Estela Hairstreak, MORE INFO ...
- Callophrys spinetorum spinetorum* (Hewitson, 1867), Thicket Hairstreak, MORE INFO ...
- Callophrys spinetorum millerorum* Clench, 1981, Thicket Hairstreak, MORE INFO ...
- Callophrys johnsoni* (Skinner, 1904), Johnson's Hairstreak, MORE INFO ...
- Callophrys guatemalena* Clench, 1981, Guatemalan Hairstreak, MORE INFO ...
- Callophrys augustinus croesioides* (Scudder, 1876), Brown Elfin, MORE INFO ...
- Callophrys augustinus helenae* (dos Passos, 1943), Brown Elfin, MORE INFO ...
- Callophrys augustinus augustinus* (Westwood, 1852), Brown Elfin, MORE INFO ...
- Callophrys augustinus concava* (Austin, 1998), Brown Elfin, MORE INFO ...
- Callophrys augustinus iroides* (Boisduval, 1852), Brown Elfin, Baja California Norte
- Callophrys augustinus annetteae* (dos Passos, 1943), Brown Elfin, far NW Mexico
- Callophrys fotis fotis* (Strecker, [1878]), Desert Elfin, MORE INFO ...
- Callophrys fotis mojavenensis* (Austin, 1998), Desert Elfin, MORE INFO ...
- Callophrys mossii schryveri* (Cross, 1937), Moss' Elfin, MORE INFO ...
- Callophrys mossii* (Hy. Edwards, 1881) (NE Cascadian segregate), Moss' Elfin, NE Cascades (N OR, WA), E slope
- Callophrys mossii mossii* (Hy. Edwards, 1881), Moss' Elfin, MORE INFO ...
- Callophrys mossii* (Hy. Edwards, 1881) (W Oregon segregate), Moss' Elfin, [nr. mossii]
- Callophrys mossii marinensis* (J. Emmel, T. Emmel & Mattoon, 1998), Moss' Elfin, MORE INFO ...
- Callophrys mossii bayensis* R. Brown, 1969, Moss' Elfin, MORE INFO ...
- Callophrys mossii doudoroffi* (dos Passos, 1940), Moss' Elfin, MORE INFO ...
- Callophrys mossii hidakupa* (J. Emmel, T. Emmel & Mattoon, 1998), Moss' Elfin, MORE INFO ...
- Callophrys mossii windi* (Clench, 1943), Moss' Elfin, MORE INFO ...

Callophrys mossii (Hy. Edwards, 1881) (Siskiyou segregate), Moss' Elfin, Siskiyou Mts., SW OR, Mts.of NW CA

Callophrys mossii (Hy. Edwards, 1881) (Mt. Diablo segregate), Moss' Elfin, Mt. Diablo & vic., Contra Costa Co., CA

Callophrys polios polios (Cook & F. Watson, 1907), Hoary Elfin, MORE INFO ...

Callophrys polios obscurus (Ferris & M. Fisher, 1973), Hoary Elfin, MORE INFO ...

Callophrys polios (Cook & F. Watson, 1907) (NW montane segregate), Hoary Elfin, MORE INFO ...

Callophrys polios (Cook & F. Watson, 1907) (Puget Trough segregate), Hoary Elfin, Puget Trough, NW Washington

Callophrys polios (Cook & F. Watson, 1907) (C Oregon coastal segregate), Hoary Elfin, C Oregon coast (Lincoln Co.)

Callophrys polios maritima (J. Emmel, T. Emmel & Mattoon, 1998), Hoary Elfin, MORE INFO ...

Callophrys irus irus (Godart, [1824]), Frosted Elfin, MORE INFO ...

Callophrys irus arsace (Boisduval & Le Conte, [1835]), Frosted Elfin, MORE INFO ...

Callophrys irus hadros (Cook & F. Watson, 1907), Frosted Elfin, MORE INFO ...

Callophrys henrici henrici (Grote & Robinson, 1867), Henry's Elfin, MORE INFO ...

Callophrys henrici viridissima (Pavulaan, 1998), Henry's Elfin, MORE INFO ...

Callophrys henrici yahwehus (Gatrelle, 1999), Henry's Elfin, MORE INFO ...

Callophrys henrici margaretae (dos Passos, 1943), Henry's Elfin, MORE INFO ...

Callophrys henrici turneri (Clench, 1943), Henry's Elfin, MORE INFO ...

Callophrys henrici solatus (Cook & F. Watson, 1909), Henry's Elfin, MORE INFO ...

Callophrys lanoraieensis (Sheppard, 1934), Bog Elfin, MORE INFO ...

Callophrys niphon niphon (Hübner, [1819]) (1793), Eastern Pine Elfin, MORE INFO ...

Callophrys niphon clarki (T. Freeman, 1938), Eastern Pine Elfin, MORE INFO ...

Callophrys eryphon (Boisduval, 1852) (northeastern segregate), Western Pine Elfin, MORE INFO ...

Callophrys eryphon purpurascens (Austin & J. Emmel, 1998), Western Pine Elfin, MORE INFO ...

Callophrys eryphon sheltonensis (F. Chermock & Frechin, [1949]), Western Pine Elfin, MORE INFO ...

Callophrys eryphon eryphon (Boisduval, 1852), Western Pine Elfin, MORE INFO ...
Callophrys eryphon pallescens (Austin, 1998), Western Pine Elfin, MORE INFO ...
Callophrys eryphon fusca (Austin, 1998), Western Pine Elfin, MORE INFO ...
Bistonina erema (Hewitson, 1867), Erema Hairstreak, Guatemala, Panama
Cupathecla cupentus (Stoll, 1781), Cupentus Hairstreak, SE Mexico to Guianas, N Brazil
Thestius epopea (Hewitson, 1870), Epopea Hairstreak, Costa Rica to Peru
Lathecla latagus (Godman & Salvin, 1887), Latagus Hairstreak, SE Mexico to...
Allosmaitia coelebs (Herrich-Schäffer, 1862), Cuban Hairstreak, Cuba
Allosmaitia fidena (Hewitson, 1867), Fidena Hairstreak, Hispaniola and Puerto Rico
Allosmaitia piplea (Godman & Salvin, 1896), Piplea Hairstreak, S Lesser Antilles (St. Vincent, Grenada, St. Lucia, Dominica)
Allosmaitia strophius (Godart, [1824]), Strophius Hairstreak, S TX, E & W Mexico to S Brazil
Allosmaitia myrtusa (Hewitson, 1867), Myrtusa Hairstreak, Panama to Bolivia
Laothus erybathis (Hewitson, 1867), Erybathis Hairstreak, E & W Mexico to Colombia
Laothus oceia (Godman & Salvin, 1887), Oceia Hairstreak, [=laothoe], SE Mexico to Colombia
Laothus barajo (Reakirt, [1867]), Barajo Hairstreak, SE Mexico to Panama
Janthecla rocena (Hewitson, 1867), Rocena Hairstreak, MX to S Brazil
Janthecla janthodonia (Dyar, 1918), Janthodonia Hairstreak, S MX, Guatemala, Belize
Janthecla janthina (Hewitson, 1867), Janthina Hairstreak, MX to Venezuela
Janthecla cydonia (H. H. Druce, 1890), Cydonia Hairstreak, Costa Rica to Colombia
Lamprospilus collucia (Hewitson, 1877), Two-toned Groundstreak, Mexico to Ecuador
Lamprospilus coelicolor (Butler & H. Druce, 1872), Central American Groundstreak, Mexico to Bolivia
Arzecla arza (Hewitson, 1874), Single-banded Groundstreak, Mexico to S Brazil
Arzecla tarpa (Godman & Salvin, 1887), Double-banded Groundstreak, Mexico to Panama
Arzecla calatia (Hewitson, 1873), Nicaraguan Groundstreak, Mexico, Guatemala, Nicaragua
Arzecla sethon (Godman & Salvin, 1887), Large Groundstreak, Mexico to Panama
Arzecla paralus (Godman & Salvin, 1887), Paralus Groundstreak, Guatemala to Venezuela
Arzecla taminella (Schaus, 1902), Taminella Groundstreak, Mexico to S Brazil

- Arumecla galliena (Hewitson, 1877), Red-based Groundstreak, Mexico to Ecuador
- Arumecla nisaee (Godman & Salvin, 1887), Nisaee Groundstreak, Costa Rica, Panama
- Camissecla charichlorus (Butler & H. Druce, 1872), Charichlorus Groundstreak, Honduras to Colombia
- Camissecla vespasianus (Butler & H. Druce, 1872), Vespasianus Groundstreak, Mexico to Costa Rica
- Camissecla melma (Schaus, 1913), Melma Groundstreak, Costa Rica and Panama
- Electrostrymon hugon (Godart, [1824]), Ruddy Hairstreak, [= sangala, = cyphara] S TX to Venezuela
- Electrostrymon joya (Dognin, 1895), Muted Hairstreak, [= canus] S TX to Peru
- Electrostrymon dominicana (Lathy, 1904), Dominican Hairstreak, Dominica
- Electrostrymon pan (Drury, 1773), Pan Hairstreak, Jamaica
- Electrostrymon angelia angelia (Hewitson, 1874), Fulvous Hairstreak, S Florida and Cuba
- Electrostrymon angelia dowi (Clench, 1941), Fulvous Hairstreak, Bahamas & Turks and Caicos Islands
- Electrostrymon angelia pantoni (W. Comstock & Huntington, 1943), Fulvous Hairstreak, Jamaica
- Electrostrymon angelia boyeri (W. Comstock & Huntington, 1943), Fulvous Hairstreak, Hispaniola to St. Croix
- Electrostrymon angerona (Godman & Salvin, 1896), Angerona Hairstreak, Lesser Antilles
- Electrostrymon denarius (Butler & H. Druce, 1872), Coppery Groundstreak, E Mexico to Guatemala
- Electrostrymon guzanta (Schaus, 1902), Orange-crescent Groundstreak, W and S TX to Nicaragua
- Rubroserrata mathewi (Hewitson, 1874), Mathew's Groundstreak, Mexico to Panama
- Ziegleria hesperitis (Butler & H. Druce, 1872), Hesperitis Groundstreak, Mexico to S Brazil
- Ziegleria hoffmani K. Johnson, 1993, Hoffmann's Groundstreak, Mexico to Costa Rica
- Ziegleria ceromia (Hewitson, 1877), Ceromia Groundstreak, Mexico to Venezuela
- Kisutam micandriana (K. Johnson, 1992), Micandriana Groundstreak, Mexico to Nicaragua
- Kisutam syllis (Godman & Salvin, 1887), Sky-blue Groundstreak, S TX (rare stray), E & W Mexico to S Brazil
- Calycopis tamos (Godman & Salvin, 1887), Tamos Hairstreak, [possibly a synonym of C. matho]

- Calycopis clarina* (Hewitson, 1874), White-striped Groundstreak, [MORE INFO ...](#)
- Calycopis atnius* (Herrich-Schäffer, [1853]), Atnius Groundstreak, [MORE INFO ...](#)
- Calycopis mimas* (Godman & Salvin, 1887), Mimas Groundstreak, [MORE INFO ...](#)
- Calycopis demonassa* (Hewitson, 1868), Shining Groundstreak, [MORE INFO ...](#)
- Calycopis buphonia* (Hewitson, 1868), Buphonia Groundstreak, Costa Rica to N Brazil
- Calycopis calus* (Godart, [1824]), Calus Groundstreak , [MORE INFO ...](#)
- Calycopis caesaries* (Druce, 1907), Caesaries Groundstreak, Belize to N Brazil
- Calycopis sullivanii* Robbins & Duarte, 2005, Sullivan's Hairstreak, Atlantic coast of Panama and Costa Rica
- Calycopis cerata* (Hewitson, 1877), Cerata Groundstreak, [MORE INFO ...](#)
- Calycopis cecrops* (Fabricius, 1793), Red-banded Hairstreak, E USA, New Providence Island, Bahamas
- Calycopis isobea* (Butler & H. Druce, 1872), Dusky-blue Groundstreak , [MORE INFO ...](#)
- Calycopis quintana* (Johnson, 1991), Yucatan Groundstreak, Yucatan Peninsula of Mexico and N Belize
- Calycopis bactra* (Hewitson, 1877), Hewitson's Groundstreak, [MORE INFO ...](#)
- Calycopis bellera* (Hewitson, 1877), Bellera Groundstreak, Panama, Surinam, Brazil
- Calycopis xeneta* (Hewitson, 1877), Brilliant Groundstreak, [MORE INFO ...](#)
- Calycopis thama* (Hewitson, 1877), Thama Hairstreak, Costa Rica to Colombia
- Calycopis origo* (Godman & Salvin, 1887), Origo Groundstreak, (= *susanna*)
- Calycopis drusilla* Field, 1967, Drusilla Groundstreak, [MORE INFO ...](#)
- Calycopis trebula* (Hewitson, 1868), Trebula Groundstreak, [MORE INFO ...](#)
- Calycopis pisis* (Godman & Salvin, 1887), Pisis Groundstreak, [MORE INFO ...](#)
- Calycopis orcillula* (Strand, 1916), Strand's Groundstreak, [MORE INFO ...](#)
- Strymon melinus melinus* Hübner, 1818, Gray Hairstreak, [MORE INFO ...](#)
- Strymon melinus humuli* (T. Harris, 1842), Gray Hairstreak, [MORE INFO ...](#)
- Strymon melinus franki* W. D. Field, 1938, Gray Hairstreak, [MORE INFO ...](#)
- Strymon melinus setonia* McDunnough, 1927, Gray Hairstreak, [MORE INFO ...](#)
- Strymon melinus atrofasciata* McDunnough, 1921, Gray Hairstreak, [MORE INFO ...](#)
- Strymon melinus pudica* (Hy. Edwards, 1877), Gray Hairstreak, Baja California



Strymon melinus clarionensis (Heid, 1933), 'Clarion Island' Gray Hairstreak, [Apparently a species-level taxon], Clarion I., Colima, Mexico

Strymon avalona (W. G. Wright, 1905), Avalon Scrub-Hairstreak, Santa Catalina Island, S CA

Strymon rufofusca (Hewitson, 1877), Red-crescent Scrub-Hairstreak, S TX, E & W Mexico to Paraguay, Lesser Antilles

Strymon albata (C. Felder & R. Felder, 1865), White Scrub-Hairstreak, [= *sedecia*] S TX to Venezuela

Strymon alea (Godman & Salvin, 1887), Lacey's Scrub-Hairstreak, [= *laceyi*] TX to Venezuela

Strymon bebrycia (Hewitson, 1868), Red-lined Scrub-Hairstreak, SE AZ to S TX to Costa Rica

Strymon yojoa (Reakirt, [1867]), Yojoa Scrub-Hairstreak, SE AZ, S TX to S Brazil

Strymon mulucha (Hewitson, 1867), Mottled Scrub-Hairstreak, Mexico to S Brazil

Strymon cestri (Reakirt, [1867]), Tailless Scrub-Hairstreak, SE AZ, S TX to S Brazil

Strymon astiocha (Prittwitz, 1865), Gray-spotted Scrub-Hairstreak, Mexico to S Brazil

Strymon martialis (Herrich-Schäffer, 1864), Martial Scrub-Hairstreak, S Florida, Bahamas, Cuba, Jamaica, Caymans

Strymon christophei (W. Comstock & Huntington, 1943), Hispaniolan Scrub-hairstreak, Hispaniola

Strymon acis bartrami (W. Comstock & Huntington, 1943), Caribbean Scrub-Hairstreak, S Florida

Strymon acis casasi (W. Comstock & Huntington, 1943), Caribbean Scrub-Hairstreak, Cuba, Caymans

Strymon acis armouri Clench, 1943, Caribbean Scrub-Hairstreak, Great Bahama Bank (Andros to Long), possibly Crooked I.

Strymon acis (Drury, 1773) (*Great Inagua segregate*), Caribbean Scrub-Hairstreak, Great Inagua Island, Bahamas

Strymon acis leucosticha Clench, 1943, Caribbean Scrub-Hairstreak, Middle Caicos Island (at least)

Strymon acis gossei (W. Comstock & Huntington, 1943), Caribbean Scrub-Hairstreak, Jamaica

Strymon acis petioni (W. Comstock & Huntington, 1943), Caribbean Scrub-Hairstreak, Hispaniola

- Strymon acis mars* (Fabricius, 1776), Caribbean Scrub-Hairstreak, Puerto Rico (include. Mona & Culebran Is.) and Virgin Islands
- Strymon acis acis* (Drury, 1773), Caribbean Scrub-Hairstreak, Lesser Antilles (St. Martin to Dominica)
- Strymon bazochii bazochii* (Godart, [1824]), Lantana Scrub-Hairstreak, S TX, E & W Mexico to Argentina
- Strymon bazochii gundlachianus* M. Bates, 1935, Lantana Scrub-Hairstreak, Cuba, Jamaica, Hispaniola
- Strymon columella* (Fabricius, 1793), Columella Scrub-Hairstreak, Culebran Is., Virgin Is., St. Kitts to Antigua
- Strymon istapa arecibo* (W. Comstock & Huntington, 1943), Mallow Scrub-Hairstreak, Puerto Rico
- Strymon istapa cybira* (Hewitson, 1874), Mallow Scrub-Hairstreak, Bahamas, Greater Antilles, (Dry Tortugas?)
- Strymon istapa modesta* (Maynard, 1873), Mallow Scrub-Hairstreak, S Florida
- Strymon istapa istapa* (Reakirt, [1867]), Mallow Scrub-Hairstreak, S TX, E & W Mexico to Argentina
- Strymon istapa clenchi* Austin & J. Emmel, 1998, Mallow Scrub-Hairstreak, Baja California
- Strymon istapa clarionica* (Vázquez, 1958), Mallow Scrub-Hairstreak, Clarion Island; Relationship to *S. i. clenchi* requires study
- Strymon (istapa) socorroica* (Vázquez, 1958), 'Socorro Island' Mallow Scrub-Hairstreak, [Apparently a species-level taxon], Socorro I., Colima, Mexico
- Strymon bubastus ponce* (W. Comstock & Huntington, 1943), Disjunct Scrub-Hairstreak, Mona I., Puerto Rico, Virgin Is., Lesser Antilles S to Grenada
- Strymon toussainti* (W. Comstock & Huntington, 1943), Toussaint's Scrub-Hairstreak, Hispaniola, E Cuba
- Strymon andrewi* K. Johnson & Matusik, 1988, Andrew's Scrub-Hairstreak, SW Dominican Republic
- Strymon amonensis* D. Smith, K. Johnson, J. Y. Miller & McKenzie, 1991, Mona Island Scrub-Hairstreak, Mona Island
- Strymon limenia* (Hewitson, 1868), Limenia Scrub-Hairstreak, S Florida, Greater Antilles, St. Thomas
- Strymon serapio* (Godman & Salvin, 1887), Bromeliad Scrub-Hairstreak, S TX (stray) to S Brazil
- Strymon gabatha* (Hewitson, 1870), Great Scrub-Hairstreak, Mexico to Peru

Strymon monopeteinus Schwartz & J. Y. Miller, 1985 , Shining Scrub-Hairstreak, Hispaniola

Strymon megarus (Godart, [1824]), Megarus Scrub-Hairstreak , Mexico to S Brazil

Strymon ziba (Hewitson, 1868), Ziba Scrub-Hairstreak, Mexico to S Brazil and Argentina

Tmolus echion echiolus (Draudt, 1920), Red-spotted Hairstreak, Hawaii, Mexico to S Brazil

Tmolus crolinus Butler & H. Druce, 1872, Crolinus Hairstreak, Costa Rica to Venezuela

Tmolus cydrara (Hewitson, 1868), Cydrara Hairstreak, Mexico to S Brazil

Tmolus mutina (Hewitson, 1867), Mutina Midistreak, Costa Rica to Guianas & N Brazil

Nicolaea dolium (H. H. Druce, 1907), Dolium Hairstreak, Mexico to S Brazil

Nicolaea velina (Hewitson, 1868), Garnet-patched Hairstreak, [= phobe] Mexico to Brazil

Nicolaea heraldica (Dyar, 1914), Heraldica Hairstreak, Mexico to C Brazil

Nicolaea ophia (Hewitson, 1868), Ophia Hairstreak, Nicaragua to S Brazil

Ministrymon leda (W. H. Edwards, 1882), Leda Ministreak, SW USA to C Mexico

Ministrymon clytie (W. H. Edwards, 1877), Clytie Ministreak , S TX (?S AZ) to Costa Rica

Ministrymon arola (Hewitson, 1868), Arola Ministreak, [= coronta?] Mexico to Costa Rica

Ministrymon zilda (Hewitson, 1873), Square-spotted Ministreak, Mexico to S Brazil

Ministrymon inoa (Godman & Salvin, 1887), Veracruzian Ministreak, Mexico to Venezuela

Ministrymon phrutus (Geyer, 1832), Purple-webbed Ministreak, Mexico to Brazil

Ministrymon azia (Hewitson, 1873) (1860), Gray Ministreak, [= guacanagari], SE AZ & S TX (strays) to Argentina, Antilles

Ministrymon cleon (Fabricius, 1775), Cleon Ministreak, Costa Rica to S Brazil

Ministrymon una scopas (Godman & Salvin, 1887), Pale Ministreak, W & S Mexico at least to Costa Rica

Gargina gargophia (Hewitson, 1877), Gargophia Hairstreak, Mexico to Brazil

Gargina thyesta (Hewitson, 1869), Thyesta Hairstreak, Costa Rica to Brazil

Gargina caninius (H. H. Druce, 1907), Caninus Hairstreak, Mexico to S Brazil

Gargina gnosis (Hewitson, 1868), Gnosis Hairstreak, Mexico to Argentina

Gargina emessa (Hewitson, 1867), Emessa Hairstreak, Nicaragua to Brazil

Gargina thoria (Hewitson, 1869), Thoria Hairstreak, Mexico to Venezuela

Siderus leucophaeus (Hübner, [1813]), White-spotted Hairstreak, Guatemala to Brazil

Siderus guapila (Schaus, 1913), Schaus' Hairstreak, Costa Rica

Siderus philinna (Hewitson, 1868), Bold-spotted Hairstreak, MX to S Brazil

Theclopsis demeia (Hewitson, 1874), Demeia Hairstreak, Nicaragua to Ecuador

Theclopsis leos (Schaus, 1913), Leos Hairstreak, Honduras, Costa Rica

Theclopsis epidius (Godman & Salvin, 1887), Epidius Hairstreak, Panama to Colombia

Theclopsis gargara (Hewitson, 1868), Gargara Hairstreak, Colombia to S Brazil

Theclopsis mycon (Godman & Salvin, 1887), Mycon Hairstreak, MX to Venezuela

Ostrinotes halciones (Butler & H. Druce, 1872), Halciones Hairstreak, MX to Brazil

Ostrinotes keila (Hewitson, 1869), Keila Hairstreak, MX to Colombia

Ostrinotes purpuriticus (H. H. Druce, 1907), Cryptic Hairstreak, SE Mexico to Colombia

Ostrinotes empusa (Hewitson, 1867), Empusa Hairstreak, Panama to Argentina

Strephonota tephraeus (Geyer, 1837), Pearly-gray Hairstreak, S Texas to Brazil

Strephonota sphinx (Fabricius, 1775), Sphinx Hairstreak, Panama to Brazil

Strephonota azurinus (Butler & H. Druce, 1872), Azurinus Hairstreak, Costa Rica & Panama

Strephonota syedra (Hewitson, 1867), Syedra Hairstreak, Mexico to Brazil

Strephonota ambrax (Westwood, 1852), Ambrax Hairstreak, Mexico to Brazil

Strephonota malvania (Hewitson, 1867), Malvania Hairstreak, Costa Rica & Panama

Strephonota ericeta (Hewitson, 1867), Ericeta Hairstreak, Guatemala to Colombia

Panthiades bitias (Cramer, 1777), Bitias Hairstreak, Mexico to Brazil

Panthiades ochus (Godman & Salvin, 1887), Ochus Hairstreak, Mexico to Ecuador

Panthiades bathildis (C. Felder & R. Felder, 1865), Zebra-striped Hairstreak, Mexico to N Brazil

Panthiades phaleros (Linnaeus, 1767), Phaleros Hairstreak, SE Mexico to S Brazil

Oenomaus ortygnus (Cramer, 1779), Aquamarine Hairstreak, Mexico to Brazil

Oenomaus atesa (Hewitson, 1867), Atesa Hairstreak, S Mexico to Brazil

Oenomaus atena (Hewitson, 1867), Atena Hairstreak, Guatemala to Amazonas

Oenomaus cyanovenata (D'Abrera, 1995), Veined Hairstreak, Panama to Guianas

Porthocla melleus (H. H. Druce, 1907), Melleus Hairstreak, Costa Rica to Brazil

Porthocla annette Faynel & Robbins, 2011, Annette's Hairstreak, Panama to Amazonas

- Porthecla porthura* (H. H. Druce, 1907), *Porthura* Hairstreak, Honduras to W Ecuador
- Thepytus epytus* (Godman & Salvin, 1887), *Epytus* Hairstreak, Panama to Ecuador
- Thepytus arindela* (Hewitson, 1874), *Arindela* Hairstreak, S Mexico to Panama
- Thepytus echelta* (Hewitson, 1867), *Velvet* Hairstreak, S Mexico to Brazil
- Parrhasius polibetes* (Stoll, 1781), *Black-spot* Hairstreak, E & W Mexico to Uruguay & Argentina
- Parrhasius orgia* (Hewitson, 1867), *Variable* Hairstreak, E & W Mexico to S Brazil & Argentina
- Parrhasius m-album* (Boisduval & Le Conte, [1833]) (1793), *White-M* Hairstreak, S. Ontario CAN, E US from NH & WI to TX
- Parrhasius moctezuma* (Clench, 1971), *Mexican-M* Hairstreak, Mexico to Nicaragua
- Parrhasius urraca* Nicolay, 1979, *Panamanian-M* Hairstreak, Costa Rica & Panama
- Parrhasius selika* (Hewitson, 1874), *Brazilian-M* Hairstreak, Colombia to Brazil
- Michaelus phoenissa* (Hewitson, 1867), *Two-banded* Hairstreak, SE Mexico to N Brazil & Peru
- Michaelus jebus* (Godart, [1824]), *Variegated* Hairstreak, E & W Mexico to S Brazil & Argentina
- Michaelus thordesa* (Hewitson, 1867), *Thordesa* Hairstreak, SE Mexico to Bolivia & SE Brazil
- Michaelus hecate* (Godman & Salvin, 1887), *Hecate* Hairstreak, E & W Mexico to Costa Rica
- Michaelus ira* (Hewitson, 1867), *Ira* Hairstreak, E & W Mexico to SE Brazil & Argentina
- Michaelus joseph* Robbins 2010, *Joseph* Hairstreak, Costa Rica to W Amazon (Peru) & Brazil
- Ignata gadira* (Hewitson, 1867), *Gadira* Hairstreak, Mexico to Panama
- Ignata caldas* Robbins 2010, *Caldas* Hairstreak, Mexico to SE Peru in the Amazon Basin
- Ignata norax* (Godman & Salvin, 1887), *Norax* Hairstreak, S Mexico to Brazil
- Olynthus narbal* (Stoll, 1790), *Narbal* Hairstreak, Panama to Peru, Guianas
- Olynthus hypsea* (Godman & Salvin, 1887), *Hypsea* Hairstreak, Panama to Venezuela
- Olynthus punctum* (Herrich-Schäffer, [1853]), *Punctum* Hairstreak, [= *stigmatos*], Panama to Guianas & C Brazil
- Hypostrymon critola* (Hewitson, 1874), *Sonoran* Hairstreak, S AZ, BCS, W Mexico to GRO
- Hypostrymon asa* (Hewitson, 1868), *Asa* Hairstreak, Guatemala to Brazil

Apuecla maeonis (Godman & Salvin, 1887), Maeonis Hairstreak, Mexico to Panama

Apuecla upupa (H. H. Druce, 1907), Upupa Hairstreak, SE Mexico to Ecuador and Venezuela

Nesiostrymon calchinia (Hewitson, 1868), Calachinia Hairstreak, Mexico to Argentina

Nesiostrymon celida celida (Lucas, 1857), Caribbean Hairstreak, Cuba & Isla de Juventud

Nesiostrymon celida aibonito (W. Comstock & Huntington, 1943), Caribbean Hairstreak, N Hispaniola & Puerto Rico

Nesiostrymon celida baorucoensis K. Johnson, 1991, Caribbean Hairstreak, SW Dominican Republic

Nesiostrymon shoumatoffi (W. Comstock & Huntington, 1943), Shoumatoff's Hairstreak, Jamaica

Nesiostrymon celona (Hewitson, 1874), Celona Hairstreak, Mexico to Brazil

Nesiostrymon dodava (Hewitson, 1877), Dodava Hairstreak, Mexico to Venezuela

Aubergina vanessoides (Prittwitz, 1865), Vanessoides Hairstreak, Colombia to Brazil

Aubergina paetus (Godman & Salvin, 1887), Paetus Hairstreak, Mexico to Colombia

Aubergina hicetas (Godman & Salvin, 1887), Hicetas Hairstreak, Mexico to Colombia

Aubergina hesychia (Godman & Salvin, 1887), Hesychia Hairstreak, Costa Rica to Brazil

Terenthina terentia (Hewitson, 1868), Terentia Hairstreak, Costa Rica to Brazil

Iaspis andersoni Robbins 2010, Anderson's Hairstreak, Mexico to N Colombia & Isla Coiba

Iaspis castimonia (H. H. Druce, 1907), Castimonia Hairstreak, Mexico to Panama

Iaspis temesa (Hewitson, 1868), Temesa Hairstreak, SE Mexico to S Brazil, Guianas

Celmia celmus (Cramer, 1775), Celmus Hairstreak, Mexico to Brazil and Paraguay

Celmia conoveria (Schaus, 1902), Conoveira Hairstreak, Mexico to Brazil

Dicya dicaea (Hewitson, 1874), Dicaea Hairstreak, Mexico to Brazil

Dicya carnica (Hewitson, 1873), Carnica Hairstreak, Mexico to Argentina

Dicya iambe (Godman & Salvin, 1887), Iambe Hairstreak, Costa Rica to Peru

Dicya lucagus (Godman & Salvin, 1887), Lucagus Hairstreak, Mexico

Dicya lollia (Godman & Salvin, 1887), Lollia Hairstreak, Panama

Erora laeta (W. H. Edwards, 1862), Early Hairstreak, SE CAN and NE US, from ME to N GA

Erora quaderna (Hewitson, 1868), Arizona Hairstreak, [= sanfordi], C & SE AZ, SW NM, W TX, E & W Mexico to Oaxaca

Erora caudata L. Miller, 1980, Chiapas Hairstreak, Chiapas
Erora subflorens (Schaus, 1913), Emerald Hairstreak, Mexico to Venezuela
Erora nitetis (Godman & Salvin, 1887), Nitetis Hairstreak , Mexico to Panama
Erora aura (Godman & Salvin, 1887), Aura Hairstreak, Mexico to W Colombia
Erora carla (Schaus, 1902), Carla Hairstreak, Mexico to Brazil
Erora gabina (Godman & Salvin, 1887), Gabina Hairstreak, Mexico to Brazil
Erora opisena (H. Druce, 1912), Opisena Hairstreak, Mexico to Venezuela
Erora badeta (Hewitson, 1873), Badeta Hairstreak, Costa Rica to Brazil
Erora muridosca (Dyar, 1918), Muridosca Hairstreak, Mexico, El Salvador
Erora lampetia (Godman & Salvin, 1887), Lampetia Hairstreak, Costa Rica to Brazil
Semonina ares (Godman & Salvin, 1887), Ares Hairstreak, Panama to W Ecuador
Semonina semones (Godman & Salvin, 1887), Semones Hairstreak, Mexico to Brazil
Chalybs janias (Cramer, 1779), Janias Greenstreak, Mexico to Brazil
Chalybs hassan (Stoll, 1790), Hassan Greenstreak, Mexico to Brazil
Symbiopsis tanais (Godman & Salvin, 1887), Tanais Hairstreak, Costa Rica to W Ecuador
Symbiopsis panamensis (Draudt, 1920), Panama Hairstreak, Costa Rica, Panama
Symbiopsis rickmani (Schaus, 1902), Rickman's Hairstreak, Nicaragua to Colombia

Subfamily Polyommatae Swainson, 1827, Blues,

Lampides boeticus (Linnaeus, 1767), Pea Blue, Introduced to Hawaii
Leptotes cassius cassioides (Boisduval, 1870), Cassius Blue, [= chadwicki], Windward and some Leeward Islands
Leptotes cassius catilina (Fabricius, 1793), Cassius Blue, Culebra, Virgin Is. to St. Martin
Leptotes cassius theonus (Lucas, 1857), Cassius Blue, FL, Bahamas, Greater Antilles, Caymans
Leptotes cassius cassidula (Boisduval, 1870), Cassius Blue, [= striata], S TX, E & W Mexico to Panama
Leptotes cassius (Cramer, 1775) (BCS segregate), Cassius Blue, Baja California Sur
Leptotes marina (Reakirt, 1868), Marine Blue, MORE INFO ...

Leptotes perkinsae Kaye, 1931, Perkins' Blue, Jamaica

Leptotes hedgesi Schwartz & K. Johnson, 1992, Hedges' Blue, Cuba

Leptotes idealus K. Johnson & Matusik, 1988, Ideal Blue, SW Hispaniola

Brephidium exilis exilis (Boisduval, 1852), Western Pygmy-Blue, MORE INFO ...

Brephidium exilis yucateca Clench, 1970, 'Yucatan Peninsula' Western Pygmy-Blue, Yucatan Peninsula

Brephidium exilis thompsoni Carpenter & Lewis, 1943, 'Cayman Islands' Western Pygmy-Blue, Cayman Islands

Brephidium exilis isophthalma (Herrich-Schäffer, 1862), 'Antillean' Western Pygmy-Blue, Bahamas, Cuba, Jamaica, Hispaniola

Brephidium pseudofea pseudofea (Morrison, 1873), Eastern Pygmy-Blue, MORE INFO ...

Brephidium pseudofea insularis Pavulaan & Gatrell, 1999, Eastern Pygmy-Blue, MORE INFO ...

Zizina otis otis (Fabricius, 1787), Lesser Grass Blue, Introduced to the Hawaiian Islands

Zizula cyna (W. H. Edwards, 1881), Cyna Blue, MORE INFO ...

Cupido comyntas comyntas (Godart, [1824]), Eastern Tailed-Blue, SE Canada, E USA to E CO, N & NE TX

Cupido comyntas texana (F. Chermock, 1945), Eastern Tailed-Blue, C & W TX, S NM, SE AZ, S to Ecuador

Cupido comyntas sissona (W. G. Wright, 1905), Eastern Tailed-Blue, [= pacnowe], Baja to W WA + NE OR, E WA, N ID, SE BC

Cupido amyntula montanorum (Austin, 1998), Western Tailed-Blue, MORE INFO ...

Cupido amyntula amyntula (Boisduval, 1852), Western Tailed-Blue, Baja California Norte

Cupido amyntula nesiotis (J. Emmel & T. Emmel, 1998), Western Tailed-Blue, MORE INFO ...

Cupido amyntula herri (F. Grinnell, 1901), Western Tailed-Blue, MORE INFO ...

Cupido amyntula valeriae (Clench, 1944), Western Tailed-Blue, MORE INFO ...

Cupido amyntula albrighti (Clench, 1944), Western Tailed-Blue, MORE INFO ...

Cupido amyntula maritima (Leblanc, 1985), Western Tailed-Blue, MORE INFO ...

Celastrina lucia lucia (W. Kirby, 1837), Lucia Azure, MORE INFO ...

Celastrina lucia lumarco Scott, 2006, Lucia Azure, MORE INFO ...

Celastrina lucia (W. Kirby, 1837) (C WA segregate), Lucia Azure, MORE INFO ...



Celastrina echo echo (W. H. Edwards, 1864), Pacific Azure, [MORE INFO ...](#)

Celastrina echo nigrescens (J. Fletcher, 1903), Northwestern Azure, [MORE INFO ...](#)

Celastrina echo sidara (Clench, 1944), Rocky Mountain Azure, [MORE INFO ...](#)

Celastrina echo cinerea (W. H. Edwards, 1883), Southwestern Azure, [MORE INFO ...](#)

Celastrina echo (W. H. Edwards, 1864) (BCS segregate), Baja Azure, [MORE INFO ...](#)

Celastrina [echo] gozora (Boisduval, 1870), Mexican Azure, [MORE INFO ...](#)

Celastrina ladon (Cramer, 1780), Spring Azure, [MORE INFO ...](#)

Celastrina idella D. Wright & Pavulaan, 1999, Holly Azure, [MORE INFO ...](#)

Celastrina serotina Pavulaan & D. Wright, 2005, Cherry Gall Azure, [MORE INFO ...](#)

Celastrina neglecta (W. H. Edwards, 1862), Summer Azure, [MORE INFO ...](#)

Celastrina humulus Scott & D. Wright, 1998, Hops Azure, [MORE INFO ...](#)

Celastrina neglectamajor Opler & Krizek, 1984, Appalachian Azure, [MORE INFO ...](#)

Celastrina nigra (W. Forbes, 1960), Dusky Azure, [MORE INFO ...](#)

Udara blackburni (Tuely, 1878), Hawaiian Blue, Endemic to Hawaii

Pseudochrysops bornoi yateritas D. Smith & Hernández, 1992, Antillean Blue, SE Cuba

Pseudochrysops bornoi bornoi (W. Comstock & Huntington, 1943), Antillean Blue, Hispaniola

Pseudochrysops bornoi escobioi Schwartz, 1987, Antillean Blue, Puerto Rico

Cyclargus thomasi bethunebakeri (W. Comstock & Huntington, 1943), Miami Blue, S Florida, Bimini Islands

Cyclargus thomasi thomasi (Clench, 1941), Miami Blue, Great Bahama Bank

Cyclargus thomasi bahamensis (Clench, [1943]), Miami Blue, Crooked I., Acklins I., Plana Cays, Ragged I.

Cyclargus thomasi clenchi (L. Miller, Simon & Harvey, 1992), Miami Blue, Mayaguana, Gr. & Little Iguana, Turks & Caicos banks

Cyclargus thomasi noeli (W. Comstock & Huntington, 1943), Miami Blue, Hispaniola and satellite islands

Cyclargus thomasi woodruffi (W. Comstock & Huntington, 1943), Miami Blue, Mona P. Rico, Culebra and vic., Virgin Islands to Leeward I.

Cyclargus ammon (Lucas, 1857), Nickerbean Blue, FL Keys, Cuba, Isla de Juventud

Cyclargus erembis Nabokov, 1948, Cayman Islands Blue, Cayman Islands

Cyclargus shuturn K. Johnson & Bálint, 1995, John & Tom's Blue, Jamaica

Cyclargus dominica (Möschler, 1886), Jamaican Blue, Jamaica

Cyclargus sorpresus K. Johnson & Matusik, 1992, Surprise Blue, SW Dominican Republic

Cyclargus kathleena K. Johnson & Matusik, 1992, Kathleen's Blue, SW Dominican Republic

Echinargus isola (Reakirt, [1867]), Reakirt's Blue, [= *alce*],

Echinargus huntingtoni hannoides (Clench, 1965), Huntington's Blue, Yucatan Peninsula to Panama

Hemiargus hanno hanno (Stoll, 1790), Hanno Blue, range uncertain, mainly S America; *ceraunus* may be conspecific

Hemiargus ceraunus astenidas (Lucas, 1857), Ceraunus Blue, [= *zachaeina*], C & S TX, E & S Mexico to Panama

Hemiargus ceraunus gyas (W. H. Edwards, 1871), Ceraunus Blue, SW USA, NW Mexico

Hemiargus ceraunus antibubastus Hübner, 1818, Ceraunus Blue, Florida (vagrant N), Grand Bahama I.

Hemiargus ceraunus filenus (Poey, 1832), Ceraunus Blue, Cuba, Isla de Juventud, Caymans, Grand Turk, Gr. Inagua, etc.

Hemiargus ceraunus ceraunus (Fabricius, 1793), Ceraunus Blue, Jamaica, Hispaniola, some Bahama Islands (New Prov., etc.)

Hemiargus ceraunus watsoni W. Comstock & Huntington, 1943, Ceraunus Blue, Mona, Puerto Rico, S through Lesser Antilles to Grenada

Philotes sonorensis sonorensis (C. Felder & R. Felder, 1865), Sonoran Blue, MORE INFO ...

Philotes sonorensis extinctis Mattoni, 1991, Sonoran Blue, MORE INFO ...

Philotes sonorensis (C. Felder & R. Felder, 1865) (*Sierra Nevada segregate*), Sonoran Blue, Sierra Nevada Mts., CA

Philotiella speciosa speciosa (Hy. Edwards, 1877), Small Blue, MORE INFO ...

Philotiella speciosa septentrionalis Austin, 1998, Small Blue, MORE INFO ...

Philotiella speciosa bohartorum (Tilden, [1969]), Small Blue, MORE INFO ...

Philotiella speciosa purissima Priestaf & J. Emmel, 1998, Small Blue, MORE INFO ...

Philotiella leona Hammond & McCorkle, 2000, Leona's Blue, MORE INFO ...

Euphilotes [battoides] (Behr, 1867) (high-elevation, C & S Cascades), Square-spotted Blue, [on *Eriogonum marifolium*], C & S Cascades, OR, far N CA

Euphilotes battoides battoides (Behr, 1867), Square-spotted Blue, MORE INFO ...

Euphilotes battoides argocyanea Pratt & J. Emmel, 1998, Square-spotted Blue, MORE INFO ...

Euphilotes battoides mazourka Pratt & J. Emmel, 1998, Square-spotted Blue, [MORE INFO](#) ...

Euphilotes battoides panamintensis Pratt & J. Emmel, 1998, Square-spotted Blue, [MORE INFO](#) ...

Euphilotes battoides allyni (Shields, 1975), Square-spotted Blue, [MORE INFO](#) ...

Euphilotes battoides vernalis Pratt & J. Emmel, 1998, Square-spotted Blue, [MORE INFO](#) ...

Euphilotes battoides fusimaculata Austin, 1998, Square-spotted Blue, [MORE INFO](#) ...

Euphilotes battoides anasazi Scott, 1998, Square-spotted Blue, [MORE INFO](#) ...

Euphilotes glaucon glaucon (W. H. Edwards, 1871), Glaucon Blue, [MORE INFO](#) ...

Euphilotes glaucon oregonensis (W. Barnes & McDunnough, 1917), Glaucon Blue, [MORE INFO](#) ...

Euphilotes glaucon australoglaucon Pratt & J. Emmel, 1998, Glaucon Blue, [MORE INFO](#) ...

Euphilotes glaucon comstocki (Shields, 1975), Glaucon Blue, [MORE INFO](#) ...

Euphilotes glaucon intermedia (W. Barnes & McDunnough, 1917), Glaucon Blue, [MORE INFO](#) ...

Euphilotes glaucon (W. H. Edwards, 1871) (*Siskiyou segregate*), Glaucon Blue, [nr. *intermedia*]

Euphilotes glaucon (W. H. Edwards, 1871) (*W Cascadian segregate*), Glaucon Blue, W Cascades, Lane Co., OR

Euphilotes glaucon (W. H. Edwards, 1871) (*N Cascades segregate*), Glaucon Blue, Mt. Hood, OR, Mt. Adams, WA, N into WA Cascades

Euphilotes centralis centralis (W. Barnes & McDunnough, 1917), Central Blue, [MORE INFO](#) ...

Euphilotes centralis hadrochilus Pratt & J. Emmel, 1998, Central Blue, [MORE INFO](#) ...

Euphilotes bernardino bernardino (W. Barnes & McDunnough, 1916), Bernardino Blue, [MORE INFO](#) ...

Euphilotes bernardino inyomontana Pratt & J. Emmel, 1998, Bernardino Blue, [MORE INFO](#) ...

Euphilotes bernardino minuta Austin, 1998, Bernardino Blue, [MORE INFO](#) ...

Euphilotes bernardino martini (Mattoni, 1954), 'Martin's' Bernardino Blue, Hypothetical for Sonora

Euphilotes bernardino garthi Mattoni, 1989, 'Cedar Island' Bernardino Blue, [MORE INFO](#) ...

Euphilotes ellisii ellisii (Shields, 1975), Ellis' Blue, [MORE INFO](#) ...

- Euphilotes ellisii basinensis Austin, 1998, Ellis' Blue, [MORE INFO ...](#)
- Euphilotes ellisii euromojavensis Pratt & J. Emmel, 1998, Ellis' Blue, [MORE INFO ...](#)
- Euphilotes ellisii avawatz Pratt & J. Emmel, 1998, Ellis' Blue, [MORE INFO ...](#)
- Euphilotes baueri baueri (Shields, 1975), Bauer's Blue, [MORE INFO ...](#)
- Euphilotes baueri orientis Austin, 1998, Bauer's Blue, [MORE INFO ...](#)
- Euphilotes baueri (Shields, 1975) (far N Great Basin, northward?), Bauer's Blue, [MORE INFO ...](#)
- Euphilotes mojave mojave (F. Watson & W. Comstock, 1920), Mojave Blue, [MORE INFO ...](#)
- Euphilotes mojave virginensis Austin, 1998, Mojave Blue, [MORE INFO ...](#)
- Euphilotes stanfordorum Opler & A. Warren, 2009, Stanfords' Blue, W Colorado, far NW New Mexico, possibly E Utah; on E. ovalifolium
- Euphilotes enoptes enoptes (Boisduval, 1852), Dotted Blue, [MORE INFO ...](#)
- Euphilotes enoptes aridorum Austin, 1998, Dotted Blue, [MORE INFO ...](#)
- Euphilotes enoptes bayensis (Langston, 1964), Dotted Blue, [MORE INFO ...](#)
- Euphilotes enoptes (Boisduval, 1852) (N OR Coast Range segregate), Dotted Blue, Polk Co., OR
- Euphilotes enoptes (Boisduval, 1852) (Siskiyou segregate), Dotted Blue, Siskiyou Mts., NW CA, SW OR
- Euphilotes enoptes (Boisduval, 1852) (Cascades, low elevations), Dotted Blue, W ORE Cascades below 4000', also SE WA Cascades
- Euphilotes enoptes (Boisduval, 1852) (OR Cascades, high elevations), Dotted Blue, ORE Cascades above 4000'
- Euphilotes enoptes tildeni (Langston, 1964), 'Tilden's' Dotted Blue, [MORE INFO ...](#)
- Euphilotes enoptes arenacola Pratt & J. Emmel, 1998, 'Sand Dune' Dotted Blue, [MORE INFO ...](#)
- Euphilotes enoptes smithi (Mattoni, 1954), 'Smith's' Dotted Blue, [MORE INFO ...](#)
- Euphilotes enoptes dammersi (J. A. Comstock & Henne, 1933), 'Dammers' Dotted Blue, [MORE INFO ...](#)
- Euphilotes enoptes cryptorufes Pratt & J. Emmel, 1998, 'Cryptorufes' Dotted Blue, [MORE INFO ...](#)
- Euphilotes enoptes opacapulla Austin, 1998, Dotted Blue, [MORE INFO ...](#)
- Euphilotes enoptes primavera Austin, 1998, Dotted Blue, [MORE INFO ...](#)

Euphilotes enoptes langstoni (Shields, 1975), 'Langston's' Dotted Blue, [MORE INFO ...](#)

Euphilotes columbiae (Mattoni, 1954) (Typical segregate), Columbian Blue, [MORE INFO ...](#)

Euphilotes columbiae (Mattoni, 1954) (C Oregon segregate), Columbian Blue, Ochoco Mts, also W Jefferson Co., OR

Euphilotes ancilla ancilla (W. Barnes & McDunnough, 1918), Ancilla Blue, [MORE INFO ...](#)

Euphilotes ancilla (W. Barnes & McDunnough, 1918) (SE OR segregate), Ancilla Blue, [MORE INFO ...](#)

Euphilotes ancilla barnesi Opler & M. Fisher, 2009, Ancilla Blue, [MORE INFO ...](#)

Euphilotes ancilla giulianii Pratt & J. Emmel, 1998, Ancilla Blue, [MORE INFO ...](#)

Euphilotes ancilla gilvatunica Austin, 1998, Ancilla Blue, [MORE INFO ...](#)

Euphilotes ancilla shieldsi Austin, 1998, Ancilla Blue, [MORE INFO ...](#)

Euphilotes ancilla purpura Austin, 1998, Ancilla Blue, N Spring Mts., Clark Co., NV, on *E. umbellatum* var. *juniporinum*

Euphilotes ancilla cryptica Austin & Boyd 2008, Ancilla Blue, Spring Mts., Clark Co., NV, on *E. umbellatum* var. *subaridum*

Euphilotes ancilla pseudointermedia Pratt & J. Emmel, 1998, Ancilla Blue, [MORE INFO ...](#)

Euphilotes rita rita (W. Barnes & McDunnough, 1916), Rita's Blue, [MORE INFO ...](#)

Euphilotes rita (W. Barnes & McDunnough, 1916) (four corners area segregate), Rita's Blue, NW New Mexico, S UT, N AZ

Euphilotes rita coloradensis (Mattoni, [1966]), Rita's Blue, [MORE INFO ...](#)

Euphilotes pallescens emmeli (Shields, 1975), Pallid Blue, [MORE INFO ...](#)

Euphilotes pallescens pallescens (Tilden & Downey, 1955), Pallid Blue, [MORE INFO ...](#)

Euphilotes pallescens mattonii (Shields, 1975), Pallid Blue, [MORE INFO ...](#)

Euphilotes pallescens arenamontana Austin, 1998, Pallid Blue, [MORE INFO ...](#)

Euphilotes pallescens ricei Austin, 1998, Pallid Blue, [MORE INFO ...](#)

Euphilotes pallescens calneva J. Emmel & T. Emmel, 1998, Pallid Blue, [MORE INFO ...](#)

Euphilotes pallescens confusa Pratt & J. Emmel, 1998, Pallid Blue, [MORE INFO ...](#)

Euphilotes pallescens elvirae (Mattoni, [1966]), Pallid Blue, [MORE INFO ...](#)

Euphilotes spaldingi spaldingi (W. Barnes & McDunnough, 1917), Spalding's Blue, [MORE INFO ...](#)

Euphilotes spaldingi pinjuna Scott, 1981, Spalding's Blue, [MORE INFO ...](#)

Glaucopsyche piasus umbrosa J. Emmel, T. Emmel & Mattoon, 1998, Arrowhead Blue, MORE INFO ...

Glaucopsyche piasus sagittigera (C. Felder & R. Felder, 1865), Arrowhead Blue, MORE INFO ...

Glaucopsyche piasus gabrielina J. Emmel, T. Emmel & Mattoon, 1998, Arrowhead Blue, MORE INFO ...

Glaucopsyche piasus excubita J. Emmel, T. Emmel & Mattoon, 1998, Arrowhead Blue, MORE INFO ...

Glaucopsyche piasus piasus (Boisduval, 1852), Arrowhead Blue, MORE INFO ...

Glaucopsyche piasus toxeuina F. Brown, 1971, Arrowhead Blue, MORE INFO ...

Glaucopsyche piasus nevada F. Brown, 1975, Arrowhead Blue, MORE INFO ...

Glaucopsyche piasus daunia (W. H. Edwards, 1871), Arrowhead Blue, MORE INFO ...

Glaucopsyche lygdamus lygdamus (E. Doubleday, 1841), Silvery Blue, MORE INFO ...

Glaucopsyche lygdamus mildredae F. Chermock, 1945, Silvery Blue, MORE INFO ...

Glaucopsyche lygdamus couperi Grote, 1873, Silvery Blue, MORE INFO ...

Glaucopsyche lygdamus afra (W. H. Edwards, [1884]), Silvery Blue, MORE INFO ...

Glaucopsyche lygdamus jacki D. Stallings & Turner, 1947, Silvery Blue, MORE INFO ...

Glaucopsyche lygdamus oro (Scudder, 1876), Silvery Blue, MORE INFO ...

Glaucopsyche lygdamus erico R. Holland, 2011, Silvery Blue, Raton Mesa Complex of CO-NM

Glaucopsyche lygdamus ruidoso R. Holland, 2011, Silvery Blue, Sacramento Mts., NM

Glaucopsyche lygdamus arizonensis McDunnough, 1936, Silvery Blue, Hypothetical for Sonora, requires confirmation

Glaucopsyche lygdamus minipunctum Austin, 1998, Silvery Blue, MORE INFO ...

Glaucopsyche lygdamus deserticola Austin & J. Emmel, 1998, Silvery Blue, MORE INFO ...

Glaucopsyche lygdamus australis F. Grinnell, 1917, Silvery Blue, Baja California Norte

Glaucopsyche lygdamus maritima (A. Weeks, 1902), Silvery Blue, Baja California Sur

Glaucopsyche lygdamus palosverdesensis E. Perkins & J. Emmel, 1977, Silvery Blue, MORE INFO ...

Glaucopsyche lygdamus sabulosa J. Emmel, T. Emmel & Mattoon, 1998, Silvery Blue, MORE INFO ...

Glaucopsyche lygdamus xerces (Boisduval, 1852), Silvery Blue, MORE INFO ...

Glaucopsyche lygdamus pseudoxerces J. Emmel & T. Emmel, 1998, Silvery Blue, [MORE INFO ...](#)

Glaucopsyche lygdamus incognitus Tilden, 1974, Silvery Blue, [MORE INFO ...](#)

Glaucopsyche lygdamus orcus (W. H. Edwards, 1869), Silvery Blue, [MORE INFO ...](#)

Glaucopsyche lygdamus (E. Doubleday, 1841) (Sierra Nevada, high elevations), Silvery Blue, [MORE INFO ...](#)

Glaucopsyche lygdamus columbia (Skinner, 1917), Silvery Blue, [MORE INFO ...](#)

Plebejus idas empetri T. Freeman, 1938, Northern Blue, [MORE INFO ...](#)

Plebejus idas aster (W. H. Edwards, 1882), Northern Blue, [MORE INFO ...](#)

Plebejus idas scudderii (W. H. Edwards, 1861), Northern Blue, boreal Canada (except far W)

Plebejus idas nabokovi (Masters, 1972), Northern Blue, [MORE INFO ...](#)

Plebejus idas alaskensis F. Chermock, 1945, Northern Blue, Alaska, W YK

Plebejus idas ferniensis F. Chermock, 1945, Northern Blue, [MORE INFO ...](#)

Plebejus idas atrapraetextus W. D. Field, 1939, Northern Blue, [MORE INFO ...](#)

Plebejus idas (Linnaeus, 1761) (NE Oregon segregate), Northern Blue, [nr. *atrapraetextus*]

Plebejus idas longinus (Nabokov, 1949), Northern Blue, [MORE INFO ...](#)

Plebejus idas sublivens (Nabokov, 1949), Northern Blue, montane SW Colorado

Plebejus anna anna (W. H. Edwards, 1861), Anna's Blue, [MORE INFO ...](#)

Plebejus anna ricei Cross, 1937, Anna's Blue, [MORE INFO ...](#)

Plebejus anna lotis (Lintner, 1878), Anna's Blue, [MORE INFO ...](#)

Plebejus anna azureus (J. Emmel, T. Emmel & Mattoon, 1998), Anna's Blue, [MORE INFO ...](#)

Plebejus anna vancouverensis (C. Guppy & J. Shepard, 2001), Anna's Blue, [MORE INFO ...](#)

Plebejus anna benwarner Scott, 2006, Anna's Blue, [MORE INFO ...](#)

Plebejus samuelis (Nabokov, 1944), Karner Blue, [MORE INFO ...](#)

Plebejus melissa melissa (W. H. Edwards, 1873), Melissa Blue, [MORE INFO ...](#)

Plebejus melissa pseudosamuelis (Nabokov, 1949), Melissa Blue, [MORE INFO ...](#)

Plebejus melissa annetta (W. H. Edwards, 1882), Melissa Blue, montane N UT

Plebejus melissa alateres (Austin, 1998), Melissa Blue, [MORE INFO ...](#)

Plebejus melissa inyoensis (Nabokov, 1949), Melissa Blue, [MORE INFO ...](#)

- Plebejus melissa paradoxa F. Chermock, 1945, Melissa Blue, Baja California Norte
- Plebejus melissa mexicana (Clench, 1965), Melissa Blue, N Sonora, N Chihuahua
- Plebejus fridayi F. Chermock, 1945 (Typical segregate), Friday's Blue, MORE INFO ...
- Plebejus fridayi F. Chermock, 1945 (White Mountains segregate), Friday's Blue, MORE INFO ...
- Plebejus saepiolus amica (W. H. Edwards, 1863), Greenish Blue, MORE INFO ...
- Plebejus saepiolus insulanus Blackmore, 1920, Greenish Blue, MORE INFO ...
- Plebejus saepiolus littoralis J. Emmel, T. Emmel & Mattoon, 1998, Greenish Blue, MORE INFO ...
- Plebejus saepiolus saepiolus (Boisduval, 1852), Greenish Blue, MORE INFO ...
- Plebejus saepiolus rufescens (Boisduval, 1869), Greenish Blue, MORE INFO ...
- Plebejus saepiolus aehaja (Behr, 1867), Greenish Blue, MORE INFO ...
- Plebejus saepiolus albomontanus Austin & J. Emmel, 1998, Greenish Blue, MORE INFO ...
- Plebejus saepiolus aureolus J. Emmel, T. Emmel & Mattoon, 1998, Greenish Blue, MORE INFO ...
- Plebejus saepiolus hilda (J. Grinnell & F. Grinnell, 1907), Greenish Blue, Hypothetical for Baja California Norte
- Plebejus saepiolus maculosus Austin, 1998, Greenish Blue, MORE INFO ...
- Plebejus saepiolus gertschi dos Passos, 1938, Greenish Blue, MORE INFO ...
- Plebejus saepiolus whitmeri F. Brown, 1951, Greenish Blue, MORE INFO ...
- Plebejus emigdionis (F. Grinnell, 1905), San Emigdio Blue, MORE INFO ...
- Plebejus icarioides evius (Boisduval, 1869), Boisduval's Blue, Baja California Norte
- Plebejus icarioides santana (J. Emmel, T. Emmel & Mattoon, 1998), Boisduval's Blue, MORE INFO ...
- Plebejus icarioides moroensis Sternitzky, 1930, Boisduval's Blue, MORE INFO ...
- Plebejus icarioides atascadero (J. Emmel, T. Emmel & Mattoon, 1998), Boisduval's Blue, MORE INFO ...
- Plebejus icarioides pardalis (Behr, 1867), Boisduval's Blue, MORE INFO ...
- Plebejus icarioides missionensis Hovanitz, 1937, Boisduval's Blue, MORE INFO ...
- Plebejus icarioides pheres (Boisduval, 1852), Boisduval's Blue, MORE INFO ...

Plebejus icarioides parapheres (J. Emmel, T. Emmel & Mattoon, 1998), Boisduval's Blue, MORE INFO ...

Plebejus icarioides fenderi Macy, 1931, Boisduval's Blue, MORE INFO ...

Plebejus icarioides (Boisduval, 1852) (Mary's Peak, Benton Co., W OR), Boisduval's Blue, MORE INFO ...

Plebejus icarioides blackmorei W. Barnes & McDunnough, 1919, Boisduval's Blue, MORE INFO ...

Plebejus icarioides montis Blackmore, 1923, Boisduval's Blue, MORE INFO ...

Plebejus icarioides (Boisduval, 1852) (N Cascades, OR, high elevations), Boisduval's Blue, MORE INFO ...

Plebejus icarioides (Boisduval, 1852) (S Cascades, OR, high elevations), Boisduval's Blue, MORE INFO ...

Plebejus icarioides helios (W. H. Edwards, 1871), Boisduval's Blue, MORE INFO ...

Plebejus icarioides icarioides (Boisduval, 1852), Boisduval's Blue, MORE INFO ...

Plebejus icarioides eosierra (J. Emmel, T. Emmel & Mattoon, 1998), Boisduval's Blue, MORE INFO ...

Plebejus icarioides albihalos (J. Emmel, T. Emmel & Mattoon, 1998), Boisduval's Blue, MORE INFO ...

Plebejus icarioides inyo (J. Emmel, T. Emmel & Mattoon, 1998), Boisduval's Blue, MORE INFO ...

Plebejus icarioides argusmontana (J. Emmel, T. Emmel & Mattoon, 1998), Boisduval's Blue, MORE INFO ...

Plebejus icarioides panamintina (J. Emmel, T. Emmel & Mattoon, 1998), Boisduval's Blue, MORE INFO ...

Plebejus icarioides austinorum (J. Emmel, T. Emmel & Mattoon, 1998), Boisduval's Blue, MORE INFO ...

Plebejus icarioides fulla (W. H. Edwards, 1870), Boisduval's Blue, MORE INFO ...

Plebejus icarioides pembina (W. H. Edwards, 1862), Boisduval's Blue, MORE INFO ...

Plebejus icarioides lycea (W. H. Edwards, 1864), Boisduval's Blue, MORE INFO ...

Plebejus icarioides nigrafem R. Holland, 2011, Boisduval's Blue, Raton Mesa Complex, CO-NM

Plebejus icarioides sacre R. Holland, 2011, Boisduval's Blue, Sacramento Mts., NM

Plebejus icarioides buchholzi dos Passos, 1938, Boisduval's Blue, Chihuahua

Plebejus shasta shasta (W. H. Edwards, 1862), Shasta Blue, [MORE INFO ...](#)

Plebejus shasta calchas (Behr, 1867), Shasta Blue, [MORE INFO ...](#)

Plebejus shasta (W. H. Edwards, 1862) (NW fringe Great Basin segregate), Shasta Blue, White Mts. CA/NV to Warner Mts. CA/OR, E to Harney Co., OR

Plebejus shasta pallidissima (Austin, 1998), Shasta Blue, [MORE INFO ...](#)

Plebejus shasta minnehaha (Scudder, 1874), Shasta Blue, [MORE INFO ...](#)

Plebejus shasta charlestonensis Austin, 1980, Shasta Blue, [MORE INFO ...](#)

Plebejus shasta pitkinensis Ferris, 1976, Shasta Blue, [= *platazul*]

Plebejus acmon (Westwood, [1851]), Acmon Blue, Baja California

Plebejus lupini texanus (Goodpasture, 1973), "Lupine" Blue, [MORE INFO ...](#)

Plebejus lupini lutzi dos Passos, 1938, "Lupine" Blue, [MORE INFO ...](#)

Plebejus lupini (Boisduval, 1869) (SE Oregon segregate), "Lupine" Blue, [MORE INFO ...](#)

Plebejus lupini (Boisduval, 1869) (W Columbia Basin segregate), "Lupine" Blue, [MORE INFO ...](#)

Plebejus lupini (Boisduval, 1869) (SE Cascades, OR, NE CA), "Lupine" Blue, [MORE INFO ...](#)

Plebejus lupini (Boisduval, 1869) (Siskiyou, W OR Cascades), "Lupine" Blue, [MORE INFO ...](#)

Plebejus lupini (Boisduval, 1869) (N OR Coast Range), "Lupine" Blue, Polk Co., OR

Plebejus lupini lupini (Boisduval, 1869), "Lupine" Blue, [MORE INFO ...](#)

Plebejus lupini spangelatus Burdick, 1942, "Lupine" Blue, [MORE INFO ...](#)

Plebejus lupini alpicola (J. Emmel, T. Emmel & Mattoon, 1998), "Lupine" Blue, [MORE INFO ...](#)

Plebejus lupini dedeckera (J. Emmel, T. Emmel & Mattoon, 1998), "Lupine" Blue, [MORE INFO ...](#)

Plebejus lupini argentata (J. Emmel, T. Emmel & Mattoon, 1998), "Lupine" Blue, [MORE INFO ...](#)

Plebejus lupini goodpasturei (Austin, 1998), "Lupine" Blue, [MORE INFO ...](#)

Plebejus lupini chlorina (Skinner, 1902), Chlorina Blue, [MORE INFO ...](#)

Plebejus lupini monticola (Clemence, 1909), Monticola Blue, Baja California Norte

Plebejus (*lupini*) (Boisduval, 1869) complex (Cascades, high elevations), Cascadian Blue, C Cascades of OR to S WA, on *Eriogonum pyrolifolium*

Plebejus cotundra Scott, 2006, Cotundra Blue, [MORE INFO ...](#)

Plebejus neurona (Skinner, 1902), Veined Blue, [MORE INFO ...](#)

Plebejus optilete yukona (W. Holland, 1900), Cranberry Blue, [MORE INFO ...](#)

Plebejus glandon labrador (Schmidt, Scott & Kondla, 2006), Arctic Blue, [MORE INFO ...](#)

Plebejus glandon franklinii (J. Curtis, 1835), Arctic Blue, [MORE INFO ...](#)

Plebejus glandon manitoba Lamas, 2008, Arctic Blue, [= lacustris]

Plebejus glandon bryanti Leussler, 1935, Arctic Blue, [MORE INFO ...](#)

Plebejus glandon megalo McDunnough, 1927, Arctic Blue, [MORE INFO ...](#)

Plebejus glandon rustica (W. H. Edwards, 1865), Arctic Blue, [MORE INFO ...](#)

Plebejus glandon punctatus (Austin, 1998), Arctic Blue, [MORE INFO ...](#)

Plebejus glandon cassiope (J. Emmel & T. Emmel, 1998), Arctic Blue, [MORE INFO ...](#)

Plebejus glandon kelsoni (J. Emmel & T. Emmel, 1998), Arctic Blue, [MORE INFO ...](#)

Plebejus podarce cilla (Behr, 1867), Sierra Blue, [MORE INFO ...](#)

Plebejus podarce podarce (C. Felder & R. Felder, 1865), Sierra Blue, [MORE INFO ...](#)

Plebejus podarce klamathensis (J. Emmel & T. Emmel, 1998), Sierra Blue, [MORE INFO ...](#)

Polyommatus icarus (Rottemburg, 1775), Common Blue, Introduced to SE Canada

Family RIODINIDAE Grote, 1895 (1827), METALMARKS,

Subfamily Euselasiinae Kirby, 1871, Euselasia and relatives,

Euselasia pellonia pellonia Stichel, 1919, Red-rimmed Euselasia, Costa Rica, Peru

Euselasia bettina (Hewitson, 1869), Black-topped Euselasia, Nicaragua to Ecuador

Euselasia cataleuca (R. Felder, 1869), Black-edged Euselasia , SE Mexico, Belize, Honduras

Euselasia aurantia (Butler & H. Druce, 1872), Bright-centered Euselasia, Costa Rica to Colombia

Euselasia leucophryna (Schaus, 1913), Glowing Euselasia, Honduras, Costa Rica

Euselasia eusepus (Hewitson, [1853]), Eusepus Euselasia, Panama to S Brazil

Euselasia matuta (Schaus, 1913), White-ventered *Euselasia*, Costa Rica

Euselasia chrysippe (H. Bates, 1866), Golden *Euselasia*, SE Mexico to Colombia

Euselasia regipennis regipennis (Butler & H. Druce, 1872), Purple-topped *Euselasia* , SE Mexico to Panama

Euselasia regipennis eupepla (Godman & Salvin, 1885), Purple-topped *Euselasia* , Panama and Colombia

Euselasia euoras (Hewitson, [1855]), Purple-washed *Euselasia*, Costa Rica to Peru and Brazil

Euselasia corduena anadema Stichel, 1927, Striped *Euselasia*, Costa Rica to Colombia

Euselasia gyda gydina Stichel, 1919, Pearly-ventered *Euselasia*, Costa Rica and Panama

Euselasia mys mys (Herrich-Schäffer, [1853]), Variable *Euselasia*, Belize to Amazonas, Guianas

Euselasia sergia (Godman & Salvin, 1885), *Sergia Euselasia* , SE Mexico (VER, CHIS) to Panama

Euselasia mystica (Schaus, 1913), Mystical *Euselasia* , Nicaragua to Panama

Euselasia procula (Godman & Salvin, 1885), Orange-costa *Euselasia*, SE Mexico to Colombia

Euselasia hieronymi (Godman & Salvin, 1868) (SW Mexican segregate), Red-rayed *Euselasia* , SW Mexico

Euselasia hieronymi hieronymi (Godman & Salvin, 1868), Red-rayed *Euselasia* , E Mexico to Nicaragua

Euselasia hieronymi bianala J. Hall & Willmott, 1998, Red-rayed *Euselasia* , Costa Rica to W Ecuador

Euselasia inconspicua (Godman & Salvin, 1878), Inconspicuous *Euselasia* , SE Mexico to Costa Rica and Panama

Euselasia leucon (Schaus, 1913), Rusty-patched *Euselasia*, SE Mexico (OAX) to Panama

Euselasia pusilla pusilla (R. Felder, 1869), Pearly *Euselasia*, E Mexico to El Salvador

Euselasia pusilla mazai Beutelspacher, 1975, Pearly *Euselasia*, Chiapas

Euselasia labdacus reducta Lathy, 1926, Red-banded *Euselasia*, Costa Rica to Colombia

Euselasia argentea (Hewitson, 1871), Orange-spotted *Euselasia* , Chiapas to Panama

Euselasia eucrates leucorrhoea (Godman & Salvin, 1878), Godman's *Euselasia* , SE Mexico to Venezuela

Euselasia portentosa Stichel, 1927, Black *Euselasia*, Costa Rica

Euselasia pontasis Callaghan, Llorente & Luis, 2007, Pointed *Euselasia*, SE Mexico (VER, CHIS)

Euselasia amphidecta (Godman & Salvin, 1878), Glossed *Euselasia*, Costa Rica and Panama

Euselasia hypophaea (Godman & Salvin, 1878), Panamanian *Euselasia*, S Mexico to Panama

Euselasia eubule (R. Felder, 1869) (W Mexican segregate), Dusky *Euselasia*, W Mexico

Euselasia eubule (R. Felder, 1869) (Typical segregate), Dusky *Euselasia*, [= mexicana], E Mexico to Panama

Euselasia onorata (Hewitson, 1869), Whitewashed *Euselasia*, Costa Rica to Ecuador

Euselasia midas crotopiades Stichel, 1919, Midas *Euselasia*, Costa Rica to Colombia

Euselasia rhodogyne patella Stichel, 1927, Orange-banded *Euselasia*, Costa Rica and Panama

Euselasia aurantiaca aurum Callaghan, Llorente & Luis, 2007, Fiery *Euselasia*, W Mexico

Euselasia aurantiaca aurantiaca (Godman & Salvin, 1868), Fiery *Euselasia*, E Mexico to Panama

Euselasia cheles (Godman & Salvin 1889), Cheles *Euselasia*, Costa Rica and Panama

Euselasia eurypus (Hewitson, 1856), Stub-tailed *Euselasia*, ["angulata"], SE Mexico to Brazil

Euselasia subargentea (Lathy, 1904), Great *Euselasia*, Costa Rica to Colombia

Methone cecilia caduca Stichel, 1919, Cecilia Metalmark, Costa Rica

Methone cecilia chrysomela (Butler, 1872), Cecilia Metalmark, Costa Rica to Colombia

Hades noctula Westwood, 1851, White-rayed Metalmark, SE Mexico to Colombia and Venezuela

Corrachia leucoplaga Schaus, 1913, Costa Rican Metalmark, Costa Rica

Subfamily Riodininae Grote, 1895 (1827), True Metalmarks,

Mesosemia esperanza Schaus, 1913, Esperanza Eyed-Metalmark, Costa Rica and Panama

Mesosemia coelestis Godman & Salvin, 1885, Pale-blue Eyed-Metalmark, Costa Rica to Colombia

Mesosemia albipuncta Schaus, 1913, White-spotted Eyed-Metalmark, Costa Rica and Panama

Mesosemia hesperina hesperina Butler, 1874, Hesperina Eyed-Metalmark, Nicaragua to Venezuela

Mesosemia zonalis Godman & Salvin, 1885, Whitened Eyed-Metalmark, Honduras to Colombia

Mesosemia ceropia H. Druce, 1874, Spying Eyed-Metalmark, Costa Rica to Colombia

Mesosemia hypermegala Stichel, 1909, Hiding Eyed-Metalmark, Costa Rica to Colombia

Mesosemia telegone telegone (Boisduval, 1836), Violet-washed Eyed-Metalmark, SE Mexico to Colombia

Mesosemia lamachus Hewitson, 1857, Purple-washed Eyed-Metalmark, [= *tertica*], E & W Mexico to Colombia

Mesosemia carissima H. Bates, 1866, Blue-patched Eyed-Metalmark, Nicaragua to Panama

Mesosemia grandis H. Druce, 1874, Giant Eyed-Metalmark, Costa Rica and Panama

Mesosemia gaudiolum H. Bates, 1865, Gaudy Eyed-Metalmark, SE Mexico to Costa Rica

Mesosemia gemina J. De la Maza & R. G. De la Maza, 1980, Turquoise Eyed-Metalmark, SE Mexico

Mesosemia asa asa Hewitson, 1869, Deep-blue Eyed-Metalmark, Nicaragua to Panama

Mesosemia asa asopis Stichel, 1909, Deep-blue Eyed-Metalmark, Panama and Colombia

Mesosemia harveyi DeVries & J. Hall, 1996, Harvey's Eyed-Metalmark, Costa Rica and Panama

Leucochimona vestalis vestalis (H. Bates, 1865), Vestalis Metalmark, SE Mexico and Guatemala

Leucochimona vestalis leucogaea (Godman & Salvin, 1885), Vestalis Metalmark, Guatemala to Panama

Leucochimona lepida nivalis (Godman & Salvin, 1885), Satyr Metalmark, SE Mexico to Guatemala

Leucochimona lepida lepida (Godman & Salvin, 1885), Satyr Metalmark, Nicaragua to Panama

Leucochimona iphias Stichel, 1909, Iphias Metalmark, Panama

Leucochimona lagora (Herrich-Schäffer, [1853]), Lagora Metalmark, Honduras to Guianas & Ecuador

Leucochimona molina (Godman & Salvin, 1885), Molina Metalmark, Nicaragua to Panama

Perophtalma tullius (Fabricius, 1787), Tullius Metalmark, Costa Rica to Brazil

Perophtalma lasus Westwood, 1851, Lasus Metalmark, SE Mexico to Panama

Hyphilaria thasus (Stoll, 1780), *Thasus* Metalmark, [= *subrutila*], SE Mexico S Brazil & Paraguay, Guianas

Hyphilaria parthenis (Westwood, 1851), Fire-banded Metalmark, C Panama to Bolivia & S Brazil, Guianas

Napaea heteroea (H. Bates, 1867), Blue-washed Metalmark, Guianas, Venezuela, Colombia to S Peru, Amazonas

Napaea actoris (Cramer, 1776), *Actoris* Metalmark, far SE Peru, Bolivia, C & S Amazonia

Napaea beltiana (H. Bates, 1867), Clouded Metalmark, [= *malis*, = *aza*], Chiapas to Bolivia, Amazonas

Napaea rufolimba J. Hall, 2005, Red-margined Metalmark, SE Mexico to W & C Ecuador

Napaea eucharila (H. Bates, 1867), White-stitched Metalmark, [= *picina*], SE Mexico to Bolivia, Paraguay, S Brazil, Guianas, Trinidad

Voltinia danforthi (A. Warren & Opler, 1999), Ancient Metalmark, NW Mexico (Sonora to Jalisco)

Voltinia theata Stichel, 1910, Blue-banded Metalmark, Costa Rica to W Ecuador

Voltinia radiata (Godman & Salvin, 1886), White-rayed Metalmark, Costa Rica to Colombia & W Ecuador

Voltinia umbra (Boisduval, 1870) (W Mexican segregate), Quilted Metalmark, W Mexico to Chiapas

Voltinia umbra (Boisduval, 1870) (Chiapas segregate), Quilted Metalmark, S-central Chiapas (very large adults)

Voltinia umbra (Boisduval, 1870) (Typical segregate), Quilted Metalmark, E Mexico to Panama

Hermathena oweni Schaus, 1913, Peppered Metalmark, SE Mexico to Costa Rica

Hermathena eburna J. Hall & Harvey, 2005, White Metalmark, [= regional records of *H. candidata*], Costa Rica to W Ecuador

Ithomiola floralis celtilla (Hewitson, 1870), Clearwing Metalmark, E Panama to Bolivia

Ithomiola calculosa J. Hall & Harvey, 2005, *Calculosa* Metalmark, Costa Rica to C Panama

Ithomiola theages tessera Hall, 2005, White-spotted Metalmark, SE Mexico to Costa Rica

Ithomiola theages theages (Godman & Salvin, 1878), White-spotted Metalmark, Costa Rica to NW Ecuador

Ithomiola cribralis (Stichel, 1915), Cloud-spotted Metalmark, C Panama to W Ecuador

Eurybia cyclopia cyclopia Stichel, 1910, Fire-bordered *Eurybia*, Costa Rica to Ecuador

- Eurybia unxia Godman & Salvin, 1885, Azure-winged Eurybia, [= fulgens], Costa Rica and Panama
- Eurybia lycisca Westwood, 1851, Blue-winged Eurybia, SE Mexico to Ecuador
- Eurybia patrona persona Staudinger, 1876, Great Eurybia, Honduras to Panama
- Eurybia elvina elvina Stichel, 1910, Blind Eurybia, E & W Mexico to Panama
- Lyropteryx lyra cleadas H. Druce, 1875, Lyra Metalmark , SE Mexico to Panama
- Necyria larunda Godman & Salvin, 1885, Larunda Metalmark, Chiapas & Guatemala
- Necyria duellona beltiana Hewitson, 1870, White-dashed Metalmark, Nicaragua to Panama
- Necyria ingaretha Hewitson, 1872, Orange-spotted Metalmark, Nicaragua & Costa Rica
- Cyrenia martia pyrippe Godman & Salvin, 1878, Red-spotted Metalmark, Costa Rica & Panama
- Cyrenia martia martia Westwood, 1851, Red-spotted Metalmark, Amazonas
- Ancyluris inca inca (Saunders, 1850), Inca Metalmark, S Mexico to Panama
- Ancyluris jurgensenii jurgensenii (Saunders, 1850), Costa-spotted Metalmark, S Mexico to Panama
- Rhetus arcus beutelspacheri Llorente, 1988, Long-tailed Metalmark, W Mexico
- Rhetus arcus thia (Morisse, 1838), Long-tailed Metalmark, E Mexico
- Rhetus arcus castigatus Stichel, 1909, Long-tailed Metalmark , Guatemala to Costa Rica
- Rhetus dysoni caligosus Stichel, 1929, Dyson's Metalmark, Costa Rica to Colombia
- Rhetus periander naevianus Stichel, 1910, Periander Metalmark, S Mexico to Panama
- Chorinea bogota (Saunders, 1859), Northern Chorinea, Guatemala to Colombia
- Ithomeis eulema imitatrix Godman & Salvin, 1878, Northern Mimic-metalmark, Costa Rica & Panama
- Isapis agyrtus hera Godman & Salvin, 1886, Yellow-based Metalmark , S Mexico to Panama
- Brachyglenis esthema esthema C. Felder & R. Felder, 1862, White-rayed Metalmark, Costa Rica & Colombia
- Brachyglenis dinora (H. Bates, 1866), Dinora Metalmark, Nicaragua to Colombia
- Brachyglenis dodone (Godman & Salvin, 1886), Orange-bellied Metalmark , S Mexico to Panama
- Brachyglenis sp., Mystery Metalmark, [nr. dodone], Costa Rica & Panama
- Nothome erota diadema Stichel, 1910, Tawny Metalmark, S Mexico to Bolivia

Monethe albertus rudolphus Godman & Salvin, 1885, Yellow-patched Metalmark, Honduras to Colombia

Chalodeta chaonitis (Hewitson, 1866), Orange-stitched Metalmark, Mexico to Brazil, Trinidad

Chalodeta lypera (H. Bates, 1868), Green-stitched Metalmark, Guatemala to Brazil

Metacharis victrix (Hewitson, 1870), Victrix Metalmark, Nicaragua to W Ecuador

Metacharis umbrata Stichel, 1929, Shadowed Metalmark, [DeVries 1997: 163 "umbrata"; pl. 25 "onorata"], Nicaragua to W Ecuador

Metacharis syloes Hewitson, 1877, Confused Metalmark, N Venezuela to Bolivia

Metacharis smalli Hall, 2005, Small's Metalmark, Panama

Cariomothis poeciloptera poeciloptera (Godman & Salvin, 1878), Fiery Metalmark, Costa Rica & Panama

Cariomothis poeciloptera melusina (Staudinger, 1888), Fiery Metalmark, Panama & Colombia

Pheles melanchroia (C. Felder & R. Felder, 1865), Melancholy Metalmark, Mexico & Guatemala

Pheles strigosa strigosa (Staudinger, 1876), Strigosa Metalmark, S Mexico to Colombia

Pheles incerta Staudinger, [1887], Incerta Metalmark, Panama to Peru

Pheles eulesca (Dyar, 1909), Dyar's Metalmark, S Mexico to Panama

Pheles ochracea (Stichel, 1910), Ochracea Metalmark, Panama to Venezuela

Pheles bicolor (Godman & Salvin, 1886), Yellowed Metalmark, Panama, [Costa Rica?]

Syrmatia nyx (Hübner, [1817]), Spotted Tailwing, Costa Rica to Brazil, Trinidad

Syrmatia aethiops Staudinger, 1888, White-tipped Tailwing, Costa Rica to Brazil

Chamaelimnas cydonia Stichel, 1910, Cydonia Metalmark, [= villagomes], Panama, [Costa Rica?]

Detritivora nicolayi (J. Hall & Harvey, 2001), Nicolay's Metalmark, Costa Rica & Panama

Detritivora smalli (J. Hall & Harvey, 2001), Small's Metalmark, E Panama to W Ecuador

Detritivora hermodora (C. Felder & R. Felder, 1861), Hermodora Metalmark, Costa Rica to Venezuela

Detritivora gynaea (Godart, [1824]), Gynaea Metalmark, Costa Rica to Brazil

Detritivora barnesi (J. Hall & Harvey, 2001), Barnes' Metalmark, SE Mexico to W Ecuador

Charis anius (Cramer, 1776), Anius Metalmark, Honduras to Brazil

- Calephelis borealis* (Grote & Robinson, 1866), Northern Metalmark, E OK, MO, IN to VA, local in New England
- Calephelis muticum* McAlpine, 1937, Swamp Metalmark, N AR, MO, KY?, WO to MI, OH
- Calephelis virginiensis* (Guérin-Méneville, [1832]), Little Metalmark, E TX to FL, N to VA
- Calephelis laverna laverna* (Godman & Salvin, 1886), Laverna *Calephelis*, S Mexico to Brazil
- Calephelis laverna parva* Austin, 1993, Laverna *Calephelis*, Osa Peninsula, SW Costa Rica
- Calephelis argyrodines* (H. Bates, 1866), *Argyrodines Calephelis*, S Mexico to Costa Rica
- Calephelis nemesis australis* (W. H. Edwards, 1877), Fatal *Calephelis*, S TX, NE Mexico
- Calephelis nemesis nemesis* (W. H. Edwards, 1871), Fatal *Calephelis*, SE AZ, S NM, NW Mexico
- Calephelis nemesis dammersi* McAlpine, 1971, Fatal *Calephelis*, [= *californica*], S CA, Baja California
- Calephelis bajaensis* McAlpine, 1971, Baja *Calephelis*, Baja California Sur
- Calephelis exiguus* Austin, 1993, Exigua *Calephelis*, Costa Rica
- Calephelis costaricicola* Strand, 1916, Costa Rican *Calephelis*, S Mexico to Panama
- Calephelis perditalis perditalis* W. Barnes & McDunnough, 1918, Rounded *Calephelis*, S TX to SE Mexico
- Calephelis perditalis donahuei* McAlpine, 1971, Rounded *Calephelis*, vic. Jacala, Hidalgo, Mexico
- Calephelis mexicana* McAlpine, 1971, Mexican *Calephelis*, E & W Mexico
- Calephelis sixola* McAlpine, 1971, Greater *Calephelis*, Costa Rica
- Calephelis wrighti* W. Holland, 1930, Wright's *Calephelis*, Baja California, lower Colorado River drainage
- Calephelis fulmen* Stichel, 1910, Fulmen *Calephelis*, E & W Mexico to Panama
- Calephelis rawsoni* McAlpine, 1939, Rawson's *Calephelis*, W & S TX, NE Mexico
- Calephelis freemani* McAlpine, 1971, Freeman's *Calephelis*, Davis Mts., Jeff Davis Co., TX
- Calephelis arizonensis* McAlpine, 1971, Arizona *Calephelis*, SE AZ, SW NM, NW Mexico
- Calephelis sinaloensis sinaloensis* McAlpine, 1971, Sinaloan *Calephelis*, NW Mexico (S Sinaloa)
- Calephelis sinaloensis nuevoleon* McAlpine, 1971, Sinaloan *Calephelis*, NE & N-central Mexico (Nuevo Leon to Durango)

Calephelis dreisbachi McAlpine, 1971, Dreisbach's *Calephelis* , NW Mexico (Sinaloa-Nayarit), [SE Arizona?]

Calephelis stallingsi McAlpine, 1971, Stallings' *Calephelis* , E Mexico to Guatemala

Calephelis matheri McAlpine, 1971, Mather's *Calephelis* , W-central Mexico

Calephelis huasteca McAlpine, 1971, Huastecan *Calephelis* , E Mexico

Calephelis montezuma McAlpine, 1971, Montezuma's *Calephelis* , E & W Mexico

Calephelis acapulcoensis McAlpine, 1971, Acapulco *Calephelis* , SW Mexico

Calephelis azteca McAlpine, 1971, Aztec *Calephelis*, E Mexico

Calephelis yucatana McAlpine, 1971, Yucatan *Calephelis* , Yucatan Peninsula and vicinity

Calephelis maya McAlpine, 1971, Mayan *Calephelis* , Yucatan Peninsula and vicinity

Calephelis yautepequensis R. G. De la Maza & Turrent, 1977, Morelos *Calephelis* , S-central Mexico

Calephelis wellingi wellingi McAlpine, 1971, Welling's *Calephelis*, SE Mexico to Belize

Calephelis wellingi baleuensis McAlpine, 1971, Welling's *Calephelis*, Alta Verapaz, Guatemala

Calephelis sacapulas McAlpine, 1971, Sacapulas *Calephelis*, Guatemala, [S Mexico?]

Calephelis clenchi McAlpine, 1971, Clench's *Calephelis*, Guatemala to El Salvador

Calephelis browni McAlpine, 1971, Brown's *Calephelis*, S Mexico to Panama

Calephelis sodalis Austin, 1993, *Sodalis Calephelis*, Costa Rica, [Panama?]

Calephelis schausi McAlpine, 1971, Schaus' *Calephelis*, Honduras to Panama

Calephelis guatemala McAlpine, 1971, Guatemalan *Calephelis*, Guatemala

Calephelis tikal Austin, 1993, Tikal *Calephelis*, SE Mexico (Yucatan Peninsula) to Guatemala

Calephelis inca McAlpine, 1971, Inca *Calephelis*, Costa Rica to Brazil & Trinidad

Calephelis tapuyo McAlpine, 1971, Tapuyo *Calephelis*, possibly Costa Rica

Calephelis candiope (H. Druce, 1904), *Candiope Calephelis*, Costa Rica to Colombia

Calephelis iris (Staudinger, 1876), *Iris Calephelis*, Guatemala to Colombia

Calephelis velutina (Godman & Salvin, 1878), *Dark Calephelis*, S Mexico to Colombia

Parcella amarynthina (C. Felder & R. Felder, 1865), *Orange-banded Metalmark*, Panama to Argentina

Caria ino ino Godman & Salvin, 1886, *Red-bordered Metalmark*, W Mexico

- Caria ino melicerta* Schaus, 1890, Red-bordered Metalmark, E Mexico, S TX
- Caria domitianus vejento* Clench, 1967, Small-patched Metalmark, SE Mexico to Panama
- Caria rhacotis* (Godman & Salvin, 1878), Honduran Metalmark, S Mexico to Peru
- Caria stillaticia* Dyar, 1912, Gold-headed Metalmark, [= *rabatta*], SW Mexico
- Caria melino* Dyar, 1912, Melino Metalmark, SE Mexico
- Caria mantinea lampeto* Godman & Salvin, 1886, Lampeto Metalmark, S Mexico to Bolivia
- Baeotis zonata zonata* R. Felder, 1869, Bumblebee Metalmark, E & W Mexico to Venezuela
- Baeotis nesaea* Godman & Salvin, 1889, Nesaea Metalmark, Costa Rica to Peru
- Baeotis barce barce* Hewitson, 1875, Barce Metalmark, S Mexico to Honduras
- Baeotis sulphurea* (R. Felder, 1869), Sulphur Metalmark, E Mexico to Guatemala
- Baeotis macularia* (Boisduval, 1870), Sulphur Metalmark, S Mexico (Chiapas) to Colombia
- Lasaia meris* (Stoll, 1781), Variegated Lasaia, S Mexico to Brazil
- Lasaia sula sula* Staudinger, 1888, Blue Lasaia, W Mexico to Costa Rica
- Lasaia sula peninsularis* Clench, 1972, Blue Lasaia, S TX, E Mexico
- Lasaia agesilas callaina* Clench, 1972, Shining-blue Lasaia, E & W Mexico to N Costa Rica
- Lasaia agesilas agesilas* (Latreille, [1809]), Shining-blue Lasaia, S Costa Rica to Bolivia & Brazil
- Lasaia sessilis* Schaus, 1890, Gray Lasaia, E & S Mexico to Costa Rica
- Lasaia pseudomeris* Clench, 1972, Clench's Lasaia, Costa Rica to Venezuela & Peru
- Lasaia maria maria* Clench, 1972, Blue-gray Lasaia, W Mexico to Guatemala, Honduras
- Lasaia maria anna* Clench, 1972, Blue-gray Lasaia, E Mexico
- Lasaia oileus* Godman, 1903, Oily Lasaia, Belize to Paraguay, French Guiana, Trinidad
- Exoplisia hypochalybe hypochalybe* (C. Felder & R. Felder, 1861), Many-banded Metalmark, S Mexico to Colombia
- Exoplisia cadmeis* (Hewitson, 1866), Cadmeis Metalmark, Honduras to Peru
- Exoplisia azuleja* Callaghan, Llorente & Luis, 2007, Occidental Metalmark, W Mexico
- Melanis pixe pixe* (Boisduval, 1836), Pixie, [= *sexpunctata*], S TX, E & W Mexico to Guatemala
- Melanis pixe sanguinea* (Stichel, 1910), Pixie, Honduras to Colombia

Melanis electron melantho (Ménétriés, 1855), Electron Metalmark, Belize & Guatemala to Panama

Melanis gynaeeas (Godman & Salvin, 1889), Forgotten Metalmark, E & S Mexico (TAMPS, PUE, VER, GRO)

Melanis cepheis (Ménétriés, 1855), White-rayed Metalmark, W Mexico to Costa Rica

Melanis acroleuca huasteca J. White & A. White, 1989, White-tipped Metalmark, E Mexico

Melanis acroleuca acroleuca (R. Felder, 1869), White-tipped Metalmark, W Mexico

Mesene phareus (Cramer, 1777), Cell-barred Metalmark, S Mexico to Brazil & Peru

Mesene mygdon Schaus, 1913, Red Metalmark, Costa Rica to Brazil

Mesene croceella H. Bates, 1865, Guatemalan Metalmark, E & S Mexico to Costa Rica, [Panama?]

Mesene margaretta jimena Callaghan, Llorente & Luis, 2011, Zebra-tipped Metalmark, SW Mexico

Mesene margaretta (A. White, 1843) (El Salvador segregate), Zebra-tipped Metalmark, El Salvador

Mesene margaretta margaretta (A. White, 1843), Zebra-tipped Metalmark, E Mexico to Colombia

Mesene silaris Godman & Salvin, 1878, Yellow Metalmark, S Mexico to Peru, Venezuela, Guianas

Mesene leucopus Godman & Salvin, 1886, White-legged Metalmark, S Mexico & Guatemala

Mesenopsis bryaxis (Hewitson, 1870), Yellow-centered Metalmark, Nicaragua to Colombia

Mesenopsis melanochlora (Godman & Salvin, 1878), Orange-striped Metalmark, Nicaragua to Bolivia

Xenandra helius helius (Cramer, 1779), Red-striped Metalmark, Costa Rica to Colombia

Xenandra nigrivenata Schaus, 1913, Black-veined Metalmark, Costa Rica

Xenandra desora Schaus, 1928, Red-patched Metalmark, Costa Rica & Panama

Esthemopsis clonia C. Felder & R. Felder, 1865, Clonia Metalmark, S Mexico to Colombia

Esthemopsis alicia alicia (H. Bates, 1865), Alicia's Metalmark, S Mexico & Guatemala

Esthemopsis colaxes colaxes Hewitson, 1870, Cloaxes Metalmark, Costa Rica to W Ecuador

Esthemopsis pherephatte pherephatte (Godart, [1824]), Godart's Metalmark, [= *caeruleata*], S Mexico to Panama

Chimastrum argenteum argenteum (H. Bates, 1866), Silvery Metalmark, S Mexico to Panama

Symmachia probetor championi Godman & Salvin, 1886, Red-costa Metalmark, S Mexico & Guatemala

Symmachia probetor probetor (Stoll, 1782), Red-costa Metalmark, Nicaragua to Colombia

Symmachia rubina rubina H. Bates, 1866, Rubina Metalmark, S Mexico to Colombia

Symmachia leena leena Hewitson, 1870, Rusted Metalmark, Nicaragua to Panama

Symmachia accusatrix Westwood, 1851, Accused Metalmark, Mexico to Colombia, Ecuador, Brazil

Symmachia threissa threissa Hewitson, 1870, White-notched Metalmark, Nicaragua to Colombia

Symmachia virgatula Stichel, 1910, Golden-red Metalmark, S Mexico (Chiapas) to W Ecuador

Symmachia tricolor Hewitson, 1867, Tricolored Metalmark, [= *hademanni*], S Mexico to Colombia

Symmachia xypete (Hewitson, 1870), Tiger-striped Metalmark, Nicaragua to Panama

Pirascia arbuscula arbuscula (Möschler, 1883), Arbuscula Metalmark, Panama to Guianas

Pirascia phoenicura (Godman & Salvin, 1886), Dingy Metalmark, Nicaragua to Colombia

Pirascia tyriotes (Godman & Salvin, 1878), Golden-banded Metalmark, S Mexico to Brazil, Trinidad

Panaropsis elegans (Schaus, 1920), Fire-banded Metalmark, S Mexico (Chiapas) to Panama

Phaenochitonina ignipicta Schaus, 1913, Ignipicta Metalmark, Costa Rica & Panama

Sarota subtessellata (Schaus, 1913), Regal Sarota, Costa Rica to W Colombia

Sarota chrysus (Stoll, 1781), Stoll's Sarota, SE Mexico to Bolivia & Brazil, Guianas, Trinidad

Sarota neglecta Stichel, 1910, Neglected Sarota, Costa Rica to W Ecuador & NW Venezuela

Sarota chocoensis J. Hall, 1998, Choco Sarota, C Panama to W Ecuador

Sarota turrialbensis (Schaus, 1913), Turrialba Sarota, Turrialba, Costa Rica

Sarota craspediodonta (Dyar, 1918), Veracruz Sarota, S Mexico & Guatemala

Sarota psaros psaros Godman & Salvin, 1886, Guatemalan Sarota, S Mexico to Panama, Guianas

Sarota estrada estrada Schaus, 1928, Schaus' Sarota, S Mexico to Costa Rica

Sarota gamelia gamelia Godman & Salvin, 1886, Panamanian *Sarota* , S Mexico to W Ecuador

Sarota acantus (Stoll, 1781), Simple *Sarota*, Honduras to W Ecuador, Venezuela, Peru, Guianas, Trinidad

Sarota gyas (Cramer, 1775), Guyanan *Sarota*, [Mexico to Panama?], Colombia to Peru, Brazil, Guianas

Sarota myrtea Godman & Salvin, 1886, Godman's *Sarota*, E Mexico to W Ecuador, Venezuela to Argentina

Anteros allectus Westwood, 1851, Rounded *Anteros*, [= *cumulatus*], Costa Rica to W Ecuador

Anteros chrysoprasta roratus Godman & Salvin, 1886, Elegant *Anteros* , S Mexico to Panama

Anteros formosus micon H. Druce, 1875, Black-bellied *Anteros* , S Mexico to Panama

Anteros kupris kupris Hewitson, 1875, Giant *Anteros*, Costa Rica to Ecuador

Anteros carausius carausius Westwood, 1851, Carousing *Anteros*, E & W Mexico to Colombia

Anteros renaldus indigator Stichel, 1911, Regal *Anteros*, Nicaragua to Panama

Ourocnemis archytas (Stoll, 1787), False *Anteros*, Panama, Surinam, E Ecuador, C Brazil, Paraguay

Calydna venusta venusta Godman & Salvin, 1886, Venusta Metalmark, E & W Mexico to Panama

Calydna sturnula (Geyer, 1837), *Sturnula* Metalmark, [= *hegias*, = *sinuata*], E & W Mexico to Panama

Emesis lucinda (Cramer, 1775), White-patched *Emesis*, Costa Rica to N Brazil & Guianas

Emesis aurimna (Boisduval, 1870), White-spotted *Emesis* , E & S Mexico to Colombia

Emesis glaucescens Talbot, 1929, White-frosted *Emesis*, Colombia

Emesis saturata Godman & Salvin, 1886, Oaxacan *Emesis* , S Mexico

Emesis liodes Godman & Salvin, 1886, *Liodes* *Emesis*, Yucatan Peninsula & vicinity

Emesis sp. undescribed, Hook-tipped *Emesis*, Chiapas

Emesis lacrines Hewitson, 1870, Striated *Emesis*, Nicaragua to Panama

Emesis mandana furor Butler & H. Druce, 1872, Great *Emesis* , E & W Mexico to Costa Rica

Emesis mandana mandana (Cramer, 1780), Great *Emesis* , S Costa Rica to Brazil

Emesis vimena Schaus, 1928, Schaus' *Emesis*, S Mexico to Panama

- Emesis tegula Godman & Salvin, 1886, Tegula Emesis, E & W Mexico to Colombia
- Emesis vulpina Godman & Salvin, 1886, Pale Emesis, E & W Mexico to Guatemala
- Emesis poeas Godman, 1901, Thorn-scrub Emesis , W Mexico
- Emesis fatimella nubilata Stichel, 1910, Fatimella Emesis , S Mexico to Colombia, Guianas, Trinidad
- Emesis tenedia C. Felder & R. Felder, 1861, Falcate Emesis, S TX (as stray), E & W Mexico to Brazil
- Emesis lupina lupina Godman & Salvin, 1886, Lupina Emesis, E & W Mexico to Venezuela
- Emesis ocypore aethalia H. Bates, 1868, Dark Emesis , S Mexico to Colombia
- Emesis zela cleis (W. H. Edwards, 1882), Zela Emesis , S AZ, SW NM, NW Mexico
- Emesis zela zela Butler, 1870, Zela Emesis, W & C Mexico to Guatemala
- Emesis ares (W. H. Edwards, 1882), Ares Emesis, SE AZ, SW NM, NW Mexico
- Emesis brimo brimo Godman & Salvin, 1889, Brimo Emesis, Panama to Colombia
- Emesis emesia (Hewitson, 1867), Curve-winged Emesis, E & W Mexico to Yucatan
- Emesis arnaxis Stichel, 1928, Miahuatlan Emesis , SW Mexico (Sierra Madre del Sur, Oaxaca)
- Emesis cypria paphia R. Felder, 1869, Orange-striped Emesis, S Mexico to Colombia
- Emesis toltec Reakirt, 1866, Toltec Emesis, Mexico
- Argyrogrammana stilbe holosticta (Godman & Salvin, 1878), Dotted Metalmark, S Mexico to Peru
- Argyrogrammana crocea (Godman & Salvin, 1878), Crocea Metalmark, Costa Rica & Panama
- Argyrogrammana leptographia (Stichel, 1911), Blue-stained Metalmark, Costa Rica to Colombia
- Argyrogrammana barine (Staudinger, [1887]), Blue-studded Metalmark, Costa Rica to Colombia
- Pseudonymphidia clearista (Butler, 1871), Clearista Metalmark , W Mexico to Panama
- Pseudonymphidia agave agave (Godman & Salvin, 1886), Agave Metalmark, S Mexico to Panama
- Pixus corculum (Stichel, 1929), Pixus Metalmark, [S Mexico?], Guatemala to Colombia
- Pachythone gigas nigriciliata Schaus, 1913, Gigas Metalmark , S Mexico to Panama, Atlantic slope

Pachythone gigas gigas Godman & Salvin, 1878, *Gigas* Metalmark , Costa Rica & Panama, Pacific slope

Roeberella lencates (Hewitson, 1875), *Lencates* Metalmark, Costa Rica to Brazil, Trinidad

Lamphiotis velazquezi (Beutelspacher, 1976), Brown-tipped Metalmark , SW Mexico to Guatemala

Apodemia mormo mormo (C. Felder & R. Felder, 1859), Mormon Metalmark, Columbia Basin, NW Great Basin to E edge Cascades, Siskiyou

Apodemia mormo parva Austin, 1998, Mormon Metalmark, NE NV, W & N UT, SE ID, W WY, NE CO

Apodemia mormo autumnalis Austin, 1998, Mormon Metalmark, N AZ, N NM, SE CA, SW UT, S NV; possibly E to SW CO

Apodemia mormo (C. Felder & R. Felder, 1859) (*SE Arizona segregate*), Mormon Metalmark, SE Arizona

Apodemia mormo cythera (W. H. Edwards, 1873), Mormon Metalmark, widespread in S CA, univoltine in fall

Apodemia mormo tuolumnensis Opler & Powell, 1962, Mormon Metalmark, C & S Sierra Nevada, at least

Apodemia mormo langei J. A. Comstock, 1939, Mormon Metalmark, vic. Antioch, Contra Costa Co., CA

Apodemia mormo (C. Felder & R. Felder, 1859) (*C & S CA Coast Ranges*), Mormon Metalmark, CA San Fran. Bay area S to Baywood Park area, SLO Co.

Apodemia mormo (C. Felder & R. Felder, 1859) (*Cottonwood Pass segregate*), Mormon Metalmark, [nr. *langei*], Ortega Grade to Cottonwood Pass, SLO Co., CA

Apodemia virgulti peninsularis J. Emmel, T. Emmel & Pratt, 1998, Behr's Metalmark, San Jacinto, Palomar & Laguna Mts., Riv., S.D. cos., CA; univoltine

Apodemia virgulti virgulti (Behr, 1865), Behr's Metalmark, SW CA, Baja California (N); widespread, multivoltine

Apodemia virgulti arenaria J. Emmel & T. Emmel, 1998, Behr's Metalmark, El Segundo, Los Angeles Co., CA

Apodemia virgulti nigrescens J. Emmel & T. Emmel, 1998, Behr's Metalmark, vic. Colton, San Bernardino Co., CA

Apodemia virgulti pratti J. Emmel & T. Emmel, 1998, Behr's Metalmark, Holcomb Valley, San Bernardino Mts., San Bernardino Co., CA

Apodemia virgulti dialeuca Opler & Powell, 1962, Behr's Metalmark, Baja California (Norte)



Apodemia virgulti dialeucoides J. Emmel, T. Emmel & Pratt, 1998, Behr's Metalmark, San Bernardino Mts.; Sugarloaf Mt. E to Onyx Peak; univoltine

Apodemia virgulti mojavelimbus J. Emmel, T. Emmel & Pratt, 1998, Behr's Metalmark, SW edge Mojave Desert & San Gabriel Mts.; univoltine (spring)

Apodemia virgulti davenporti J. Emmel, T. Emmel & Pratt, 1998, Behr's Metalmark, E slope S. Nevada (Olancho to Walker Pass); Tehachapis, Piutes

Apodemia mejicanus deserti W. Barnes & McDunnough, 1918, 'Desert' Mexican Metalmark, Colorado Desert

Apodemia mejicanus mejicanus (Behr, 1865), Mexican Metalmark, NW Mexico, SE AZ

Apodemia mejicanus maxima (A. G. Weeks, 1891), 'Giant' Mexican Metalmark, Baja California

Apodemia mejicanus pueblo Scott, 1998, 'Northern' Mexican Metalmark, E NM, S-central CO, N CO, SE WY, E MT, W ND

Apodemia mejicanus (Behr, 1865) (S San Luis Valley segregate), 'Dark' Mexican Metalmark, S San Luis Valley, CO-NM

Apodemia duryi (W. H. Edwards, 1882), Dury's Metalmark, S-central NM, W TX, N-central Mexico to QRO

Apodemia palmerii palmerii (W. H. Edwards, 1870), Palmer's Metalmark, Baja California (N), S CA, S NV, SW UT, W AZ

Apodemia palmerii arizona Austin, [1989], Palmer's Metalmark, C AZ to W TX, NW Mexico (SON, SIN, CHIH)

Apodemia palmerii australis Austin, [1989], Palmer's Metalmark, C Mexico (DGO to MICH & HGO)

Apodemia hepburni hepburni Godman & Salvin, 1886, Hepburn's Metalmark, NW Mexico, uncommon in SE AZ, W TX

Apodemia hepburni remota Austin, 1991, Hepburn's Metalmark, Baja California Sur

Apodemia murphyi Austin, [1989], Murphy's Metalmark, Baja California

Apodemia hypoglauca hypoglauca (Godman & Salvin, 1878), Falcate Metalmark, E & W Mexico, Guatemala

Apodemia hypoglauca wellingi Ferris, 1985, Falcate Metalmark, Yucatan Peninsula & vicinity

Apodemia walkeri Godman & Salvin, 1886, Walker's Metalmark, S TX (rare stray), E & W Mexico to NW Costa Rica

Apodemia multiplaga Schaus, 1902, Narrow-winged Metalmark, S TX (rare stray), E & W Mexico to NW Costa Rica

- Apodemia phyciodoides W. Barnes & Benjamin, 1924, Crescent Metalmark , SE AZ (extirpated), NW Mexico (SON, CHIH)
- Apodemia nais (W. H. Edwards, 1877), Nais Metalmark, N-central CO to SW NM, C & SE AZ, NW Mexico (CHIH, SON, DGO)
- Apodemia chisosensis H. Freeman, 1964, Chisos Metalmark, SW TX, Hypothetical for N-central Mexico
- Dianesia carteri carteri (W. Holland, 1902), Caribbean Metalmark, Bahamas (New Providence, L. San Salvador, Andros, Exumas)
- Dianesia carteri ramsdeni (Skinner, 1912), Caribbean Metalmark, Cuba
- Comphotis ignicauda (Godman & Salvin, 1878), Red-stained Metalmark, Costa Rica & Panama
- Aricoris erostratus (Westwood, 1851), Erostratus Metalmark, Panama to Venezuela
- Aricoris domina (H. Bates, 1865), Domina Metalmark, Costa Rica & Panama
- Ariconias albinus (C. Felder & R. Felder, 1861), Albinus Metalmark, Panama to Venezuela
- Lemonias caliginea (Butler, 1867), Butler's Metalmark, S Mexico to Guatemala
- Thisbe irenea (Stoll, 1780), Irenia Metalmark, S Mexico to Brazil
- Thisbe lycorias (Hewitson, [1853]) , Banner Metalmark, E & W Mexico to Colombia & Peru
- Thisbe ucubis (Hewitson, 1870), Ucubis Metalmark, Costa Rica to Colombia
- Juditha odites praeclarum (H. Bates, 1866), Odites Metalmark, Costa Rica to W Ecuador
- Juditha dorilis (H. Bates, 1866), Dorilis Metalmark, Nicaragua to W Ecuador
- Juditha caucana (Stichel, 1911), Molpe Metalmark, [= records of molpe from region], SE Mexico to W Ecuador]
- Synargis mycone (Hewitson, 1865), Rusty Metalmark, W Mexico to Nicaragua
- Synargis dirca (Stichel, 1911), Dirca Metalmark, Panama
- Synargis ochra (H. Bates, 1868), Ochra Metalmark, S Mexico to Colombia, Peru
- Synargis phliasus velabrum (Godman & Salvin, 1878), Sister Metalmark, Honduras to Colombia
- Synargis nymphidioides septentrionalis Callaghan, Llorente & Luis, 2007, Greater Metalmark , S Mexico (S Oaxaca to C Veracruz)
- Synargis nymphidioides nymphidioides (Butler, 1872), Greater Metalmark , S Mexico (Chiapas) to Panama, Pacific slope
- Synargis palaeste (Hewitson, 1870), Palaeste Metalmark, Costa Rica to Colombia



Periplacis glaucoma isthmica (Godman & Salvin, 1878), *Glaucoma Metalmark*, S Mexico to Panama

Menander menander purpurata (Godman & Salvin, 1878), *Menander Metalmark*, E & S Mexico to Colombia

Menander pretus picta (Godman & Salvin, 1886), *Cramer's Metalmark*, S Mexico to Ecuador

Menander laobotas (Hewitson, 1875), *Three-spotted Metalmark*, Nicaragua to Ecuador

Rodinia calphurnia barbouri M. Bates, 1936, *Flag-tailed Metalmark*, Panama to Colombia

Calospila lucianus lucianus (Fabricius, 1793), *Lucianus Metalmark*, Costa Rica to Venezuela, Guianas, Trinidad

Calospila asteria (Stichel, 1911), *Asteria Metalmark*, Panama to Colombia

Calospila cilissa (Hewitson, 1863), *Cilissa Metalmark*, Honduras to Colombia

Calospila pelarge (Godman & Salvin, 1878), *Pelarge Metalmark*, S Mexico to W Ecuador

Calospila idmon (Godman & Salvin, 1889), *Idmon Metalmark*, Panama

Calospila hemileuca troetschi (Godman, 1901), *Hemileuca Metalmark*, Costa Rica to W Ecuador

Hypophylla zeurippa Boisduval, 1836, *Zeurippa Metalmark*, W Mexico to Panama

Hypophylla martia (Godman, 1903), *Martia Metalmark*, SE Mexico (CHIS) to Colombia

Hypophylla sudias sudias (Hewitson, [1858]), *White-banded Metalmark*, S Mexico to Panama

Hypophylla argenissa (Stoll, 1790), *Deep-blue Metalmark*, Costa Rica to Colombia

Adelotypa eudocia (Godman & Salvin, 1897), *Tiny Metalmark*, NW Mexico to Costa Rica

Adelotypa densemaculata (Hewitson, 1870), *Tan Metalmark*, Nicaragua to Peru

Adelotypa glauca (Godman & Salvin, 1886), *Glauca Metalmark*, Costa Rica to Venezuela

Setabis lagus jansonii (Butler, 1870), *Lagus Metalmark*, S Mexico to Panama

Setabis alcmaeon alcmaeon (Hewitson, 1876), *Blue-rayed Metalmark*, Costa Rica to W Ecuador

Setabis cleomedes (Hewitson, 1870), *Cleomedes Metalmark*, Nicaragua to Panama

Calociasma icterica (Godman & Salvin, 1878), *Icterica Metalmark*, Costa Rica & Panama

Calociasma laius (Godman & Salvin, 1886), *Laius Metalmark*, Guatemala to El Salvador

Calociasma nycteus (Godman & Salvin, 1886), *Brown-and-white Metalmark*, SE Mexico to Panama

Nymphidium mantus (Cramer, 1775), *Mantus Metalmark*, Costa Rica to Venezuela & Brazil



- Nymphidium olinda H. Bates, 1865, Olinda Metalmark, Panama to Venezuela & Brazil
- Nymphidium lenocinium Schaus, 1913, Lenocinium Metalmark, SE Mexico (CHIS) to Colombia
- Nymphidium azanoides occidentalis Callaghan, 1986, Azanoides Metalmark, Costa Rica to W Ecuador
- Nymphidium ascolia ascolia Hewitson, [1853], Creamy Metalmark, S Mexico to Brazil
- Nymphidium smalli Callaghan, 1999, Callaghan's Metalmark, Panama
- Nymphidium haematostictum Godman & Salvin, 1878, Blood-spot Metalmark, Costa Rica & Panama
- Nymphidium onaeum Hewitson, 1869, Hewitson's Metalmark, S Mexico to Panama
- Nymphidium fulminans sardinata Callaghan, 1985, Dusky Metalmark, Colombia
- Nymphidium trinidad Callaghan, 1999, Trinidad Metalmark, Trinidad
- Catocyclotus adelina (Butler, 1872), Adelina Metalmark, Costa Rica to W Ecuador
- Archaeonympha smalli J. Hall & Harvey, 1998, Panamanian Metalmark, Nicaragua to C & E Panama
- Archaeonympha urichi (Vane-Wright, 1994, Vane-Wright's Metalmark, Trinidad, Panama
- Calicosama lilina (Butler, 1870), White-posted Metalmark, S Mexico to Panama, Trinidad
- Behemothia godmanii (Dewitz, 1877), Godman's Metalmark, E & W Mexico to Costa Rica
- Theope nycteis (Westwood, 1851), Eyed Theope, Costa Rica to Argentina, Guianas, Trinidad
- Theope archimedes zyzyxoxys D'Abrera, 1994, Striated Theope, Costa Rica to Colombia & Venezuela
- Theope matuta matuta Godman & Salvin, 1897, Giant Theope, Costa Rica & Panama
- Theope pseudopedias J. Hall, 1999, Hall's Theope, S Mexico to Costa Rica
- Theope pedias Herrich-Schäffer, [1853], Yellow-bottomed Theope, S Mexico to Brazil, Guianas, Trinidad
- Theope devriesi J. Hall & Willmott, 1996, DeVries' Theope, S Mexico (Chiapas) to W Ecuador
- Theope eudocia Westwood, 1851, Orange Theope, Honduras to Brazil, Guianas, Trinidad
- Theope acosma Stichel, 1910, Tawny Theope, Costa Rica to Brazil, Guiana
- Theope excelsa H. Bates, 1868, Elegant Theope, Panama to Amazonas, Guianas
- Theope kingi J. Hall & Willmott, 1996, King's Theope, Panama

Theope barea Godman & Salvin, 1878, Panamanian Theope, SW Mexico, Nicaragua to Brazil, French Guiana

Theope mundula Stichel, 1926, Stichel's Theope, Honduras to Brazil, French Guiana

Theope speciosa Godman & Salvin, 1897, Glazed Theope, Costa Rica to W Ecuador

Theope pieridoides C. Felder & R. Felder, 1865, White Theope, S Mexico to Brazil, French Guiana, Trinidad

Theope cratylus Godman & Salvin, 1886, Scallop-patched Theope, S Mexico to Colombia

Theope villai Beutelspacher, 1981, West-Mexican Theope, W Mexico (GRO & MEX)

Theope virgilius (Fabricius, 1793), Blue-based Theope, E & W Mexico to Brazil, Guianas, Trinidad, Netherlands Antilles

Theope eupolis Schaus, 1890, Veracruzan Theope, [= diores], W & S Mexico to Panama

Theope publius incompositus J. Hall, 1999, Shaded Theope, W Mexico & Yucatan Peninsula to El Salvador

Theope publius publius C. Felder & R. Fedler, 1861, Shaded Theope, Nicaragua to Peru & Venezuela

Theope bacenis Schaus, 1890, Curve-lined Theope, [= mania], E & W Mexico to Colombia

Theope basilea H. Bates, 1866, Straight-lined Theope, Costa Rica to W Ecuador

Theope phaeo Prittwitz, 1865, Falcate Theope, S Mexico (CHIS) to Brazil, Guianas, Trinidad

Theope guillaumei cecropia DeVries & Hall, 1996, Yellow-dusted Theope, Costa Rica

Theope decorata Godman & Salvin, 1878, Painted Theope, Nicaragua to Brazil, French Guiana

Theope lycaenina H. Bates, 1868, Gray Theope, Costa Rica to Brazil, Guianas, Trinidad

Theope leucanthe Bates, 1868, Faded Theope, Panama to Peru, Brazil, French Guiana, Trinidad, Venezuela

Theope foliorum H. Bates, 1868, Plain Theope, Panama to Peru, Brazil & Paraguay, Guianas, Trinidad

Theope wallacei J. Hall, 1998, Wallace's Theope, Panama to Peru, French Guiana

Stalachtis magdalena cleove Staudinger, 1888, Tiger Metalmark, Panama to Colombia

Family NYMPHALIDAE Rafinesque, 1815, BRUSHFOOTS,



Subfamily Libytheinae Boisduval, 1833, Snouts,

Libytheana carinenta carinenta (Cramer, 1777), American Snout, South America, [Panama?]

Libytheana carinenta mexicana Michener, 1943, American Snout, W & S Mexico to Panama

Libytheana carinenta streckeri Austin & J. Emmel, 1998, American Snout, SW USA (W TX to CA), far NW Mexico, strays far N

Libytheana carinenta larvata (Strecker, [1878]), American Snout, C & S TX, NE Mexico, strays far N (regularly to to E CO)

Libytheana carinenta bachmanii (Kirtland, 1851), American Snout, E North America, [rarely Cuba]

Libytheana motya (Hübner, [1823]), Cuban Snout, Cuba, [S TX as rare stray]

Libytheana terena (Godart, 1819), Antillean Snout, Hispaniola, Jamaica, Puerto Rico, [Cuba as stray?]

Libytheana fulvescens (Lathy, 1904), Dominican Snout, Dominica

Subfamily Danainae Boisduval, [1833], Monarch and relatives,

Tribe Danaini Boisduval, [1833]

Danaus plexippus plexippus (Linnaeus, 1758), Monarch, N & C America, Cuba, N Bahamas (to Crooked I.); migratory

Danaus plexippus megalippe (Hübner, [1826]), Monarch, E Cuba, S Bahamas, Gr. Antilles, Virgin Is., L. Antilles, Caymans

Danaus plexippus portoricensis A. Clark, 1941, Monarch, Puerto Rico; possibly only a form of *D. p. megalippe*

Danaus plexippus leucogyne (Butler, 1884), Monarch, Virgin Islands, N Leeward Is.; possibly a form of *D. p. megalippe*

Danaus gilippus thersippus (H. Bates, 1863), Queen, continental; SW USA & TX (strays far N) to Colombia

Danaus gilippus berenice (Cramer, 1779), Queen, SE USA, Bahamas, Cuba, Caymans

Danaus gilippus jamaicensis (H. Bates, 1864), Queen, Jamaica

Danaus gilippus cleothera (Godart, 1819), Queen, Hispaniola, Mona, rarely in W Puerto Rico



Danaus gilippus (Cramer, 1775) (S Lesser Antilles segregate), Queen, [nr. *xanthippus*], S Lesser Antilles

Danaus eresimus montezuma Talbot, 1943, Soldier, continental; S TX to Colombia (strays N)

Danaus eresimus tethys W. Forbes, [1944], Soldier, S Florida, Gr. Antilles (except P. Rico), Grand Cayman

Danaus eresimus eresimus (Cramer, 1777), Soldier, Grenada & Barbados, possibly only as vagrants from S

Danaus cleophile (Godart, 1819), Caribbean Queen, Jamaica & Hispaniola

Lycorea halia atergatis E. Doubleday, [1847], Tiger Mimic-Queen, continental; S TX (rare stray) to N South America, [St. Lucia]

Lycorea halia demeter C. Felder & R. Felder, 1865, Tiger Mimic-Queen, Cuba

Lycorea halia cleobaea (Godart, 1819), Tiger Mimic-Queen, Hispaniola, [Jamaica, Puerto Rico]

Lycorea ilione albescens (Distant, 1876), Clearwing Mimic-Queen, S Mexico to Panama

Anetia thirza thirza Geyer, [1833], Cloud-forest King, C Mexico to El Salvador

Anetia thirza insignis (Salvin, 1869), Cloud-forest King, Costa Rica & Panama

Anetia jaegeri (Ménétriés, 1832), Hispaniolan King, Hispaniola, [Jamaica?]

Anetia cubana (Salvin, 1869), Cuban King, E Cuba

Anetia briarea numidia Hübner, [1823], Many-spotted King, Cuba & Isla de Juventud

Anetia briarea briarea (Godart, 1819), Many-spotted King, Hispaniola

Anetia pantheratus clarescens (A. Hall, 1925), Great King, Cuba

Anetia pantheratus pantheratus (Martyn, 1797), Great King, Hispaniola

Tribe Ithomiini Godman & Salvin, 1879 (1878), Clearwings and Tigerwings,

Tithorea harmonia salvadoris Staudinger, 1885, Harmonia Tigerwing, S Chiapas to Honduras & El Salvador

Tithorea harmonia hippothous Godman & Salvin, 1879, Harmonia Tigerwing, SE Mexico & Guatemala

Tithorea harmonia helicaon Godman & Salvin, 1879, Harmonia Tigerwing, Nicaragua to Panama

Tithorea harmonia irene (Drury, 1782), Harmonia Tigerwing, Panama & Colombia

- Tithorea tarricina duenna* H. Bates, 1864, Cream-spotted Tigerwing, SE Mexico & Guatemala
- Tithorea tarricina pinthias* Godman & Salvin, 1878, Cream-spotted Tigerwing, Honduras to Panama
- Tithorea pacifica concordia* Willmott & Lamas, 2004, Pacific Tigerwing, E Panama
- Aeria eurimedia pacifica* Godman & Salvin, 1879, Banded Tigerwing, SE Mexico to Honduras
- Aeria eurimedia* (Cramer, 1777) (Costa Rican segregate), Banded Tigerwing, Costa Rica & Panama
- Aeria eurimedia agna* Godman & Salvin, 1879, Banded Tigerwing, Panama to NW Venezuela
- Eutresis dilucida* Staudinger, 1885, Smoky Tigerwing, Costa Rica & W Panama
- Eutresis hypereia theope* Godman & Salvin, 1877, Crisp Tigerwing, Costa Rica & Panama
- Eutresis hypereia* Doubleday, 1847 (Panamanian segregate), Crisp Tigerwing, Panama
- Olyras crathis staudingeri* Godman & Salvin, 1897, Crathis Tigerwing, Costa Rica & Panama
- Olyras crathis* Doubleday, 1847 (Panamanian segregate), Crathis Tigerwing, Panama
- Olyras insignis insignis* Salvin, 1869, Insignis Tigerwing, Costa Rica & Panama
- Olyras theon* H. Bates, 1866, Rusty Tigerwing, SE Mexico, Guatemala
- Melinaea lilis flavicans* C. Hoffmann, 1924, Mimic Tigerwing, W Mexico (NAY to GRO)
- Melinaea lilis imitata* H. Bates, 1864, Mimic Tigerwing, E & S Mexico to Costa Rica (Atlantic slope)
- Melinaea lilis parallelis* Butler, 1873, Mimic Tigerwing, SE Costa Rica & Panama (Atlantic slope)
- Melinaea lilis messatis* (Hewitson, [1865]), Mimic Tigerwing, Panama, Colombia
- Melinaea scylax* Salvin, 1871, Scylax Tigerwing, Costa Rica to Colombia (Pacific slope)
- Melinaea idae idae* (C. Felder & R. Felder, 1862), *Idae* Tigerwing, Panama, Colombia
- Methona confusa* Butler, 1873 (Panamanian segregate), *Confusa* Tigerwing, Panama
- Thyridia psidii melantho* H. Bates, 1866, *Melantho* Tigerwing, S Mexico (Chiapas) to Panama
- Scada zibia xanthina* (H. Bates, 1866), *Zibia* Tigerwing, Nicaragua to Panama
- Mechanitis lysimnia utemaia* Reakirt, 1866, *Lysimnia* Tigerwing, E & SW Mexico to Costa Rica
- Mechanitis lysimnia labotas* Distant, 1876, *Lysimnia* Tigerwing, Costa Rica

- Mechanitis lysimnia macrinus Hewitson, 1860, Lysimnia Tigerwing, Panama & Colombia
- Mechanitis menapis doryssus H. Bates, 1864, Menapis Tigerwing, SE Mexico & Guatemala
- Mechanitis menapis saturata Godman, 1901, Menapis Tigerwing, Honduras to Costa Rica
- Mechanitis menapis dariensis K. Brown, 1977, Menapis Tigerwing, Panama
- Mechanitis polymnia lycidice H. Bates, 1864, Polymnia Tigerwing, SE Mexico to Honduras
- Mechanitis polymnia isthmia H. Bates, 1863, Polymnia Tigerwing, Costa Rica & Panama
- Hyalyris excelsa decumana (Godman & Salvin, 1879), Excelsa Tigerwing, Costa Rica & Panama
- Hyalyris excelsa (C. Felder & R. Felder, 1862) (Panamanian segregates), Excelsa Tigerwing, Panama
- Napeogenes cranto paedaretus Godman & Salvin, 1878, Cranto Tigerwing, Costa Rica & Panama
- Napeogenes cranto reali R. Fox, 1968, Cranto Tigerwing, Panama
- Napeogenes cranto C. Felder & R. Felder, 1865 (Panamanian segregate), Cranto Tigerwing, Panama
- Napeogenes peridia hemisticta Schaus, 1913, Peridia Tigerwing, Costa Rica
- Napeogenes peridia hemimelanea Godman & Salvin, 1877, Peridia Tigerwing, Panama
- Napeogenes tolosa tolosa (Hewitson, 1855), Tolosa Tigerwing, SE Mexico, Guatemala, Honduras
- Napeogenes tolosa mombachoensis Brabant & Maes, 1997, Tolosa Tigerwing, Nicaragua
- Napeogenes tolosa amara Godman, 1899, Tolosa Tigerwing, Nicaragua to Panama
- Napeogenes tolosa (Hewitson, 1855) (Panamanian segregates), Tolosa Tigerwing, Panama
- Napeogenes stella (Hewitson, [1855]) (Panamanian segregate), Stella Tigerwing, Panama
- Hypothyris euclea valora (Haensch, 1909), Euclea Tigerwing, S Mexico to Panama
- Hypothyris euclea (Godart, 1819) (Costa Rican segregate), Euclea Tigerwing, Costa Rica
- Hypothyris lycaste dionaea (Hewitson, 1854), Lycaste Tigerwing, SE Mexico & Guatemala
- Hypothyris lycaste callispila (H. Bates, 1866), Lycaste Tigerwing, Costa Rica & Panama
- Hypothyris lycaste (Fabricius, 1793) (Panamanian segregate), Lycaste Tigerwing, Panama
- Hypothyris lycaste lycaste (Fabricius, 1793), Lycaste Tigerwing, Panama & Colombia
- Ithomia jucunda bolivari Schaus, 1913, Jucunda Clearwing, Nicaragua to Panama (Atlantic slope)

- Ithomia jucunda jucunda* Godman & Salvin, 1878, *Jucunda Clearwing*, Panama
- Ithomia jucunda centromaculata* G. Weymer, 1899, *Jucunda Clearwing*, Panama & Colombia
- Ithomia leila* Hewitson, 1852, *Leila's Clearwing*, SE Mexico & Guatemala
- Ithomia patilla* Hewitson, 1852, *Patilla Clearwing*, SE Mexico to Panama
- Ithomia diasia hippocrenis* H. Bates, 1866, *Diasia Clearwing*, Nicaragua to Panama
- Ithomia diasia galata* Hewitson, 1855, *Diasia Clearwing*, Panama to Colombia
- Ithomia heraldica* H. Bates, 1866 (Typical segregate), *Heraldica Clearwing*, Costa Rica & Panama
- Ithomia heraldica* H. Bates, 1866 (Panamanian segregate), *Heraldica Clearwing*, Panama
- Ithomia hyala* Hewitson, [1856] (Panamanian segregate), *Hyala Clearwing*, Costa Rica & Panama
- Ithomia iphianassa panamensis* H. Bates, 1863, *Iphinassa Clearwing*, Panama
- Ithomia celemia plaginota* Butler & H. Druce, 1872, *Celemia Clearwing*, Costa Rica & Panama
- Ithomia celemia* Hewitson, [1854] (Panamanian segregate), *Celemia Clearwing*, Panama
- Ithomia xenos* (H. Bates, 1866) (Typical segregate), *Xenos Clearwing*, Costa Rica & Panama
- Ithomia xenos* (H. Bates, 1866) (Panamanian segregate), *Xenos Clearwing*, Panama
- Ithomia terra vulcana* Haensch, 1909, *Terra Clearwing*, Costa Rica & Panama
- Hyposcada anchiala* (Hewitson, 1868) (Panamanian segregate), *Anchiala Clearwing*, Panama
- Hyposcada illinissa aesion* (Godman & Salvin, 1878), *Illinissa Clearwing*, Panama
- Hyposcada virginiana virginiana* (Hewitson, [1855]), *Virginiana Clearwing*, SE Mexico to Honduras
- Hyposcada virginiana evanides* Haensch, 1909, *Virginiana Clearwing*, Nicaragua to Panama
- Hyposcada virginiana adelphina* (H. Bates, 1866), *Virginiana Clearwing*, Panama
- Oleria makrena* (Hewitson, 1854) (Panamanian segregate), *Makrena Clearwing*, Panama
- Oleria paula* (Weymer, 1883) (Typical segregate), *Paula's Clearwing*, E & SW Mexico to Panama
- Oleria paula* (Weymer, 1883) (Panamanian segregate), *Paula's Clearwing*, Osa Peninsula, Costa Rica, to W Panama, Pacific slope
- Oleria rubescens* (Butler & H. Druce, 1872), *Rubescens Clearwing*, Nicaragua to Panama

- Oleria thiemei* (Oberthür, 1869), Thieme's Clearwing, Panama to Colombia
- Oleria vicina* (Salvin, 1869), Vicina Clearwing, Costa Rica & W Panama
- Oleria zea diazi* J. De la Maza & Lamas, 1978, 'Rusted' Zea Clearwing, SW Mexico
- Oleria zea zea* (Hewitson, [1855]), Zea Clearwing, SE Mexico to El Salvador & Honduras
- Oleria zelica pagasa* (H. Druce, 1875), Zelica Clearwing, Costa Rica & Panama
- Ceratinia tutia* (Hewitson, 1852) (Northern segregate), Tutia Clearwing, SE Mexico, Guatemala, Honduras
- Ceratinia tutia* (Hewitson, 1852) (Costa Rican segregate), Tutia Clearwing, Costa Rica
- Ceratinia tutia dorilla* (H. Bates, 1864), Tutia Clearwing, Panama
- Callithomia alexirrhoe megaleas* Godman & Salvin, 1898, Alex's Clearwing, [Panama], W Costa Rica
- Callithomia alexirrhoe panamensis* Godman & Salvin, 1878, Alex's Clearwing, Panama
- Callithomia hezia wellingi* R. Fox, 1968, Hezia Clearwing, SW Mexico (S Oaxaca; Sierra Madre del Sur)
- Callithomia hezia hedila* Godman & Salvin, 1879, Hezia Clearwing, SE Mexico to Guatemala
- Callithomia hezia hezia* (Hewitson, [1854]), Hezia Clearwing, SE Mexico to Honduras
- Callithomia hezia smalli* R. Fox, 1968, Hezia Clearwing, Panama
- Callithomia lenea agrippina* (Hewitson, 1863), Lenea Clearwing, Panama to Colombia
- Dircenna dero* (Hübner, 1823) (Northern segregate), Dero Clearwing, SE Mexico & Guatemala
- Dircenna dero euchytna* (C. Felder & R. Felder, 1865) , Dero Clearwing, Nicaragua to Colombia & Venezuela
- Dircenna jemina* (Geyer, 1837) (Northern segregate), Jemina Clearwing, E Mexico to Panama
- Dircenna jemina chiriquensis* Haensch, 1909, Jemina Clearwing, Costa Rica & Panama (Pacific slope)
- Dircenna klugii* (Geyer, 1837) (Typical segregate), Klug's Clearwing, S TX (very rare stray), E & W Mexico to Nicaragua
- Dircenna klugii* (Geyer, 1837) (Southern segregate), Klug's Clearwing, Costa Rica & Panama
- Dircenna olyras relata* Butler & Druce, 1872, Olyras Clearwing, Nicaragua to Panama
- Dircenna olyras* (C. Felder & R. Felder, 1865) (Panamanian segregate), Olyras Clearwing, Panama

Hyalenna alidella exsulans Lamas & Willmott, 2006, Alidella Clearwing, Panama (Darien)

Episcada salvinia portilla J. De la Maza & Lamas, 1978, 'Rusted' Salvin's Clearwing, W Mexico (NAY to OAX)

Episcada salvinia salvinia (H. Bates, 1864), Salvin's Clearwing, E Mexico, Guatemala

Episcada salvinia opleri Lamas, 1978, Salvin's Clearwing, Costa Rica & Panama

Pteronymia alcmena (Godman & Salvin, 1877) (Typical segregate), Alcmena Clearwing, S Mexico (Chiapas), Guatemala, Honduras, Nicaragua

Pteronymia alcmena (Godman & Salvin, 1877) (Panamanian segregate), Alcmena Clearwing, Panama

Pteronymia aletta agalla Godman & Salvin, 1879, Aletta Clearwing, Costa Rica & Panama (Pacific slope)

Pteronymia aletta (Hewitson, [1855]) (Panamanian segregate), Aletta Clearwing, Panama

Pteronymia artena praedicta J. De la Maza & Lamas, 1982, 'Rusted' Artena Clearwing, SW Mexico (GRO, S OAX)

Pteronymia artena artena (Hewitson, [1855]), Artena Clearwing, E Mexico, Guatemala, Honduras

Pteronymia artena (Hewitson, [1855]) (Costa Rican segregate), Artena Clearwing, Costa Rica

Pteronymia artena (Hewitson, [1855]) (Panamanian segregate), Artena Clearwing, Panama

Pteronymia cotytto (Guérin-Ménéville, [1844]) (Typical segregate), Cotytto Clearwing, E & S Mexico to Nicaragua, [Costa Rica?]

Pteronymia cotytto (Guérin-Ménéville, [1844]) (Panamanian segregate), Cotytto Clearwing, Panama

Pteronymia donella donata Haensch, 1909, Donella Clearwing, Costa Rica & Panama (Pacific slope)

Pteronymia donella (C. Felder & R. Felder, 1865) (Panamanian segregate), Donella Clearwing, Costa Rica & Panama

Pteronymia fulvimargo Butler & H. Druce, 1872, Fulvimargo Clearwing, Costa Rica & W Panama

Pteronymia fumida fumida Schaus, 1913, Fumida Clearwing, Costa Rica & Panama

Pteronymia hara (Hewitson, 1877) (Costa Rican segregate), Hara Clearwing, Costa Rica

Pteronymia hara (Hewitson, 1877) (Panamanian segregate), Hara Clearwing, Panama

Pteronymia latilla fulvescens Godman & Salvin, 1879, Latilla Clearwing, Costa Rica & W Panama

- Pteronymia latilla* (Hewitson, [1855]) (Panamanian segregate), Latilla Clearwing, Panama
- Pteronymia lonera* (Butler & H. Druce, 1872), Lonera Clearwing, Costa Rica & W Panama
- Pteronymia obscuratus* (Fabricius, 1793), Obscure Clearwing, Panama
- Pteronymia parva* (Salvin, 1869), Parva Clearwing , [S Mexico?], Costa Rica & Panama
- Pteronymia picta notilla* Butler & H. Druce, 1872, Picta Clearwing, Costa Rica to Panama
- Pteronymia picta* (Salvin, 1869) (Panamanian segregate), Picta Clearwing, Panama
- Pteronymia rufocincta* (Salvin, 1869), West-Mexican Clearwing, W Mexico (NAY to OAX)
- Pteronymia simplex timagenes* Godman & Salvin, 1889, Simple Clearwing , SW Mexico (GRO, S OAX)
- Pteronymia simplex fenochioi* Lamas, 1978, Simple Clearwing , E Mexico to Nicaragua
- Pteronymia simplex simplex* (Salvin, 1869), Simple Clearwing , Costa Rica & Panama
- Godyris kedema furina* (Godman & Salvin, [1879]), Kedema Clearwing, Panama
- Godyris kedema* (Hewitson, [1855]) (Panamanian segregate), Kedema Clearwing, Panama
- Godyris nero* (Hewitson, [1855]) (Typical segregate), Nero Clearwing , E Mexico to Nicaragua
- Godyris nero* (Hewitson, [1855]) (Southern segregate), Nero Clearwing , Costa Rica
- Godyris zavaleta sosunga* (Reakirt, [1866]), Variegated Clearwing , SE Mexico to Nicaragua
- Godyris zavaleta caesiopicta* (Niepelt, 1915), Variegated Clearwing , [= sorites], Costa Rica & Panama (Atlantic slope)
- Godyris zavaleta zygia* (Godman & Salvin, 1877), Variegated Clearwing, Costa Rica & Panama (Pacific slope)
- Godyris zavaleta* (Hewitson, [1855]) (Panamanian segregates), Variegated Clearwing , Panama
- Hypoleria lavinia cassotis* (H. Bates, 1864), Lavinia Clearwing , S Mexico to Honduras
- Hypoleria lavinia liberia* Godman & Salvin, 1879, Lavinia Clearwing , Panama
- Hypoleria lavinia rhene* (Godman & Salvin, 1878), Lavinia Clearwing, Nicaragua to W Panama
- Hypoleria lavinia vanilia* (Herrich-Schäffer, 1865), Lavinia Clearwing, Panama to Colombia
- Greta andromica lyra* (Salvin, 1869), Andromica Clearwing , E Mexico to Panama
- Greta andromica* (Hewitson, [1855]) (Panamanian segregate), Andromica Clearwing , Panama

Greta annette moschion (Godman, 1901), 'Rusted' White-spotted Clearwing, W Mexico (NAY to S OAX)

Greta annette annette (Guérin-Méneville, [1844]), White-spotted Clearwing, E Mexico, Guatemala, Honduras

Greta annette championi Lamas, 1978, White-spotted Clearwing, Nicaragua to Panama

Greta morgane morgane (Geyer, 1837), Rusty Clearwing, W Mexico (NAY to S OAX)

Greta morgane oto (Hewitson, [1855]), 'Darkened' Rusty Clearwing, E Mexico to Panama

Greta polissena umbrana (Haensch, 1908), Polissena Clearwing, Costa Rica & Panama

Greta gabiglooris (Brabant & Bischler, 2005), Gabi's Clearwing, Nicaragua to W Panama

Greta sp. undescribed (Lamas & Willmott), Undescribed Clearwing (Costa Rica), Costa Rica

Greta diaphanus diaphanus (Drury, 1773), Antillean Clearwing, Jamaica

Greta diaphanus quisqueya (R. Fox, 1963), Antillean Clearwing, Dominican Republic

Greta cubana (Herrich-Schäffer, 1862), Cuban Clearwing, Cuba

Heterosais giulia cadra (Godman & Salvin, 1878), Giulia Clearwing, Nicaragua to Panama

Heterosais giulia (Hewitson, [1855]) (Panamanian segregate), Giulia Clearwing, Panama

Pseudoscada timna pusio (Godman & Salvin, 1877), Timna Clearwing, Nicaragua to Panama

Pseudoscada timna saturata (Staudinger, 1885), Timna Clearwing, Panama and Colombia

Subfamily Heliconiinae Swainson, 1822, Actinotes, Heliconians and Fritillaries,

Tribe Acraeini Boisduval, 1833, Actinotes,

Altinote ozomene nox (H. Bates, 1864), Lamplight Actinote, [= *leucomelas*], E & S Mexico to Panama

Altinote stratonice oaxaca (J. Y. Miller & L. Miller, 1979), Orange-disked Actinote, S Oaxaca (Sierra Madre del Sur)

Actinote antea (Doubleday, [1847]) (Central American segregate), Antea Actinote, S Mexico to Panama

Actinote guatemalena guerrerensis J. De la Maza, 1982, Guatemalan Actinote, SW Mexico (Sierra Madre del Sur)

Actinote guatemalena veraecrucis Jordan, 1913, Guatemalan Actinote, SE Mexico

Actinote guatemalena guatemalena (H. Bates, 1864), Guatemalan Actinote, Chiapas to Costa Rica

Actinote melampeplos Godman & Salvin, 1881, Bow-winged Actinote, S Mexico (S Oaxaca), Ecuador

Actinote lapitha lapitha (Staudinger, 1885), Pale Actinote, C Chiapas to Costa Rica & Panama

Actinote lapitha calderoni Schaus, 1920, Pale Actinote, W Chiapas to El Salvador

Tribe Heliconiini Swainson, 1822, Longwings,

Agraulis vanillae vanillae (Linnaeus, 1758), Gulf Fritillary, S Lesser Antilles (St. Lucia, Barbados), Trinidad, N South America, Panama

Agraulis vanillae incarnata (N. Riley, 1926), Gulf Fritillary, SW USA, C & S TX (strays far N) through Central America; Hawaii

Agraulis vanillae nigrior Michener, 1942, Gulf Fritillary, SE USA (strays far N)

Agraulis vanillae insularis Maynard, 1889, Gulf Fritillary, Bahamas, West Indies except southern Lesser Antilles

Dione moneta poeyii Butler, 1873, Mexican Silverspot, E & W Mexico (strays N into USA) to Panama

Dione juno huascuma (Reakirt, 1866), Juno Longwing, E & W Mexico through Central America

Dione juno juno (Cramer, 1779), Juno Longwing, Lesser Antilles from Martinique southward, NE South America

Dryadula phaetusa (Linnaeus, 1758), Banded Longwing, S TX (rare stray), E & S Mexico to Brazil

Dryas iulia moderata (N. Riley, 1926), Julia, S TX (strays far N), E & W Mexico through Central America

Dryas iulia largo Clench, 1975, Julia, S FL (strays N)

Dryas iulia nudeola (M. Bates, 1934), Julia, Cuba

Dryas iulia carteri (Riley, 1926), Julia, N Bahamas

Dryas iulia zoe L. Miller & Steinhauser, 1992, Julia, Grand Cayman & Cayman Brac

Dryas iulia delila (Fabricius, 1775), Julia, Jamaica

Dryas iulia fucatus (Boddaert, 1783), *Julia* , [= *hispaniola*], Hispaniola & satellite islands

Dryas iulia iulia (Fabricius, 1775), *Julia* , Mona, Puerto Rico, Tortola, St. John, St. Thomas, St. Croix

Dryas iulia warneri (A. Hall, 1936), *Julia* , St. Kitts, Montserrat, Saba

Dryas iulia dominicana (A. Hall, 1917), *Julia* , Guadeloupe & Dominica

Dryas iulia martinica Enrico & Pinchon, 1969, *Julia* , Martinique

Dryas iulia lucia (Riley, 1926), *Julia* , St. Lucia

Dryas iulia framptoni (Riley, 1926), *Julia* , St. Vincent, some Grenadines, Grenada, [Barbados?]

Philaethria diatonica (Fruhstorfer, 1912), Northern Green Longwing, [= Central American "dido" records], S Mexico to Panama (strays)

Eueides aliphera gracilis Stichel, 1903, Fine-lined Longwing, E & S Mexico to Panama

Eueides lineata Salvin & Godman, 1868, Thick-edged Longwing, S Mexico to Panama

Eueides lybia olympia (Fabricius, 1793), Sharp-edged Longwing, Atlantic slope from Nicaragua to Colombia

Eueides lybia lybioides Staudinger, 1876, Sharp-edged Longwing, Pacific slope of Costa Rica and Panama

Eueides procula asidia Schaus, 1920, Darkened Longwing, SE Mexico to Nicaragua

Eueides procula vulgiformis Butler & H. Druce, 1872, Darkened Longwing, Costa Rica & Panama

Eueides vibilia vialis Stichel, 1903, *Vibilia* Longwing, SE Mexico to Panama

Eueides isabella nigricornis R. G. De la Maza, 1982, *Isabella's* Longwing, SW Mexico

Eueides isabella eva (Fabricius, 1793), *Isabella's* Longwing, [= *zoracon*], E Mexico (strays far N) through Central America

Eueides isabella cleobaea Geyer, 1832, *Isabella's* Longwing, Cuba

Eueides isabella melphis (Godart, 1819), *Isabella's* Longwing, Hispaniola

Heliconius charithonia vazquezae W. Comstock & F. Brown, 1950, Zebra Longwing, S TX (strays far N), E & W Mexico through Central America

Heliconius charithonia tuckeri W. Comstock & F. Brown, 1950, Zebra Longwing, E TX to FL (strays N), Grand Bahama, Great Abaco

Heliconius charithonia ramsdeni W. Comstock & F. Brown, 1950, Zebra Longwing, Cuba, Andros, [New Providence?]

Heliconius charithonia simulator Röber, 1921, Zebra Longwing, Jamaica

Heliconius charithonia churchi W. Comstock & F. Brown, 1950, Zebra Longwing, Hispaniola & satellite islands

Heliconius charithonia charithonia (Linnaeus, 1767), Zebra Longwing, Mona, Puerto Rico, Virgin Islands, some Leeward Is. to Montserrat

Heliconius charithonia antiquus Lamas, 1988, Zebra Longwing, St Kitts & Antigua; as an occasional form on other islands

Heliconius hewitsoni Hewitson, 1875, Hewitson's Longwing, Costa Rica & Panama; Pacific slope

Heliconius sapho leuce Doubleday, 1847, Sapho Longwing, SE Mexico to Costa Rica; Atlantic slope

Heliconius sapho sapho (D. Drury, 1782), Sapho Longwing, Panama

Heliconius eleuchia eleuchia Hewitson, [1854], White-edged Longwing, Costa Rica to Colombia

Heliconius sara veraepacis H. Bates, 1864, Sara Longwing, SE Mexico to Costa Rica (Atlantic Slope)

Heliconius sara fulgidus Stichel 1906, Sara Longwing, Guatemala to Panama; Atlantic slope

Heliconius sara theudela Hewitson, 1874, Sara Longwing, Costa Rica & Panama; Pacific slope

Heliconius sara magdalena H. Bates, 1864, Sara Longwing, Panama to Colombia & Venezuela

Heliconius hortense Guérin-Ménéville, [1844], Mexican Longwing, E & W Mexico to El Salvador & Honduras

Heliconius clysonymus montanus Salvin, 1871, Montane Longwing, Costa Rica & Panama

Heliconius erato cruentus Lamas, 1998, Crimson-patched Longwing, W Mexico

Heliconius erato petiverana (E. Doubleday, 1847), Crimson-patched Longwing, S TX, E Mexico to Panama

Heliconius erato demophoon Ménétriés, 1855, Crimson-patched Longwing, Nicaragua

Heliconius erato hydara Hewitson, 1867, Crimson-patched Longwing, Panama to Brazil

Heliconius erato venus Staudinger, 1882, Crimson-patched Longwing, SE Panama (Darien), W Colombia (Choco)

Heliconius hecalesia octavia H. Bates, 1866, Five-spotted Longwing, SE Mexico to Nicaragua

Heliconius hecalesia formosus H. Bates, 1866, Five-spotted Longwing, Costa Rica & Panama

Heliconius hecale zuleika Hewitson, 1854, *Hecale* Longwing, SE Mexico to Panama

Heliconius hecale fornarina Hewitson, 1854, *Hecale* Longwing, C & SW Chiapas to Guatemala

Heliconius hecale discomaculatus Weymer, 1891, *Hecale* Longwing, Honduras

Heliconius hecale melicerta H. Bates, 1866, *Hecale* Longwing, Panama & Colombia

Heliconius ethilla claudia Godman & Salvin, 1881, Tawny-striped Longwing, Panama

Heliconius ismenius telchinia Doubleday, 1847, Tiger-striped Longwing , E Mexico to Panama

Heliconius ismenius clarescens Butler, 1875, Tiger-striped Longwing , Costa Rica & Panama

Heliconius ismenius fasciatus Godman & Salvin, 1877, Tiger-striped Longwing , Panama

Heliconius cydno galanthus H. Bates, 1864, *Cydno* Longwing, SE Mexico to E Costa Rica

Heliconius cydno chioneus H. Bates, 1864, *Cydno* Longwing, SE Costa Rica to Colombia

Heliconius pachinus Salvin, 1871, *Pachinus* Longwing, Pacific slope of Costa Rica and Panama

Heliconius melpomene rosina Boisduval, 1870, *Melpomene* Longwing, Costa Rica & Panama

Heliconius melpomene vulcanus Butler, 1865, *Melpomene* Longwing, Panama & Colombia

Heliconius doris viridis Staudinger, 1885, *Doris* Longwing, SE Mexico to Panama

Tribe Argynnini Swainson, 1833, Fritillaries,

Euptoieta claudia (Cramer, 1775), Variegated Fritillary, S N Am. (strays far N) to Panama, Bahamas, Gr. Antilles, Barbuda

Euptoieta hegesia meridiania Stichel, 1938, Mexican Fritillary , [= *hoffmanni*], S TX, W MX (strays N), E Mexico to Argentina

Euptoieta hegesia hegesia (Cramer, 1779), Mexican Fritillary , Bahamas, Caymans, Jamaica, Cuba, Hispaniola, Mona

Euptoieta hegesia watsoni W. Comstock, 1944, Mexican Fritillary , Puerto Rico

Boloria alaskensis alaskensis (W. Holland, 1900), Mountain Fritillary, Nunavut W to AK, S to C BC

Boloria alaskensis halli Klots, 1940, Mountain Fritillary, Wind River Mountains, NW WY

Boloria eunomia tricularis (Hübner, [1821]), Bog Fritillary, Labrador & vic.

Boloria eunomia dawsoni (W. Barnes & McDunnough, 1916), Bog Fritillary, N WI, MI, MN, S boreal Canada to Yukon in taiga habitats

Boloria eunomia nichollae (W. Barnes & Benjamin, 1926), Bog Fritillary, Rocky Mountains of C BC & ALTA

Boloria eunomia denali (Klots, 1940), Bog Fritillary, AK, N montane YK

Boloria eunomia ursadentis Ferris & Groothuis, 1971, Bog Fritillary, Beartooth Plateau of N WY and S MT

Boloria eunomia laddi (Klots, 1940), Bog Fritillary, Snowy Range of Albany and Carbon Cos., WY, similar in Big Horn Mts of N-central WY

Boloria eunomia caelestis (Hemming, 1933), Bog Fritillary, north and central Colorado Rocky Mountains

Boloria selene myrina (Cramer, 1777), Silver-bordered Fritillary, MORE INFO ...

Boloria selene nebraskensis (W. Holland, 1928), Silver-bordered Fritillary, MORE INFO ...

Boloria selene sabulocollis Kohler, 1977, Silver-bordered Fritillary, MORE INFO ...

Boloria selene tollandensis (W. Barnes & Benjamin, 1925), Silver-bordered Fritillary, MORE INFO ...

Boloria selene ([Denis & Schiffermüller], 1775) (Pacific Northwestern segregates), Silver-bordered Fritillary, E OR, E WA, S ID, NW WY

Boloria selene albequina (W. Holland, 1928), Silver-bordered Fritillary, MORE INFO ...

Boloria selene atrocotalis (Huard, 1927), Silver-bordered Fritillary, MORE INFO ...

Boloria selene terraenovae (W. Holland, 1928), Silver-bordered Fritillary, MORE INFO ...

Boloria natazhati natazhati (Gibson, 1920), Cryptic Fritillary, Wrangell & St. Elias Mts., Montana Mt., YK

Boloria natazhati nabokovi D. Stallings & Turner, 1947, Cryptic Fritillary, N BC, probably S YK, White Mt., MacKenzie Mts., Bernard H., NWT

Boloria natazhati bankslandia J. Shepard, 1998, Cryptic Fritillary, Victoria Island, NWT (and adjacent mainland)

Boloria freija freija (Thunberg, 1791), Freija Fritillary, MORE INFO ...

Boloria freija tarquinius (J. Curtis, 1835), Freija Fritillary, E Canadian arctic tundra

Boloria freija browni (Higgins, 1953), Freija Fritillary, MORE INFO ...

Boloria chariclea montinus (Scudder, 1863), Purplish Fritillary, MORE INFO ...

Boloria chariclea boisduvalii (Duponchel, [1832]), Purplish Fritillary, SE Canadian arctic (occurs between *B. c. arctica* & *B. c. grandis*)

Boloria chariclea arctica (Zetterstedt, [1839]), Purplish Fritillary, NE Canadian arctic to N YK

Boloria chariclea grandis (W. Barnes & Benjamin, 1916), Purplish Fritillary, taiga from Labrador to YK & BC, [to MT?]

Boloria chariclea butleri (W. H. Edwards, 1883), Purplish Fritillary, montane AK & YK to N BC

Boloria chariclea rainieri (W. Barnes & McDunnough, 1913), Purplish Fritillary, MORE INFO ...

Boloria chariclea ingens (W. Barnes & McDunnough, 1918), Purplish Fritillary, MORE INFO ...

Boloria chariclea (Schneider, 1794) (NW Colorado segregate), Purplish Fritillary, Moffat and NW Routt counties, Colorado

Boloria chariclea helena (W. H. Edwards, 1871), Purplish Fritillary, MORE INFO ...

Boloria kriemhild (Strecker, 1879), Relict Fritillary, MORE INFO ...

Boloria epithore epithore (W. H. Edwards, 1864), Pacific Fritillary, MORE INFO ...

Boloria epithore sierra E. Perkins, 1973, Pacific Fritillary, MORE INFO ...

Boloria epithore chermocki E. Perkins & S. Perkins, 1966, Pacific Fritillary, MORE INFO ...

Boloria epithore sigridae (J. Shepard, 2001), Pacific Fritillary, MORE INFO ...

Boloria epithore (W. H. Edwards, 1864) (NE Oregon segregate), Pacific Fritillary, NE Oregon and surrounding areas

Boloria improba improba (Butler, 1877), Dingy Fritillary, Scandanavia, Nunavut, NWT

Boloria improba youngi (W. Holland, 1900), Dingy Fritillary, AK, YK

Boloria improba nunatak Scott, 1998, Dingy Fritillary, Rocky Mountains of Alberta & British Columbia

Boloria improba harryi (Ferris, 1984), Dingy Fritillary, NW Wyoming

Boloria improba acrocneuma Gall & Sperling, 1980, Dingy Fritillary; Uncompahgre Fritillary, SW Colorado Rocky Mountains

Boloria bellona bellona (Fabricius, 1775), Meadow Fritillary, MORE INFO ...

Boloria bellona toddi (W. Holland, 1928), Meadow Fritillary, MORE INFO ...

Boloria bellona jenistai D. Stallings & Turner, 1947, Meadow Fritillary, boreal habitats from YK to Labrador

Boloria bellona (Fabricius, 1775) (S Rocky Mountain segregate), Meadow Fritillary, Wyoming, NW Colorado

Boloria frigga saga (Staudinger, 1861), Frigga Fritillary, MORE INFO ...



Boloria frigga gibsoni (W. Barnes & McDunnough, 1926), Frigga Fritillary, arctic; AK to Baffin Island

Boloria frigga sagata (W. Barnes & Benjamin, 1923), Frigga Fritillary, MORE INFO ...

Boloria alberta (W. H. Edwards, 1890), Alberta Fritillary, MORE INFO ...

Boloria polaris polaris (Boisduval, [1828]), Polaris Fritillary, MORE INFO ...

Boloria polaris stellata Masters, 1972, Polaris Fritillary, vic. Churchill, Manitoba

Boloria astarte astarte (E. Doubleday, [1847]), Astarte Fritillary, far N WA, MT, Rocky Mountains of BC-Alberta

Boloria astarte distincta (Gibson, 1920), Astarte Fritillary, most of AK, YK, NW BC, W NWT

Boloria astarte tschukotkensis Wyatt, 1961, Astarte Fritillary, Seward Peninsula, AK

Speyeria diana (Cramer, 1777), Diana Fritillary, MORE INFO ...

Speyeria cybele cybele (Fabricius, 1775), Great Spangled Fritillary, MORE INFO ...

Speyeria cybele novascotiae (McDunnough, 1935), Great Spangled Fritillary, MORE INFO ...

Speyeria cybele krautwurmi (W. Holland, 1931), Great Spangled Fritillary, MORE INFO ...

Speyeria cybele pseudocarpenteri (F. Chermock & R. Chermock, 1940), Great Spangled Fritillary, MORE INFO ...

Speyeria cybele carpenterii (W. H. Edwards, 1876), Great Spangled Fritillary, MORE INFO ...

Speyeria cybele charlottii (W. Barnes, 1897), Great Spangled Fritillary, MORE INFO ...

Speyeria cybele letona dos Passos & Grey, 1945, Great Spangled Fritillary, MORE INFO ...

Speyeria cybele leto (Behr, 1862), Great Spangled Fritillary, MORE INFO ...

Speyeria cybele pugetensis F. Chermock & Frechin, 1947, Great Spangled Fritillary, MORE INFO ...

Speyeria cybele eileenae J. Emmel, T. Emmel & Mattoon, 1998, Great Spangled Fritillary, MORE INFO ...

Speyeria aphrodite cullasaja Gatrell, 1998, Aphrodite Fritillary, MORE INFO ...

Speyeria aphrodite aphrodite (Fabricius, 1787), Aphrodite Fritillary, MORE INFO ...

Speyeria aphrodite alcestis (W. H. Edwards, [1877]), Aphrodite Fritillary, MORE INFO ...

Speyeria aphrodite ethne (Hemming, 1933), Aphrodite Fritillary, MORE INFO ...

Speyeria aphrodite (Fabricius, 1789) (W Colorado segregate), Aphrodite Fritillary, W Colorado

Speyeria aphrodite byblis (W. Barnes & Benjamin, 1926), Aphrodite Fritillary, MORE INFO ...

Speyeria aphrodite columbia (Hy. Edwards, 1877), *Aphrodite Fritillary*, [MORE INFO ...](#)

Speyeria aphrodite whitehousei (Gunder, 1932), *Aphrodite Fritillary*, [MORE INFO ...](#)

Speyeria aphrodite manitoba (F. Chermock & R. Chermock, 1940), *Aphrodite Fritillary*, [MORE INFO ...](#)

Speyeria aphrodite winni (Gunder, 1932), *Aphrodite Fritillary*, [MORE INFO ...](#)

Speyeria idalia idalia (Drury, 1773), *Regal Fritillary*, [MORE INFO ...](#)

Speyeria idalia occidentalis B. Williams, 2002, *Regal Fritillary*, [MORE INFO ...](#)

Speyeria nokomis wenona dos Passos & Grey, 1945, *Nokomis Fritillary*, NE Mexico

Speyeria nokomis melaena Mooser & García, 1980, *Nokomis Fritillary*, C Mexico (Aguascalientes)

Speyeria nokomis coerulescens (W. Holland, 1900), *Nokomis Fritillary*, NW Mexico, extirpated from SE AZ

Speyeria nokomis nitocris (W. H. Edwards, 1874), *Nokomis Fritillary*, [MORE INFO ...](#)

Speyeria nokomis nokomis (W. H. Edwards, 1862), *Nokomis Fritillary*, [MORE INFO ...](#)

Speyeria nokomis tularosa (R. Holland, 2010), *Nokomis Fritillary*, [MORE INFO ...](#)

Speyeria nokomis apacheana (Skinner, 1918), *Nokomis Fritillary*, [MORE INFO ...](#)

Speyeria nokomis carsonensis Austin, 1998, *Nokomis Fritillary*, [MORE INFO ...](#)

Speyeria edwardsii (Reakirt, 1866), *Edwards' Fritillary*, [MORE INFO ...](#)

Speyeria coronis semiramis (W. H. Edwards, 1886), *Coronis Fritillary* , [MORE INFO ...](#)

Speyeria coronis hennei (Gunder, 1934), *Coronis Fritillary* , [MORE INFO ...](#)

Speyeria coronis coronis (Behr, 1864), *Coronis Fritillary* , [MORE INFO ...](#)

Speyeria coronis simaetha dos Passos & Grey, 1945, *Coronis Fritillary* , [MORE INFO ...](#)

Speyeria coronis snyderi (Skinner, 1897), *Coronis Fritillary* , [MORE INFO ...](#)

Speyeria coronis halcyone (W. H. Edwards, [1869]), *Coronis Fritillary* , [MORE INFO ...](#)

Speyeria carolae (dos Passos & Grey, 1942), *Carol's Fritillary*, [MORE INFO ...](#)

Speyeria zerene sitka Hammond, Harry & McCorkle, 2001, *Zerene Fritillary*, [MORE INFO ...](#)

Speyeria zerene bremnerii (W. H. Edwards, 1872), *Zerene Fritillary*, [MORE INFO ...](#)

Speyeria zerene (Boisduval, 1852) (Willamette Valley, W OR), *Zerene Fritillary*, apparently extinct

Speyeria zerene hippolyta (W. H. Edwards, 1879), *Zerene Fritillary*, [MORE INFO ...](#)



Speyeria zerene gloriosa Moeck, 1957, Zerene Fritillary, [MORE INFO ...](#)

Speyeria zerene (Boisduval, 1852) (S OR coastal segregate), Zerene Fritillary, [MORE INFO ...](#)

Speyeria zerene behrensii (W. H. Edwards, 1869), Zerene Fritillary, [MORE INFO ...](#)

Speyeria zerene sonomensis J. Emmel, T. Emmel & Mattoon, 1998, Zerene Fritillary, [MORE INFO ...](#)

Speyeria zerene puntareyes J. Emmel & T. Emmel, 1998, Zerene Fritillary, [MORE INFO ...](#)

Speyeria zerene myrtleae dos Passos & Grey, 1945, Zerene Fritillary, [MORE INFO ...](#)

Speyeria zerene monticola (Behr, 1863), Zerene Fritillary, [MORE INFO ...](#)

Speyeria zerene malcolmi (J. A. Comstock, 1920), Zerene Fritillary, [MORE INFO ...](#)

Speyeria zerene zerene (Boisduval, 1852), Zerene Fritillary, [MORE INFO ...](#)

Speyeria zerene (Boisduval, 1852) (E-central OR Cascades), Zerene Fritillary, [MORE INFO ...](#)

Speyeria zerene gunderi (J. A. Comstock, 1925), Zerene Fritillary, [MORE INFO ...](#)

Speyeria zerene picta (McDunnough, 1924), Zerene Fritillary, [MORE INFO ...](#)

Speyeria zerene platina (Skinner, 1897), Zerene Fritillary, [MORE INFO ...](#)

Speyeria zerene sinope dos Passos & Grey, 1945, Zerene Fritillary, [MORE INFO ...](#)

Speyeria callippe adiateoides J. Emmel, T. Emmel & Mattoon, 1998, Callippe Fritillary , [MORE INFO ...](#)

Speyeria callippe liliana (Hy. Edwards, 1877), Callippe Fritillary , [MORE INFO ...](#)

Speyeria callippe callippe (Boisduval, 1852), Callippe Fritillary , [MORE INFO ...](#)

Speyeria callippe comstocki (Gunder, 1925), Callippe Fritillary , [MORE INFO ...](#)

Speyeria callippe macaria (W. H. Edwards, 1877), Callippe Fritillary , [MORE INFO ...](#)

Speyeria callippe laurina (W. G. Wright, 1905), Callippe Fritillary , [MORE INFO ...](#)

Speyeria callippe rupestris (Behr, 1863), Callippe Fritillary , [MORE INFO ...](#)

Speyeria callippe inornata (W. H. Edwards, 1872), Callippe Fritillary , [MORE INFO ...](#)

Speyeria callippe juba (Boisduval, 1869), Callippe Fritillary , [MORE INFO ...](#)

Speyeria callippe hagemani J. Emmel, T. Emmel & Mattoon, 1998, Callippe Fritillary , [MORE INFO ...](#)

Speyeria callippe shasta J. Emmel, T. Emmel & Mattoon, 1998, Callippe Fritillary , [MORE INFO ...](#)



- Speyeria callippe elaine dos Passos & Grey, 1945, Callippe Fritillary , MORE INFO ...
- Speyeria callippe (Boisduval, 1852) (N Siskiyou/ W Cascades, low elevations), Callippe Fritillary , N Siskiyou, W Cascades, Oregon, below 3500'
- Speyeria callippe (Boisduval, 1852) (W OR Cascades, high elevations), Callippe Fritillary , W OR Cascades, above 3500'
- Speyeria callippe semivirida (McDunnough, 1924), Callippe Fritillary , MORE INFO ...
- Speyeria callippe chilcotinensis C. Guppy & J. Shepard, 2001, Callippe Fritillary , MORE INFO ...
- Speyeria callippe nevadensis (W. H. Edwards, 1870), Callippe Fritillary , MORE INFO ...
- Speyeria callippe harmonia dos Passos & Grey, 1945, Callippe Fritillary , MORE INFO ...
- Speyeria callippe calgariana (McDunnough, 1924), Callippe Fritillary , MORE INFO ...
- Speyeria callippe gallatini (McDunnough, 1929), Callippe Fritillary , MORE INFO ...
- Speyeria callippe meadii (W. H. Edwards, 1872), Callippe Fritillary , MORE INFO ...
- Speyeria egleis tehachapina (J. A. Comstock, 1920), Great Basin Fritillary, MORE INFO ...
- Speyeria egleis egleis (Behr, 1862), Great Basin Fritillary, MORE INFO ...
- Speyeria egleis (Behr, 1862) (Warner Mts. segregate), Great Basin Fritillary, Warner Mts., Lake Co. OR / Modoc Co., CA
- Speyeria egleis oweni (W. H. Edwards, 1892), Great Basin Fritillary, MORE INFO ...
- Speyeria egleis mattooni J. Emmel & T. Emmel, 1998, Great Basin Fritillary, MORE INFO ...
- Speyeria egleis yolaboli J. Emmel & T. Emmel, 1998, Great Basin Fritillary, MORE INFO ...
- Speyeria egleis moeckii Hammond & Dornfeld, 1983, Great Basin Fritillary, MORE INFO ...
- Speyeria egleis toyabe Howe, 1975, Great Basin Fritillary, MORE INFO ...
- Speyeria egleis reidi Austin, 1998, Great Basin Fritillary, MORE INFO ...
- Speyeria egleis linda (dos Passos & Grey, 1942), Great Basin Fritillary, MORE INFO ...
- Speyeria egleis (Behr, 1862) (Stansbury Mts. segregate), Great Basin Fritillary, Stansbury Mts., Tooele Co., Utah
- Speyeria egleis utahensis (Skinner, 1919), Great Basin Fritillary, MORE INFO ...
- Speyeria egleis secreta dos Passos & Grey, 1945, Great Basin Fritillary, MORE INFO ...
- Speyeria egleis macdunnoughi (Gunder, 1932), Great Basin Fritillary, MORE INFO ...
- Speyeria egleis albrighti (Gunder, 1932), Great Basin Fritillary, MORE INFO ...
- Speyeria adaste adaste (W. H. Edwards, 1864), Unsilvered Fritillary, MORE INFO ...

Speyeria adiaspe clemencei (J. A. Comstock, 1925), Unsilvered Fritillary, [MORE INFO ...](#)

Speyeria adiaspe atossa (W. H. Edwards, 1890), Unsilvered Fritillary, [MORE INFO ...](#)

Speyeria atlantis atlantis (W. H. Edwards, 1862), Atlantis Fritillary, [MORE INFO ...](#)

Speyeria atlantis canadensis (dos Passos, 1935), Atlantis Fritillary, [MORE INFO ...](#)

Speyeria atlantis hollandi (F. Chermock & R. Chermock, 1940), Atlantis Fritillary, [MORE INFO ...](#)

Speyeria atlantis pahasapa Spomer, Scott & Kondla, 1998, Atlantis Fritillary, [MORE INFO ...](#)

Speyeria atlantis sorocko Scott, Kondla & Spomer, 1998, Atlantis Fritillary, [MORE INFO ...](#)

Speyeria hesperis irene (Boisduval, 1869), Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis hansenii J. Emmel, T. Emmel & Mattoon, 1998, Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis cottlei (J. A. Comstock, 1925), Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis dodgei (Gunder, 1931), Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis elko Austin, 1984, Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis greyi Moeck, 1950, Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis chitone (W. H. Edwards, 1879), Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis schellbachii Garth, 1949, Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis tetonia dos Passos & Grey, 1945, Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis viola dos Passos & Grey, 1945, Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis hutchinsi dos Passos & Grey, 1947, Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis brico Kondla, Scott & Spomer, 1998, Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis beani (W. Barnes & Benjamin, 1926), Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis helena dos Passos & Grey, 1957, Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis lurana dos Passos & Grey, 1945, Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis hesperis (W. H. Edwards, 1864), Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis ratonensis Scott, 1981, Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis electa (W. H. Edwards, 1878), Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis dorothea Moeck, 1947, Northwestern Fritillary, [MORE INFO ...](#)



Speyeria hesperis capitanensis R. Holland, 1988, Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hesperis nausicaa (W. H. Edwards, 1874), Northwestern Fritillary, [MORE INFO ...](#)

Speyeria hydaspe viridicornis (J. A. Comstock, 1925), Hydaspe Fritillary, [MORE INFO ...](#)

Speyeria hydaspe hydaspe (Boisduval, 1869), Hydaspe Fritillary, [MORE INFO ...](#)

Speyeria hydaspe tehama J. Emmel, T. Emmel & Mattoon, 1998, Hydaspe Fritillary, [MORE INFO ...](#)

Speyeria hydaspe davisii J. Emmel, T. Emmel & Mattoon, 1998, Hydaspe Fritillary, [MORE INFO ...](#)

Speyeria hydaspe rhodope (W. H. Edwards, 1877), Hydaspe Fritillary, [MORE INFO ...](#)

Speyeria hydaspe (Boisduval, 1869) (NW OR / SW WA Coast Range), Hydaspe Fritillary, [MORE INFO ...](#)

Speyeria hydaspe minor dos Passos & Grey, 1947, Hydaspe Fritillary, [MORE INFO ...](#)

Speyeria mormonia bischoffii (W. H. Edwards, 1870), Mormon Fritillary, [MORE INFO ...](#)

Speyeria mormonia opis (W. H. Edwards, 1874), Mormon Fritillary, [MORE INFO ...](#)

Speyeria mormonia washingtonia (W. Barnes & McDunnough, 1913), Mormon Fritillary, [MORE INFO ...](#)

Speyeria mormonia erinna (W. H. Edwards, 1883), Mormon Fritillary, [MORE INFO ...](#)

Speyeria mormonia eurynome (W. H. Edwards, 1872), Mormon Fritillary, [MORE INFO ...](#)

Speyeria mormonia kimimela Marrone, Spomer & Scott, 2008, Mormon Fritillary, Black Hills of SD & WY

Speyeria mormonia mormonia (Boisduval, 1869), Mormon Fritillary, [MORE INFO ...](#)

Speyeria mormonia obsidiana J. Emmel, T. Emmel & Mattoon, 1998, Mormon Fritillary, [MORE INFO ...](#)

Speyeria mormonia (Boisduval, 1869) (Warner Mts. segregate), Mormon Fritillary, [MORE INFO ...](#)

Speyeria mormonia artonis (W. H. Edwards, 1881), Mormon Fritillary, [MORE INFO ...](#)

Speyeria mormonia luski (W. Barnes & McDunnough, 1913), Mormon Fritillary, [MORE INFO ...](#)

Subfamily Limenitidinae Behr, 1864, Sisters and Admirals,

Tribe Limenitidini Behr, 1864

Limenitis arthemis rubrofasciata (W. Barnes & McDunnough, 1916), White Admiral, [MORE INFO ...](#)

Limenitis arthemis arthemis (Drury, 1773), White Admiral, [MORE INFO ...](#)

Limenitis arthemis astyanax (Fabricius, 1775), Red-Spotted Purple, [MORE INFO ...](#)

Limenitis arthemis arizonensis W. H. Edwards, 1882, 'Arizona' Red-spotted Purple, [MORE INFO ...](#)

Limenitis weidemeyerii weidemeyerii W. H. Edwards, 1861, Weidemeyer's Admiral, [MORE INFO ...](#)

Limenitis weidemeyerii oberfoelli F. Brown, 1960, Weidemeyer's Admiral, [MORE INFO ...](#)

Limenitis weidemeyerii latifascia S. Perkins & E. Perkins, 1967, Weidemeyer's Admiral, [MORE INFO ...](#)

Limenitis weidemeyerii nevadae (W. Barnes & Benjamin, 1924), Weidemeyer's Admiral, [MORE INFO ...](#)

Limenitis weidemeyerii angustifascia (W. Barnes & McDunnough, 1912), Weidemeyer's Admiral, [MORE INFO ...](#)

Limenitis weidemeyerii siennafascia Austin & Mullins, 1984, Weidemeyer's Admiral, [MORE INFO ...](#)

Limenitis weidemeyerii W. H. Edwards, 1861 (Coahuila segregate), Weidemeyer's Admiral, N Coahuila, Mexico

Limenitis lorquini powelli Austin & J. Emmel, 1998, Lorquin's Admiral, [MORE INFO ...](#)

Limenitis lorquini pallidafacies Austin & J. Emmel, 1998, Lorquin's Admiral, [MORE INFO ...](#)

Limenitis lorquini lorquini Boisduval, 1852, Lorquin's Admiral, [MORE INFO ...](#)

Limenitis lorquini ilgae C. Guppy, 2001, Lorquin's Admiral, [MORE INFO ...](#)

Limenitis lorquini burrisonii Maynard, 1891, Lorquin's Admiral, [MORE INFO ...](#)

Limenitis archippus floridensis Strecker, 1878, Viceroy, vagrant in Cuba

Limenitis archippus watsoni (dos Passos, 1938), Viceroy, [MORE INFO ...](#)

Limenitis archippus archippus (Cramer, 1775), Viceroy, [MORE INFO ...](#)

Limenitis archippus idaho Austin, 1998, Viceroy, [MORE INFO ...](#)

Limenitis archippus lahontani Herlan, 1971, Viceroy, [MORE INFO ...](#)

Limenitis archippus obsoleta W. H. Edwards, 1882, Viceroy, NW Mexico

Limenitis archippus hoffmanni R. Chermock, 1947, Viceroy, E Mexico

Limenitis archippus (Cramer, 1775) (Baja California Sur segregate), Viceroy, Baja California Sur - only 1 specimen known

Adelpha bredowii Geyer, 1837, Mexican Sister, SW & S-central Mexico, local in NW Mexico; cloud forest

Adelpha eulalia (E. Doubleday, [1848]), Arizona Sister, far SE CA, S NV, UT, AZ, NM, S CO, TX (strays N), Mx to Guat.

Adelpha californica (Butler, 1865), California Sister, Baja California (N) to S WA, Cascade-Sierra Nevada, westward

Adelpha diocles creton Godman, 1901, Short-tailed Sister, E-central & S Mexico to Guatemala & El Salvador

Adelpha diocles diocles Godman & Salvin, 1878, Short-tailed Sister, E Costa Rica & W Panama (Chiriqui massif)

Adelpha paroeca paroeca (H. Bates, 1864), Paroeca Sister, [= emathia], E & W Mexico to W Panama

Adelpha nea sentia Godman & Salvin, 1884, Sentia Sister, SE Mexico (OAX, VER), Belize

Adelpha nea nea (Hewitson, 1847), Nea Sister, Costa Rica to Venezuela, to S Peru, Guianas, Amazonian Brazil

Adelpha paraena massilia (C. Felder & R. Felder, 1867), Massilia Sister, E & W Mexico to C Panama

Adelpha paraena lecromi Willmott, 2003, Le'Crom's Sister, C Panama to N Colombia

Adelpha radiata aiellae Willmott & Hall, 1999, Striated Sister, NW Costa Rica to NW Ecuador

Adelpha serpa celerio (H. Bates, 1864), Celerio Sister, E & W Mexico to W Colombia, NW Venezuela,

Adelpha seriphia godmani Fruhstorfer, 1913, Godman's Sister, Chiapas to W Ecuador

Adelpha tracta (Butler, 1872), Tracta Sister, Nicaragua to W Panama

Adelpha pithys (H. Bates, 1864), Pithy Sister, SW & S Mexico to El Salvador, [Honduras?]

Adelpha donysa (Hewitson, 1847) (SW Mexican segregate), Donysa Sister, SW Mexico (MICH to OAX)

Adelpha donysa donysa (Hewitson, 1847), Donysa Sister, SE Mexico to Guatemala

Adelpha donysa albifilum Steinhauser, 1974, Donysa Sister, El Salvador, Honduras

Adelpha fessonia fessonia (Hewitson, 1847), Band-celled Sister, S TX, E & W Mexico to W Panama

Adelpha lapitha A. Hall, 1929, Hispaniolan Sister, Hispaniola

- Adelpha gelania gelania* (Godart, [1824]), Antillean Sister, Hispaniola
- Adelpha gelania arecosa* (Hewitson, 1847), Antillean Sister, Puerto Rico
- Adelpha basiloides* (H. Bates, 1865), Spot-celled Sister, S TX, E & W Mexico to N Venezuela & W Ecuador
- Adelpha iphiclus iphiclus* (Linnaeus, 1758), Iphiclus Sister, W & S Mexico to Bolivia, Guianas, Trinidad
- Adelpha iphicleola iphicleola* (H. Bates, 1864), Iphicleola Sister, [= massilides], E & W Mexico to E Panama
- Adelpha iphicleola gortyna* Fruhstorfer, 1915, Iphicleola Sister, Costa Rica to W Panama, possibly only as intergrades with above
- Adelpha iphicleola iphimedia* Fruhstorfer, 1915, Iphicleola Sister, Cuba & Isla de Juventud
- Adelpha abyla* (Hewitson, 1850), Jamaican Sister, Jamaica
- Adelpha melona neildi* Willmott, 2003, Mellona Sister, C Panama
- Adelpha ethelda* (Hewitson, 1867) (Northern segregate), Ethelda Sister, SE Mexico
- Adelpha ethelda sophax* Godman & Salvin, 1878, Ethelda Sister, E Costa Rica to C Panama; cloud forest
- Adelpha cytherea marcia* Fruhstorfer, 1913, Cytherea Sister, S Mexico through E Costa Rica
- Adelpha cytherea daguana* Fruhstorfer, 1913, Cytherea Sister, E Costa Rica (as intergrades with marcia) to NW Venez. & W Ecuad.
- Adelpha salmoneus salmonides* A. Hall, 1938, Golden-banded Sister, SE Mexico to C Panama
- Adelpha demialba* (Butler, 1872), White-spotted Sister, Costa Rica to E Panama; cloud forest
- Adelpha barnesia leucas* Fruhstorfer, 1915, Leucas Sister, E & W Mexico to NW Venezuela & W Ecuador
- Adelpha diazi* Beutelspacher, 1975, Diaz's Sister, E Mexico
- Adelpha hesterbergi* Willmott & J. Hall, 1999, Hesterberg's Sister, Costa Rica, NW Ecuador, [Panama?, W Colombia?]
- Adelpha naxia naxia* (C. Felder & R. Fedler, 1867), Naxia Sister, W & S Mexico to Bolivia, Brazilian Amazon, Guianas
- Adelpha heraclea heraclea* (C. Felder & R. Felder, 1867), Heraclea Sister, Guatemala to SE Peru, Brazil
- Adelpha malea fundania* Fruhstorfer, 1915, Fundania Sister, E Mexico to NW Venezuela

Adelpha boeotia oberthurii (Boisduval, 1870), Oberthur's Sister, [= *jacquelinae*], SE Mexico to W Panama

Adelpha boeotia boeotia (C. Felder & R. Felder, 1867), Oberthur's Sister, E Panama to Bolivia, SW Brazil, Guianas

Adelpha delinita utina A. Hall, 1938, Utina Sister, [= *escalantei*], SE Mexico to W Panama

Adelpha erotia erotia (Hewitson, 1847) form "*lerna*", Erotia Sister, SE Mexico (Chiapas) to Bolivia, Amazonian Brazil & Guianas

Adelpha erotia erotia (Hewitson, 1847) form "*erotia*", Erotia Sister, Costa Rica to Bolivia, Amazonian Brazil & Guianas

Adelpha phylaca phylaca (H. Bates, 1866), Phylaca Sister, E & W Mexico to W Honduras

Adelpha phylaca pseudaeethalia A. Hall, 1938, Phylaca Sister, S Mexico (Chiapas), to NW Venezuela & W Ecuador

Adelpha messana messana (C. Felder & R. Fedler, 1867), Messana Sister, Guatemala to Colombia, NW Ecuador, NW Venezuela

Adelpha melanthe melanthe (H. Bates, 1864), Rayed Sister, E & S Mexico to C Panama

Adelpha attica hemileuca Willmott & Hall, 1999, Attica Sister, NW Ecuador, W Colombia, 1 Panama specimen nr. nominate form

Adelpha leuceria leuceria (H. Druce, 1874), Yellow-striped Sister, E & W Mexico to E Panama

Adelpha leucerioides Beutelspacher, 1975 (SW Mexican segregate), Tawny-striped Sister, SW Mexico

Adelpha leucerioides Beutelspacher, 1975 (Typical segregate), Tawny-striped Sister, E Mexico to Guatemala

Adelpha erymanthis esperanza Balcázar & Willmott, 2003, Erymanthis Sister, Sierra de Juárez, Oaxaca, Mexico

Adelpha erymanthis erymanthis Godman & Salvin, 1884, Erymanthis Sister, S Mexico (Chiapas) to C Panama

Adelpha stilesiana DeVries & Chacón, 1982, Talamanca Sister, Talamanca massif, Costa Rica & W Panama, also Vol. Chiriqui

Adelpha boreas boreas (Butler, 1866), Boreas Sister, E Costa Rica to Venezuela & Bolivia

Adelpha cocala lorzae (Boisduval, 1870), Lorza's Sister, SE Mexico (OAX, CHIS) to NW Venezuela & W Ecuador

Adelpha felderi (Boisduval, 1870), Felder's Sister, E Mexico to Honduras

Adelpha leucophthalma leucophthalma (Latreille, [1809]), Leucophthalma Sister, Nicaragua to Colombia

Adelpha leucophthalma smalli Willmott, 2003, *Leucophthalma* Sister, Cerro Montuoso, Azuero Peninsula, Herrera, Panama

Adelpha salus A. Hall, 1935 (Northern segregate), *Salus* Sister, SE Mexico to W Panama

Adelpha zina lacina (Butler, 1872), *Zina* Sister, Nicaragua to W Panama

Adelpha zina zina (Hewitson, 1867), *Zina* Sister, E Panama to SW Ecuador & Venezuela

Adelpha milleri Beutelspacher, 1976, *Miller's* Sister, SE Mexico & Belize

Subfamily *Apaturinae* Boisduval, 1840, Emperors,

Asterocampa celtis reinthali Friedlander, 1987, Hackberry Emperor, SE USA coastal plain (SC to FL, W to E TX)

Asterocampa celtis celtis (Boisduval & Le Conte, [1835]), Hackberry Emperor, E North America (except as above)

Asterocampa celtis antonia (W. H. Edwards, [1878]), Hackberry Emperor, [= jeffermont] SW USA (SE CA to TX, N to SE CO), N & C Mexico

Asterocampa leilia (W. H. Edwards, 1874), Empress leilia, S & C AZ, SW NM, S & W TX, E & NW Mexico, Baja California

Asterocampa clyton flora (W. H. Edwards, 1876), Tawny Emperor, SE USA coastal plain (SC to FL, W to E TX)

Asterocampa clyton clyton (Boisduval & Le Conte, [1835]), Tawny Emperor, E North America (except as above)

Asterocampa clyton texana (Skinner, 1911), Tawny Emperor, S AZ, S NM, W & C TX, NW Mexico (SON, CHIH)

Asterocampa clyton louisa D. Stallings & Turner, 1947, Tawny Emperor, S TX, NE Mexico (to SLP)

Asterocampa idyja argus (H. Bates, 1864), 'Cream-banded' Dusky Emperor, SE AZ (as vagrant), E & W Mexico to Costa Rica

Asterocampa idyja idyja (Geyer, [1828]), Dusky Emperor, Cuba & Isla de Juventud, Hispaniola, Puerto Rico

Doxocopa thoe (Godart, [1824]), Hispaniolan Emperor, Hispaniola

Doxocopa pavon theodora (Lucas, 1857), Pavon Emperor, S TX, E & W Mexico to Colombia

Doxocopa cyane mexicana Bryk, 1953, Mexican Emperor, E & S Mexico to Colombia

Doxocopa laurentia cherubina (C. Felder & R. Felder, 1867), Turquoise Emperor, S Mexico to Colombia

Doxocopa callianira (Ménétriés, 1855), Nicaraguan Emperor, S Mexico to Costa Rica

Doxocopa clothilda (C. Felder & R. Felder, 1867), Clothilda Emperor, Costa Rica to Colombia

Doxocopa zunilda felderi (Godman & Salvin, 1884), Dingy Emperor, Costa Rica to Colombia

Doxocopa excelsa (Gillott, 1927), Broad-banded Emperor, Nicaragua & Costa Rica

Doxocopa laure laure (Drury, 1773), Silver Emperor, continental; S TX, SE AZ (uncommon) to Panama

Doxocopa laure laura (Hübner, 1823), Silver Emperor, Jamaica

Doxocopa laure druryi (Hübner, [1825]), Silver Emperor, Cuba

Doxocopa linda plesaurina (Butler & H. Druce, 1872), Rare Emperor, Costa Rica & Panama

Subfamily Biblidinae Boisduval, 1833, Exotic Brushfoots,

Tribe Biblidini Boisduval, 1833

Biblis hyperia hyperia (Cramer, 1779), Red Rim, Hispaniola, Mona, Puerto Rico, Culebra, Virgin Is. to St. Lucia

Biblis hyperia aganisa Boisduval, 1836, Red Rim, SW USA & S TX (strays N), E & W Mexico at least to Costa Rica

Mestra amymone (Ménétriés, 1857), Northern Mestra, S TX (strays far N), E & W Mexico to Costa Rica

Mestra dorcas (Fabricius, 1775), Jamaican Mestra, Jamaica

Mestra hersilia hersilia (Fabricius, 1776), South American Mestra, N S America, Trinidad, Tobago, Barbados, Grenada to Dominica

Archimestra teleboas (Ménétriés, 1832), Archimestra, Hispaniola

Tribe Catonephelini Orfila, 1952 (1865)

Catonephele cortesi R. G. De la Maza, 1982, West-Mexican Banner, W Mexico

Catonephele mexicana Jenkins & R. G. De la Maza, 1985, East-Mexican Banner, E Mexico to Costa Rica

Catonephele numilia immaculata Jenkins, 1985, Blue-frosted Banner, SW Mexico

Catonephele numilia esite (R. Felder, 1869), Blue-frosted Banner, E Mexico to W Ecuador, Venezuela & Trinidad

Catonephele orites Stichel, 1899, Broken Banner, Costa Rica to NW Ecuador

Catonephele chromis godmani Stichel, 1901, Sister-spotted Banner, Honduras to Panama

Eunica tatila tatilista Kaye, 1926, Florida Purplewing, S FL, Bahamas, Greater Antilles, Mona

Eunica tatila tatila (Herrich-Schäffer, [1855]), Florida Purplewing, E & W Mexico (strays far N from E MX) to Costa Rica

Eunica tatila bellaria Fruhstorfer, 1908, Florida Purplewing, Panama to S Brazil & Argentina

Eunica monima (Stoll, 1782), Dingy Purplewing, SE AZ & S TX (strays), E & W Mexico to Venez.; Gr. Antilles, S FL

Eunica malvina almae Vargas, Llorente & Luis, 1996, Rayed Purplewing, W Mexico

Eunica malvina albida Jenkins, 1990, Rayed Purplewing, SE Mexico to Panama

Eunica mygdonia omoa A. Hall, 1919, Blind Purplewing, S Mexico to Panama

Eunica caralis caralis (Hewitson, [1857]), Caralis Purplewing, Honduras, Panama, Colombia, Venezuela

Eunica pusilla H. Bates, 1864, Pusilla Purplewing, Costa Rica to Bolivia & SE Brazil

Eunica clytia (Hewitson, 1852), Clytia Purplewing, W Panama to Peru & C Brazil

Eunica chlororhoa mira Godman & Salvin, 1877, Orange-stained Purplewing, Honduras to Colombia

Eunica norica norica (Hewitson, 1852), Midnight Purplewing, Costa Rica to Colombia, Venezuela & W Ecuador

Eunica carias carias (Hewitson, [1857]), Carias Purplewing, Costa Rica to Colombia

Eunica sydonia caresa (Hewitson, [1857]), Plain Purplewing, SE Mexico to E Panama

Eunica volumna venusia (C. Felder & R. Felder, 1867), Blue-celled Purplewing, SE Mexico (Chiapas) to Colombia

Eunica alpais excelsa Godman & Salvin, 1877, Shining Purplewing, S Mexico (Oaxaca, Chiapas) to E Panama

Eunica araucana C. Felder & R. Felder, 1862, Araucana Purplewing, W Panama, Colombia, W Venezuela, Ecuador

Eunica caelina agustina R. G. De la Maza, 1982, Mottled Purplewing, W Mexico



Eunica caelina agusta H. Bates, 1866, Mottled Purplewing, SE Mexico to W Panama

Eunica caelina olympias C. Felder & R. Felder, 1862, Mottled Purplewing, E Panama to Peru & Venezuela

Eunica alcmena alcmena (Doubleday, [1847]), Dark Purplewing, S Mexico to Colombia & W Venezuela

Eunica pomona amata H. Druce, 1874, Rounded Purplewing, S Mexico (S Chiapas) to E Panama

Eunica heraclitus Gundlach, 1881, Cuban Purplewing, Cuba; apparently extinct

Myscelia cyananthe cyananthe C. Felder & R. Felder, 1867, Blackened Bluewing, E & S Mexico

Myscelia cyananthe diaziana R. G. De la Maza & J. De la Maza, 1985, Blackened Bluewing, Chiapas

Myscelia cyananthe skinneri Mengel, 1894, Blackened Bluewing, NW Mexico, stray to S AZ, S CA, S NM

Myscelia cyananthe streckeri Skinner, 1889, Blackened Bluewing, Baja California

Myscelia cyaniris cyaniris Doubleday, [1848], Whitened Bluewing, E Mexico to Panama

Myscelia cyaniris alvaradia R. G. De la Maza & Díaz, 1982, Whitened Bluewing, W Mexico

Myscelia leucocyana smalli Jenkins, 1984, Pale Bluewing, Nicaragua & Costa Rica

Myscelia leucocyana leucocyana C. Felder & R. Felder, 1861, Pale Bluewing, Panama to Venezuela

Myscelia ethusa ethusa (Doyère, [1840]), Mexican Bluewing, S TX, E & W Mexico

Myscelia ethusa cyanecula C. Felder & R. Felder, 1867, Mexican Bluewing, MORE INFO ...

Myscelia ethusa chiapensis Jenkins, 1984, Mexican Bluewing, Chiapas

Myscelia ethusa pattenia Butler & H. Druce, 1872, Mexican Bluewing, Guatemala to Costa Rica

Myscelia aracynthia (Dalman, 1823), Hispaniolan Bluewing, Hispaniola

Nessaea aglaura aglaura (Doubleday, [1848]), Northern Nessaea, S Mexico to W Ecuador

Tribe Ageroniini E. Doubleday, 1847

Ectima erycinoides C. Felder & R. Felder, 1867 (Northern segregate), Northern Ectima, SE Mexico to Panama

Hamadryas februa (Hübner, [1823]) (NW Mexican segregate), Gray Cracker, NW Mexico

Hamadryas februa ferentina (Godart, [1824]), Gray Cracker, S TX, E & S Mexico to Colombia, Trinidad, Guianas & Amazon

Hamadryas amphichloe diasia (Fruhstorfer, 1916), Caribbean Cracker, S FL (rare stray), Cuba, Hispaniola, Jamaica, Mona, Puerto Rico

Hamadryas amphichloe ferox (Staudinger, 1886), Caribbean Cracker, Panama, Colombia, Venezuela, (Guatemala?)

Hamadryas glauconome grisea Jenkins, 1983, Glaucous Cracker, NW Mexico

Hamadryas glauconome glauconome (H. Bates, 1864), Glaucous Cracker, S TX (rare stray), E & S Mexico to Costa Rica (Panama?)

Hamadryas julitta (Fruhstorfer, 1914), Yucatan Cracker, [= *honorina*], Yucatan Peninsula

Hamadryas atlantis lelaps (Godman & Salvin, 1883), Black-patched Cracker, W Mexico

Hamadryas atlantis atlantis (H. Bates, 1864), Black-patched Cracker, S Mexico (Chiapas), Guatemala, Honduras

Hamadryas feronia farinulenta (Fruhstorfer, 1916), Variable Cracker, S TX (rare stray), E & W Mexico to W Peru, Venezuela, Trinidad

Hamadryas guatemalena marmarice (Fruhstorfer, 1916), Guatemalan Cracker, S TX, most of Mexico

Hamadryas guatemalena guatemalena (H. Bates, 1864), Guatemalan Cracker, SE Mexico (much of Chiapas, Yucatan Peninsula) to Costa Rica

Hamadryas iphthime joannae Jenkins, 1983, Brownish Cracker, S TX (rare stray), E & S Mexico to Costa Rica

Hamadryas iphthime iphthime (H. Bates, 1864), Brownish Cracker, Costa Rica, Panama to Guyana, Colombia, Peru, Bolivia, S Brazil

Hamadryas fornax fornacalia (Fruhstorfer, 1907), Orange Cracker, E Mexico to Colombia & Venezuela

Hamadryas amphinome mazai Jenkins, 1983, Red Cracker, W Mexico

Hamadryas amphinome mexicana (Lucas, 1853), Red Cracker, E Mexico to Colombia, Cuba

Hamadryas arinome arienis (Godman & Salvin, 1883), Turquoise Cracker, Costa Rica to Bolivia

Hamadryas laodamia saurites (Fruhstorfer, 1916), Starry Cracker, SE Mexico to Colombia, N Venezuela, Trinidad

Panacea procilla lysimache Godman & Salvin, 1883, Widespread *Panacea*, Costa Rica & Panama



Tribe Epiphelini Jenkins, 1987

Asterope degandii degandii (Hewitson, 1858), Red-based Banner, W Panama to Ecuador

Bolboneura sylphis beatrix R. G. De la Maza, 1985, Variable Banner, SW Mexico (MICH, GRO, MOR, SW PUE, C & S OAX)

Bolboneura sylphis veracruzana Draudt, 1931, Variable Banner, E Mexico

Bolboneura sylphis sylphis (H. Bates, 1864), Variable Banner, C & W Chiapas, Guatemala, Honduras

Bolboneura sylphis lacandona R. G. De la Maza & J. De la Maza, 1985, Variable Banner, E Chiapas

Epiphile adrasta escalantei Descimon & Mast, 1979, Common Banner, W Mexico (SIN to S OAX)

Epiphile adrasta adrasta Hewitson, 1861, Common Banner, S TX (as vagrant), E Mexico to W Panama

Epiphile adrasta bandusia Fruhstorfer, 1912, Common Banner, C Panama to W Ecuador

Epiphile iblis plutonia H. Bates, 1864, Plutonia Banner, SE Mexico & Guatemala

Epiphile iblis plusios Godman & Salvin, 1883, Plutonia Banner, Costa Rica & Panama

Epiphile eriopis devriesi Jenkins, 1986, White-striped Banner, Nicaragua to Colombia

Epiphile hermosa J. De la Maza & Díaz, 1978, Beautiful Banner, SE Mexico, Guatemala

Epiphile grandis Butler, 1872, Grand Banner, Costa Rica & Panama

Epiphile chrysites chrysites (Latreille, [1809]), Chrysites Banner, [W Panama?], Venezuela to Bolivia

Lucinia sida sida Hübner, [1823], Caribbean Banner, Cuba

Lucinia sida albomaculata Rindge, 1955, Caribbean Banner, Bahamas

Lucinia sida torrebria (Ménétriés, 1832), Caribbean Banner, Hispaniola

Lucinia cadma (Drury, 1773), Jamaican Banner, Jamaica

Nica flavilla bachiana (R. G. De la Maza & J. De la Maza, 1985), Little Banner, W Mexico

Nica flavilla (Godart, [1824]) (E Mexican segregate), Little Banner, E Mexico

Nica flavilla canthara (Doubleday, 1849), Little Banner, Nicaragua to Venezuela (at least)

Pyrrhogyra neaerea hypsenor Godman & Salvin, 1884, Banded Banner, E & W Mexico to Panama

Pyrrhogyra otolais otolais H. Bates, 1864, Double-banded Banner, E & W Mexico to Panama

Pyrrhogyra crameri Aurivillius, 1882 (Northern segregate), Rounded Banner, Nicaragua to Panama

Pyrrhogyra edocla paradisea R. G. De la Maza & J. De la Maza, 1985, Green-spotted Banner, W Mexico

Pyrrhogyra edocla edocla Doubleday, [1848], Green-spotted Banner, E Mexico to Colombia & Venezuela

Temenis laothoe quilapayunia R. G. De la Maza & Turrent, 1985, Orange Banner, W Mexico

Temenis laothoe (Cramer, 1777) (E Mexican segregate), Orange Banner, S TX (as vagrant), E Mexico

Temenis laothoe hondurensis Fruhstorfer, 1907, Orange Banner, S Mexico (Chiapas) to Colombia

Temenis pulchra (Hewitson, 1861) (Northern segregate), Red Banner, Costa Rica & Panama

Tribe Eubagini Burmeister, 1878

Dynamine agacles core Röber, 1915, Pale Sailor, Costa Rica to Colombia

Dynamine theseus (C. Felder & R. Felder, 1861), White Sailor, S Mexico to Colombia & Venezuela

Dynamine athemon maeon (Doubleday, 1849), Ghost Sailor, Panama & Colombia

Dynamine ate (Godman & Salvin, 1883), Little Sailor, SE Mexico (SE Chiapas), Guatemala, Honduras, Costa Rica

Dynamine colombiana Talbot, 1932, Colombian Sailor, Nicaragua to Colombia & NW Venezuela

Dynamine tithia salpensa (C. Felder & R. Felder, 1862), Blue Sailor, Andes and upper Amazon basin, Colombia to Bolivia (hypothetical for Central America)

Dynamine hecuba (Schaus, 1913), Costa Rican Sailor, Costa Rica

Dynamine vicaria gillotti A. Hall, 1930, Giant Sailor, Costa Rica

Dynamine chryseis (H. Bates, 1865), Thick-rimmed Sailor, Nicaragua to Amazon Basin

Dynamine sosthenes sosthenes (Hewitson, 1869), Thin-rimmed Sailor, Nicaragua & Costa Rica

Dynamine paulina thalassina (Boisduval, 1870), Dark Sailor, Guatemala to Colombia

Dynamine postverta mexicana d'Almeida, 1952, Mexican Sailor , [= *mylitta*], S TX (rare stray), E & W Mexico, C America, Cuba

Dynamine artemisia (Fabricius, 1793) (Northern segregate), Small-eyed Sailor, E & S Mexico to Panama

Dynamine dyonis Geyer, 1837, Blue-eyed Sailor , S TX, E & W Mexico to Panama

Dynamine serina serina (Fabricius, 1775), Caribbean Sailor, [= *egaea*], Jamaica

Dynamine serina calais M. Bates, 1936, Caribbean Sailor, Cuba

Dynamine serina zetes (Ménétriés, 1832), Caribbean Sailor, Hispaniola

Tribe Callicorini Orfila, 1952

Haematera pyrame (Hübner, [1819]) (Northern segregate), Blind Eighty-eight, Nicaragua to Colombia

Mesotaenia barnesi (Schaus, 1913), Costa Rican Eighty-eight, Costa Rica (Carrillo Belt, Atlantic slope, to Talamancas)

Callicore lyca lyca (Doubleday, [1847]), Six-spotted Eighty-eight, S Mexico to Honduras

Callicore lyca aerias (Godman & Salvin, 1883), Six-spotted Eighty-eight, Nicaragua to Panama

Callicore brome angusta Attal, 2000, Four-spotted Eighty-eight, Costa Rica

Callicore brome danieli Attal, 2003, Four-spotted Eighty-eight, Panama (Darien)

Callicore atacama folschveilleri Attal, 2008, Yellow-banded Eighty-eight, Costa Rica & W Panama

Callicore atacama faustina (H. Bates, 1866), Yellow-banded Eighty-eight, Costa Rica (Atlantic slope Talamancas) & Panama

Callicore astarte casta (Salvin, 1869), Blue-stitched Eighty-eight, Veracruz & Oaxaca, Mexico

Callicore astarte patelina (Hewitson, 1853), Blue-stitched Eighty-eight, Chiapas to Costa Rica

Callicore astarte staudingeri (Dillon, 1948), Blue-stitched Eighty-eight, Panama (Darien), Colombia (Antioquia), Venezuela (Aragua, Trujillo, Perija)

Callicore pitheas (Latreille, [1813]), Two-eyed Eighty-eight, W Chiapas to Venezuela & W Ecuador

Callicore texa loxicha R. G. De la Maza & J. De la Maza, 1983, Yellow-rimmed Eighty-eight , S Oaxaca (Sierra Madre del Sur)

Callicore texa heroica (Fruhstorfer, 1916), Yellow-rimmed Eighty-eight , Veracruz, N Oaxaca

Callicore texa tacana R. G. De la Maza & J. De la Maza, 1983, Yellow-rimmed Eighty-eight , W Chiapas to Guatemala

Callicore texa titania (Salvin, 1869), Yellow-rimmed Eighty-eight , far SE Mexico (E Chiapas) to Colombia

Callicore tolima tehuana R. G. De la Maza & J. De la Maza, 1983, Blue-and-orange Eighty-eight, Veracruz, Tabasco, Oaxaca, N Chiapas (vic. Palenque)

Callicore tolima pacifica (H. Bates, 1866), Blue-and-orange Eighty-eight, C & S Chiapas to W Guatemala

Callicore tolima guatemalena (H. Bates, 1866), Blue-and-orange Eighty-eight, Guatemala

Callicore tolima peralta (Dillon, 1948), Blue-and-orange Eighty-eight, Honduras to E Costa Rica & Panama

Callicore tolima bugaba (Staudinger, 1876), Blue-and-orange Eighty-eight, W Costa Rica & Panama

Diaethria anna anna (Guérin-Méneville, [1844]), Anna's Eighty-eight, E Mexico to Costa Rica

Diaethria anna salvadorensis (Franz & Schröder, 1954), Anna's Eighty-eight, SW Chiapas to El Salvador

Diaethria anna mixteca J. De la Maza, 1977, Anna's Eighty-eight, SW Mexico

Diaethria gabaza eupepla (Salvin & Godman, 1868), Smudged Eighty-eight, Guatemala to Colombia

Diaethria clymena marchalii (Guérin-Méneville, [1844]), Widespread Eighty-eight, Nicaragua to Brazil

Diaethria asteria (Godman & Salvin, 1894), West-Mexican Eighty-eight, W Mexico

Diaethria astala asteroide R. G. De la Maza & R. F. De la Maza, 1985, Astala Eighty-eight, SW Mexico

Diaethria astala astala (Guérin-Méneville, [1844]), Astala Eighty-eight, E Mexico to Colombia

Diaethria bacchis (Doubleday, 1849), White-patched Eighty-eight, E & W Mexico & Guatemala

Diaethria pandama (Doubleday, [1848]), Orange-striped Eighty-eight, E & W Mexico to Panama

Subfamily Cyrestinae Guenée, 1865, Daggerwings,

Tribe Cyrestini Guenée, 1865

Marpesia chiron (Fabricius, 1775), Many-banded Daggerwing, S TX (strays N), E & W Mexico to Argentina, Greater Antilles

Marpesia livius alcibiades (Staudinger, 1876), Brown-banded Daggerwing, Costa Rica & Panama

Marpesia merops (Doyère, [1840]), Spot-banded Daggerwing, Guatemala to Brazil

Marpesia corita corita (Westwood, 1850), Orange-banded Daggerwing, E & S Mexico, Guatemala, Honduras

Marpesia corita phiale (Godman & Salvin, 1878), Orange-banded Daggerwing, SW Mexico (S Chiapas) & W Guatemala

Marpesia marcella valetta (Butler & H. Druce, 1872), Purple-stained Daggerwing, Guatemala to Costa Rica

Marpesia marcella (Butler & H. Druce, 1872) (Panamanian segregate), Purple-stained Daggerwing, Panama

Marpesia furcula (Fabricius, 1793) (Northern segregate), Glossy Daggerwing, [= "iole" records for Central America], Nicaragua to Panama

Marpesia harmonia (Klug, 1836), Pale Daggerwing, SE Mexico & Guatemala

Marpesia berania fruhstorferi (Seitz, 1914), Orange Daggerwing, Honduras to Panama

Marpesia petreus (Cramer, 1776) (Northern segregate), Ruddy Daggerwing, S FL, S TX, E & W Mexico (strays far N) to W Ecuador

Marpesia petreus petreus (Cramer, 1776), Ruddy Daggerwing, Guianas, Amazonian Colombia to Bolivia

Marpesia petreus damicorum Brévignon, 2001, Ruddy Daggerwing, Mona, Puerto Rico, Lesser Antilles (St. Kitts, Guadeloupe, etc.)

Marpesia eleuchea eleuchea Hübner, 1818, Caribbean Daggerwing, Cuba & Isla de Juventud, rare stray to S FL Keys

Marpesia eleuchea bahamensis Munroe, 1971, Caribbean Daggerwing, Bahamas

Marpesia eleuchea dospassosi Munroe, 1971, Caribbean Daggerwing, Hispaniola

Marpesia eleuchea pellenis (Godart, [1824]), Caribbean Daggerwing, Jamaica

Marpesia zerynthia dentigera (Fruhstorfer, 1907), Waiter Daggerwing, [= *coresia*], E & S Mexico to Ecuador, one-time stray to S TX

Subfamily Nymphalinae Rafinesque, 1815, True Brushfoots,

Tribe Coeini Scudder, 1893

Historis odius dious Lamas, 1995, Orion Cecropian, continental; S TX (as stray), E & W Mexico to Argentina

Historis odius odius (Fabricius, 1775), Orion Cecropian, Greater Antilles

Historis odius caloucaera Brévignon, 2003, Orion Cecropian, Windward and Leeward Islands

Historis acheronta acheronta (Fabricius, 1775), Tailed Cecropian, continental; S TX & AZ (as stray), E & W Mexico to Brazil

Historis acheronta semele (M. Bates, 1939), Tailed Cecropian, Cuba and Hispaniola

Historis acheronta cadmus (Cramer, 1775), Tailed Cecropian, Jamaica

Baeotus beotus (Doubleday, [1849]), Graphic Beauty, SE Mexico to Amazon Basin

Pycina zamba zelys Godman & Salvin, 1884, Cloud-forest Beauty, S Mexico to Panama

Tribe Nymphalini Rafinesque, 1815

Colobura dirce dirce (Linnaeus, 1758), Dirce Beauty, E & W Mexico to Argentina

Colobura dirce wolcottii W. Comstock, 1942, Dirce Beauty, Greater Antilles (Jamaica, Cuba, Hispaniola, Puerto Rico)

Colobura annulata Willmott, Constantino & J. Hall, 2001, New Beauty, S Mexico to W Ecuador, Venezuela to Bolivia & Guianas, Trinidad

Tigridia acesta (Linnaeus, 1758) (Northern segregate), Tiger Beauty, SE Mexico to Panama

Smyrna blomfildia datis Fruhstorfer, 1908, Blomfild's Beauty, S TX, E & W Mexico to Panama

Smyrna karwinskii Geyer, [1833], Karwinski's Beauty, E & W Mexico to Nicaragua

Hypanartia godmanii (H. Bates, 1864), Godman's Mapwing, E & W Mexico to Colombia

Hypanartia paullus (Fabricius, 1793), Antillean Mapwing, Greater Antilles (Jamaica, Cuba, Hispaniola, Puerto Rico)

Hypanartia lethe (Fabricius, 1793), Orange Mapwing, S TX (rare stray), E & S Mexico to Brazil

Hypanartia dione disjuncta Willmott, J. Hall & Lamas, 2001, Banded Mapwing, E & W Mexico, Guatemala, Honduras

Hypanartia dione arcae (Salvin, 1871), Banded Mapwing, Costa Rica & Panama

*Hypanartia trimaculata autumn*a Willmott, J. Hall & Lamas, 2001, Reddish Mapwing, [Mexican "kefersteini" records], E & S Mexico to Panama

Vanessa virginiensis (Drury, 1773), American Lady, N Bahamas, Gr. Antilles, Hawaii, Canary Is.; N. Am. to Colombia

Vanessa cardui (Linnaeus, 1758), Painted Lady, nearly cosmopolitan as vagrant; uncommon or vagrant in W. Indies

Vanessa annabella (W. D. Field, 1971), West Coast Lady , MORE INFO ...

Vanessa atalanta rubria (Fruhstorfer, 1909), Red Admiral, Gr. Antilles (not PR), N Bahamas (strays), N Am. to Guat., Venez.

Vanessa tameamea Escholtz, 1821, Kameamea, Endemic to Hawaii

Aglais milberti viola dos Passos, 1938, Milbert's Tortoiseshell, MORE INFO ...

Aglais milberti milberti (Godart, 1819), Milbert's Tortoiseshell, MORE INFO ...

Aglais milberti subpallida (Cockerell, 1889), Milbert's Tortoiseshell, MORE INFO ...

Aglais milberti pullum (Austin, 1998), Milbert's Tortoiseshell, MORE INFO ...

Nymphalis l-album j-album (Boisduval & Le Conte, [1835]), Compton Tortoiseshell, MORE INFO ...

Nymphalis l-album watsoni (G. Hall, 1924), Compton Tortoiseshell, MORE INFO ...

Nymphalis californica (Boisduval, 1852), California Tortoiseshell, MORE INFO ...

Nymphalis antiopa antiopa (Linnaeus, 1758), Mourning Cloak, MORE INFO ...

Nymphalis cyanomelas (Doubleday, [1848]), Mexican Tortoiseshell, S Mexico to El Salvador

Polygonia interrogationis (Fabricius, 1798), Question Mark, MORE INFO ...

Polygonia comma (T. Harris, 1842), Comma Anglewing, MORE INFO ...

Polygonia satyrus satyrus (W. H. Edwards, 1869), Satyr Anglewing, MORE INFO ...

Polygonia satyrus neomarsyas dos Passos, 1969, Satyr Anglewing, [= transcanada]

Polygonia g-argenteum (Doubleday, 1848), Mexican Anglewing, Mexico

Polygonia progne (Cramer, 1775), Gray Anglewing, MORE INFO ...

- Polygonia oreas oreas (W. H. Edwards, 1869), Oreas Anglewing, MORE INFO ...
- Polygonia oreas silenus (W. H. Edwards, 1870), Oreas Anglewing, MORE INFO ...
- Polygonia oreas threatfuli C. Guppy & J. Shepard, 2001, Oreas Anglewing, MORE INFO ...
- Polygonia oreas satellow Scott, 2006, Oreas Anglewing, MORE INFO ...
- Polygonia oreas nigrozephyrus Scott, 1984, Oreas Anglewing, MORE INFO ...
- Polygonia gracilis gracilis (Grote & Robinson, 1867), Hoary Anglewing, MORE INFO ...
- Polygonia gracilis zephyrus (W. H. Edwards, 1870), Zephyr Anglewing, MORE INFO ...
- Polygonia haroldii (Dewitz, 1877), Spotless Anglewing, Mexico
- Polygonia faunus smythi A. Clark, 1937, Green Anglewing, MORE INFO ...
- Polygonia faunus faunus (W. H. Edwards, 1862), Green Anglewing, MORE INFO ...
- Polygonia faunus arcticus Leussler, 1935 , Green Anglewing, [= cenveray]
- Polygonia faunus rusticus (W. H. Edwards, 1874), Green Anglewing, MORE INFO ...
- Polygonia faunus fulvescens J. Emmel, T. Emmel & Mattoon, 1998, Green Anglewing, MORE INFO ...
- Polygonia faunus hylas (W. H. Edwards, 1872), Green Anglewing, MORE INFO ...

Tribe Victorinini Scudder, 1893

- Anartia jatrophae jatrophae (Linnaeus, 1763), White Peacock, South America, Lesser Antilles N to Barbuda & St. Kitts
- Anartia jatrophae luteipicta (Fruhstorfer, 1907), White Peacock, S TX (strays far N), E & W Mexico through Central America
- Anartia jatrophae Guantanamo Munroe, 1942, White Peacock, S FL (strays N), Bahamas, Cuba, Turks & Caicos
- Anartia jatrophae saturata Staudinger, [1885], White Peacock, Hispaniola, Great Inagua
- Anartia jatrophae jamaicensis Möschler, 1886, White Peacock, Jamaica, Grand Cayman, [Cayman Brac?]
- Anartia jatrophae semifusca Munroe, 1942, White Peacock, Puerto Rico, Mona, E to Virgin Islands
- Anartia jatrophae intermedia Munroe, 1942, White Peacock, St. Croix

Anartia amathea amathea (Linnaeus, 1758), Red Peacock, Panama to Argentina; Grenada, Barbados, Antigua

Anartia fatima fatima (Fabricius, 1793), Banded Peacock, S TX, E & S Mexico to far NW Colombia

Anartia fatima colima Lamas, 1995, Banded Peacock, NW Mexico

Anartia chrysopelea Hübner, [1831], Cuban Peacock, Cuba & Isla de Juventud, rare stray to S FL

Anartia lytrea (Godart, 1819), Hispaniolan Peacock, Hispaniola (Dominican Republic); rare stray to Cuba

Metamorpha elissa elissa Hübner, [1819], Metamorpha, Panama to Guianas and Peru

Siproeta stelenes biplagiata (Fruhstorfer, 1907), Malachite , S TX (strays N), E & W Mexico to Amazon, S FL, Cuba, Caymans

Siproeta stelenes stelenes (Linnaeus, 1758), Malachite , Jamaica, Hispaniola, Puerto Rico, St. Kitts, St. Croix

Siproeta epaphus epaphus (Latreille, 1813), Rusty-tipped Page, S TX, S NM (rare strays), E & W Mexico to Peru

Siproeta superba superba (H. Bates, 1864), Broad-banded Page, S Mexico, Guatemala, Honduras

Siproeta superba euoe R. Fox & A. Forbes, 1971, Broad-banded Page, Costa Rica

Tribe Junoniini Reuter, 1896

Junonia coenia coenia Hübner, [1822], Northern Buckeye, E USA (strays N), Bermuda, Cuba & Isla de Juventud

Junonia coenia grisea Austin & J. Emmel, 1998, Northern Buckeye, Baja California, California, SW Oregon (strays N & NE)

Junonia evarete nigrosuffusa W. Barnes & McDunnough, 1916, Dark Buckeye, SW USA & C TX to S Mexico (strays N)

Junonia evarete (Cramer, 1779) (NW Mexican segregate), Tropical Buckeye, Sinaloa to Jalisco, low elevations

Junonia evarete (Cramer, 1779) (E Mexican segregate), Tropical Buckeye, S TX to Central America, mainly low elevations

Junonia evarete zonalis C. Felder & R. Felder, [1867], Tropical Buckeye, S FL, Bahamas, Cuba, Cayman Is., Jamaica, Hispaniola; C. Am.?

Junonia evarete michaelisi Fruhstorfer, 1907, Tropical Buckeye, Puerto Rico

Junonia evarete swifti Brévignon, 2004, Tropical Buckeye, Guadeloupe and nearby islands; possibly other I. in Less. Antilles

Junonia evarete evarete (Cramer, 1779), Tropical Buckeye, NE South America (at least)

Junonia genoveva genoveva (Cramer, 1780), Mangrove Buckeye, NE South America, possibly Central America

Junonia genoveva (Cramer, 1780) (Mexican segregate), Mangrove Buckeye, Gulf Coast mangroves, S TX to Belize (at least), ? along Pacific

Junonia genoveva (Cramer, 1780) (Caribbean segregate), Mangrove Buckeye, S FL, Bahamas, Greater Antilles, Cayman Islands

Junonia genoveva neildi Brévignon, 2004, Mangrove Buckeye, Guadeloupe; possibly elsewhere in Lesser Antilles

Hypolimnys misippus (Linnaeus, 1764), Mimic, NE S. Am, Gr. & Lesser Antilles, N continental and Yucatan coasts (as strays?)

Tribe Melitaeini Newman, [1870]

Euphydryas gillettii (W. Barnes, 1897), Gillett's Checkerspot, MORE INFO ...

Euphydryas editha taylori (W. H. Edwards, 1888), Edith's Checkerspot, MORE INFO ...

Euphydryas editha editha (Boisduval, 1852), Edith's Checkerspot, MORE INFO ...

Euphydryas editha insularis T. Emmel & J. Emmel, 1974, Edith's Checkerspot, MORE INFO ...

Euphydryas editha augustina (W. G. Wright, 1905), Edith's Checkerspot, MORE INFO ...

Euphydryas editha quino (Behr, 1863), Edith's Checkerspot, Quino Checkerspot, MORE INFO ...

Euphydryas editha ehrlichii Baughman & Murphy, 1998, Edith's Checkerspot, MORE INFO ...

Euphydryas editha nubigena (Behr, 1863), Edith's Checkerspot, MORE INFO ...

Euphydryas editha tahoensis Austin & Murphy, 1998, Edith's Checkerspot, MORE INFO ...

Euphydryas editha aurilacus Gunder, 1928, Edith's Checkerspot, MORE INFO ...

Euphydryas editha lawrencei Gunder, 1931, Edith's Checkerspot, MORE INFO ...

Euphydryas editha colonia (W. G. Wright, 1905), Edith's Checkerspot, MORE INFO ...

Euphydryas editha rubicunda (Hy. Edwards, 1881), Edith's Checkerspot, MORE INFO ...

Euphydryas editha baroni (W. H. Edwards, 1879), Edith's Checkerspot, [MORE INFO ...](#)

Euphydryas editha karinae Baughman & Murphy, 1998, Edith's Checkerspot, [MORE INFO ...](#)

Euphydryas editha luestherae Murphy & P. Ehrlich, 1981, Edith's Checkerspot, [MORE INFO ...](#)

Euphydryas editha monoensis Gunder, 1928, Edith's Checkerspot, [MORE INFO ...](#)

Euphydryas editha edithana (Strand, 1915), Edith's Checkerspot, [MORE INFO ...](#)

Euphydryas editha (Boisduval, 1852) (C Oregon), Edith's Checkerspot, Pine Mtn. area, Deschutes Co., OR

Euphydryas editha (Boisduval, 1852) (Ochoco Mts. Segregate), Edith's Checkerspot, vic. Big Summit Prairie, Ochoco Mts., OR

Euphydryas editha (Boisduval, 1852) (NE Oregon segregate), Edith's Checkerspot, Blue Mountains, NE Oregon

Euphydryas editha bingi Baughman & Murphy, 1998, Edith's Checkerspot, S end Warner Mts., CA, high elevation

Euphydryas editha mattooni Austin & Murphy, 1998, Edith's Checkerspot, [MORE INFO ...](#)

Euphydryas editha owyheensis Austin & Murphy, 1998, Edith's Checkerspot, [MORE INFO ...](#)

Euphydryas editha lehmani Gunder, 1929, Edith's Checkerspot, [MORE INFO ...](#)

Euphydryas editha gunnisonensis F. Brown, [1971], Edith's Checkerspot, [MORE INFO ...](#)

Euphydryas editha alebarki Ferris, [1971], Edith's Checkerspot, [MORE INFO ...](#)

Euphydryas editha montanus McDunnough, 1928, Edith's Checkerspot, [MORE INFO ...](#)

Euphydryas editha hutchinsi McDunnough, 1928, Edith's Checkerspot, [MORE INFO ...](#)

Euphydryas editha beani (Skinner, 1897), Edith's Checkerspot, [MORE INFO ...](#)

Euphydryas chalcedona klotsi dos Passos, 1938, Chalcedon Checkerspot, [MORE INFO ...](#)

Euphydryas chalcedona kingstonensis T. Emmel & J. Emmel, 1973, Chalcedon Checkerspot, [MORE INFO ...](#)

Euphydryas chalcedona corralensis T. Emmel & J. Emmel, 1973, Chalcedon Checkerspot, [MORE INFO ...](#)

Euphydryas chalcedona hennei Scott, 1981, Chalcedon Checkerspot, [MORE INFO ...](#)

Euphydryas chalcedona sierra (W. G. Wright, 1905), Chalcedon Checkerspot, [MORE INFO ...](#)

Euphydryas chalcedona dwinellei (Hy. Edwards, 1881), Chalcedon Checkerspot, [MORE INFO ...](#)

Euphydryas chalcedona olancha (W. G. Wright, 1905), Chalcedon Checkerspot, [MORE INFO ...](#)

Euphydryas chalcedona macglashanii (Rivers, 1888), Chalcedon Checkerspot, [MORE INFO ...](#)

Euphydryas chalcedona trinitina Baughman & Murphy, 1998, Chalcedon Checkerspot, [MORE INFO ...](#)

Euphydryas chalcedona chalcedona (E. Doubleday, [1847]), Chalcedon Checkerspot, [= *sinecat*]

Euphydryas colon sperryi F. Chermock & R. Chermock, 1945, Snowberry Checkerspot, [MORE INFO ...](#)

Euphydryas colon colon (W. H. Edwards, 1881), Snowberry Checkerspot, [MORE INFO ...](#)

Euphydryas colon svihlae Pelham, 2008, Snowberry Checkerspot, [MORE INFO ...](#)

Euphydryas colon (W. H. Edwards, 1881) (E-central OR Cascades), Snowberry Checkerspot, [MORE INFO ...](#)

Euphydryas colon (W. H. Edwards, 1881) (SE Cascades, Warner Mts.), Snowberry Checkerspot, [nr. *wallacensis*]

Euphydryas colon wallacensis Gunder, 1928, Snowberry Checkerspot, [MORE INFO ...](#)

Euphydryas colon nevadensis Bauer, 1975, Snowberry Checkerspot, [MORE INFO ...](#)

Euphydryas colon (W. H. Edwards, 1881) (central WA Cascades), Snowberry Checkerspot, [often called *paradoxa* in literature] C WA Cascades from C Yakima to far S Chelan Co.

Euphydryas colon paradoxa McDunnough, 1927, Snowberry Checkerspot, [MORE INFO ...](#)

Euphydryas anicia helvia (Scudder, 1869), Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia anicia (E. Doubleday, [1847]), Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia howlandi D. Stallings & Turner, 1947, Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia hopfingeri Gunder, 1934, Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia (E. Doubleday, [1847]) (N WA Cascades), Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia (E. Doubleday, [1847]) (NE OR, high elevations), Anicia Checkerspot, [nr. *howlandi*]

Euphydryas anicia bakeri D. Stallings & Turner, 1945, Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia effi D. Stallings & Turner, 1945, Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia windi Gunder, 1932, Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia maria (Skinner, 1899), Anicia Checkerspot, [MORE INFO ...](#)



Euphydryas anicia brucei (W. H. Edwards, 1888), Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia eurytion (Mead, 1875), Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia wecoeut M. Fisher, Spomer & Scott, 2006, Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia alena W. Barnes & Benjamin, 1926, Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia magdalena W. Barnes & McDunnough, 1918, Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia hermosa (W. G. Wright, 1905), Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia chuskae (Ferris & R. Holland, 1980), Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia carmentis W. Barnes & Benjamin, 1926, Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia cloudcrofti (Ferris & R. Holland, 1980), Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia capella (W. Barnes, 1897), Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia bernadetta Leussler, 1920, Anicia Checkerspot, [= *rorina*]

Euphydryas anicia veazieae Fender & Jewett, 1953, Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia macyi Fender & Jewett, 1953, Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia wheeleri (Hy. Edwards, 1881), Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia morandi Gunder, 1928, Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas anicia variicolor Baughman & Murphy, 1998, Anicia Checkerspot, [MORE INFO ...](#)

Euphydryas phaeton phaeton (Drury, 1773), Baltimore Checkerspot, [MORE INFO ...](#)

Euphydryas phaeton ozarkae Masters, 1968, Baltimore Checkerspot, [MORE INFO ...](#)

Atlantea pantoni (Kaye, 1906), Jamaican Checkerspot, Jamaica

Atlantea perezi (Herrich-Schäffer, 1862), Cuban Checkerspot, NE Cuba

Atlantea cryptadia Sommer & Schwartz, 1980, Hispaniolan Checkerspot, Hispaniola

Atlantea tulita (Dewitz, 1877), Puerto Rican Checkerspot, Puerto Rico

Poladryas minuta minuta (W. H. Edwards, 1861), Dotted Checkerspot, [= *simador*]; far SE CO, E NM, N & W TX, NE Mexico

Poladryas minuta (W. H. Edwards, 1861) (NW Mexican segregate), Dotted Checkerspot, NW Mexico (SON, CHIH, DGO)

Poladryas arachne arachne (W. H. Edwards, 1869), Arachne Checkerspot, MORE INFO ...

Poladryas arachne gilensis (W. Holland, 1930), Arachne Checkerspot, MORE INFO ...

Poladryas arachne expedita Austin, 1998, Arachne Checkerspot, MORE INFO ...

Poladryas arachne nympha (W. H. Edwards, 1884), Arachne Checkerspot, MORE INFO ...

Poladryas arachne monache (J. A. Comstock, 1918), Arachne Checkerspot, MORE INFO ...

Chlosyne gaudialis gaudialis (H. Bates, 1864), Gaudy Checkerspot, SE Mexico to Panama

Chlosyne gaudialis wellingi L. Miller & Rotger, 1979, 'Welling's' Gaudy Checkerspot, S Oaxaca (Sierra Madre del Sur)

Chlosyne narva narva (Fabricius, 1793), Narva Checkerspot, Nicaragua to Colombia and Venezuela

Chlosyne narva bonpland (Latreille, [1809]), Narva Checkerspot, Costa Rica to W Ecuador

Chlosyne janais gloriosa Bauer, 1960, Glorious Checkerspot, W Mexico

Chlosyne janais marianna Röber, 1914, Crimson-patch Checkerspot, S-C Mexico (Balsas Basin)

Chlosyne janais janais (Drury, 1782), Crimson-patch Checkerspot, C & S TX, T & S Mexico to Colombia

Chlosyne ehrenbergii (Geyer, [1833]), White-rayed Checkerspot, Mexico

Chlosyne definitiva definitiva (E. Aaron, 1885), Definite Checkerspot, S NM, S & W TX, NE Mexico

Chlosyne definitiva anastasia (Hemming, 1934), Definite Checkerspot, C & NW Mexico

Chlosyne eumeda (Godman & Salvin, 1894) (NW Mexican segregate), Eumeda Checkerspot, Sonora & Sinaloa, NW Mexico

Chlosyne eumeda (Godman & Salvin, 1894) (W Mexican segregate), Eumeda Checkerspot, W Mexico (Nayarit to Guerrero)

Chlosyne marina (Geyer, 1837) (NW Mexico), Marina Checkerspot, Sonora, Chihuahua

Chlosyne marina (Geyer, 1837) (SW Mexico), Marina Checkerspot, Guerrero and Oaxaca

Chlosyne marina (Geyer, 1837) (Chiapas), Marina Checkerspot, Chiapas

Chlosyne melitaeoides (C. Felder & R. Felder, 1867), Melitaeoides Checkerspot, S TX (as vagrant), E Mexico

Chlosyne erodyle (H. Bates, 1864) (Oaxaca), Erodyle Checkerspot, Oaxaca

Chlosyne erodyle erodyle (H. Bates, 1864), Erodyle Checkerspot, Chiapas to NW Costa Rica

- Chlosyne poecile (C. Felder & R. Felder, 1867), Poecile Checkerspot, SW Costa Rica to Venezuela
- Chlosyne endeis endeis (Godman & Salvin, 1894), Banded Checkerspot, W Mexico
- Chlosyne endeis pardelina Scott, 1986, Banded Checkerspot, S TX, NE Mexico
- Chlosyne melanarge (H. Bates, 1864), Cream-banded Checkerspot, E Mexico to Costa Rica
- Chlosyne hippodrome hippodrome (Geyer, 1837), Simple Checkerspot, E & W Mexico to Colombia
- Chlosyne rosita rosita A. Hall, 1924, Rosita Checkerspot, Chiapas, Guatemala, El Salvador
- Chlosyne rosita browni Bauer, 1961, Rosita Checkerspot, S TX (as stray), E Mexico
- Chlosyne rosita riobalsensis Bauer, 1961, Rosita Checkerspot, SW Mexico (Rio Balsas basin) [mazarum = form of riobalsensis]
- Chlosyne rosita montana A. Hall, 1924, Rosita Checkerspot, C and NW Mexico, SE AZ (as stray)
- Chlosyne perlula (C. Felder & R. Felder, 1861), Perula Checkerspot, Venezuela & Colombia
- Chlosyne ezra (Hewitson, 1864), Ezra Checkerspot, Costa Rica & Panama
- Chlosyne theona costaricensis (Austin & M. Smith, 1998), Theona Checkerspot, NW Costa Rica, SW Nicaragua
- Chlosyne theona theona (Ménétriés, 1855), Theona Checkerspot, Chiapas to Nicaragua
- Chlosyne theona minimus (Austin & M. Smith, 1998), Theona Checkerspot, Yucatan Peninsula to Honduras
- Chlosyne theona mullinsi (Austin & M. Smith, 1998), Theona Checkerspot, SW & C Mexico
- Chlosyne theona brocki (Austin & M. Smith, 1998), Theona Checkerspot, NW Mexico (Sonora to N Nayarit)
- Chlosyne theona thekla (W. H. Edwards, 1870), Theona Checkerspot, far NW Mexico (N Sonora, SE AZ, SW NM)
- Chlosyne theona bollii (W. H. Edwards, 1877), Theona Checkerspot, C Texas, NE Mexico
- Chlosyne theona chinatiensis (Tinkham, 1944), Theona Checkerspot, W TX, N-C Mexico (Durango)
- Chlosyne cyneas (Godman & Salvin, 1878), Cyneas Checkerspot, SE AZ, SW NM, S to Oaxaca
- Chlosyne cynisca (Godman & Salvin, 1882), Oaxacan Checkerspot, Oaxaca, Puebla
- Chlosyne fulvia fulvia (W. H. Edwards, 1879), Fulvia Checkerspot, W NE, W KS, E CO, E NM, W TX, far NE Mexico



- Chlosyne fulvia pariaensis (M. Smith & Brock, 1988), Fulvia Checkerspot, S-central UT, N-central AZ
- Chlosyne fulvia coronado (M. Smith & Brock, 1988), Fulvia Checkerspot, AZ, SW NM, far NW Mexico
- Chlosyne leanira oregonensis Bauer, 1975, Leanira Checkerspot , [MORE INFO ...](#)
- Chlosyne leanira leanira (C. Felder & R. Felder, 1860), Leanira Checkerspot , [MORE INFO ...](#)
- Chlosyne leanira obsoleta (Hy. Edwards, 1877), Leanira Checkerspot , [MORE INFO ...](#)
- Chlosyne leanira nebularum (Austin & M. Smith, 1998), Leanira Checkerspot , [MORE INFO ...](#)
- Chlosyne leanira elegans (Priestaf & J. Emmel, 1998), Leanira Checkerspot , [MORE INFO ...](#)
- Chlosyne leanira wrightii (W. H. Edwards, 1886), Leanira Checkerspot , [MORE INFO ...](#)
- Chlosyne leanira austrima (Austin & M. Smith, 1998), Leanira Checkerspot , [MORE INFO ...](#)
- Chlosyne leanira alma (Strecker, [1878]), Leanira Checkerspot , [MORE INFO ...](#)
- Chlosyne leanira basinensis (Austin & M. Smith, 1998), Leanira Checkerspot , [MORE INFO ...](#)
- Chlosyne leanira flavodorsalis (Austin & M. Smith, 1998), Leanira Checkerspot , [MORE INFO ...](#)
- Chlosyne nycteis pastoron Pelham, 2008, Silvery Checkerspot, [= obsoleta]
- Chlosyne nycteis nycteis (E. Doubleday, [1847]), Silvery Checkerspot, [MORE INFO ...](#)
- Chlosyne nycteis reversa (F. Chermock & R. Chermock, 1940), Silvery Checkerspot, [MORE INFO ...](#)
- Chlosyne nycteis drusius (W. H. Edwards, 1884), Silvery Checkerspot, [MORE INFO ...](#)
- Chlosyne gorgone gorgone (Hübner, 1810), Gorgone Checkerspot, [MORE INFO ...](#)
- Chlosyne gorgone carlota (Reakirt, 1866), Gorgone Checkerspot, [MORE INFO ...](#)
- Chlosyne californica (W. G. Wright, 1905), California Patch, [MORE INFO ...](#)
- Chlosyne lacinia lacinia (Geyer, 1837), Bordered Patch, C Mexico to Panama
- Chlosyne lacinia crocale (W. H. Edwards, 1874), Bordered Patch, NW Mexico, SW USA (strays N)
- Chlosyne lacinia adjutrix Scudder, 1875, Bordered Patch, NE Mexico, S & C Texas (strays N)
- Chlosyne kendallorum Opler, 1999, Kendall's Checkerspot, NE Mexico

- Chlosyne harrisii harrisii (Scudder, 1863), Harris's Checkerspot, MORE INFO ...
- Chlosyne harrisii albimontana (Avinoff, 1930), Harris's Checkerspot, MORE INFO ...
- Chlosyne harrisii liggetti (Avinoff, 1930), Harris's Checkerspot, MORE INFO ...
- Chlosyne harrisii hanhami (J. Fletcher, 1903), Harris's Checkerspot, MORE INFO ...
- Chlosyne hoffmanni hoffmanni (Behr, 1863), Hoffmann's Checkerspot, MORE INFO ...
- Chlosyne hoffmanni segregata (W. Barnes & McDunnough, 1918), Hoffmann's Checkerspot, MORE INFO ...
- Chlosyne hoffmanni manchada Bauer, 1960, Hoffmann's Checkerspot, MORE INFO ...
- Chlosyne whitneyi (Behr, 1863), Sierra Nevada Checkerspot, MORE INFO ...
- Chlosyne acastus sabina (W. G. Wright, 1905), Sagebrush Checkerspot, MORE INFO ...
- Chlosyne acastus neumoegei (Skinner, 1895), Sagebrush Checkerspot, MORE INFO ...
- Chlosyne acastus acastus (W. H. Edwards, 1874) (1870), Sagebrush Checkerspot, MORE INFO ...
- Chlosyne acastus arkanyon M. Fisher, & Scott, 2006, Sagebrush Checkerspot, MORE INFO ...
- Chlosyne acastus vallismortis (J. Johnson, 1938), Sagebrush Checkerspot, MORE INFO ...
- Chlosyne acastus robusta Austin, 1998, Sagebrush Checkerspot, MORE INFO ...
- Chlosyne acastus waucoba J. Emmel, T. Emmel & Mattoon, 1998, Sagebrush Checkerspot, MORE INFO ...
- Chlosyne acastus (W. H. Edwards, 1874) (1870) (far N Great Basin segregate), Sagebrush Checkerspot, [nr. acastus]
- Chlosyne acastus dorothyi Bauer, 1975, Sagebrush Checkerspot, MORE INFO ...
- Chlosyne acastus sterope (W. H. Edwards, 1870), Sagebrush Checkerspot, MORE INFO ...
- Chlosyne gabbii gabbii (Behr, 1863), Gabb's Checkerspot , MORE INFO ...
- Chlosyne gabbii atrifasciata Hawks & J. Emmel, 1998, Gabb's Checkerspot , MORE INFO ...
- Chlosyne palla eremita (W. G. Wright, 1905), Northern Checkerspot, MORE INFO ...
- Chlosyne palla palla (Boisduval, 1852), Northern Checkerspot, MORE INFO ...
- Chlosyne palla (Boisduval, 1852) (E Columbia Gorge segregate), Northern Checkerspot, MORE INFO ...
- Chlosyne palla (Boisduval, 1852) (E-central OR Cascades), Northern Checkerspot, MORE INFO ...



Chlosyne palla altasierra J. Emmel, T. Emmel & Mattoon, 1998, Northern Checkerspot, MORE INFO ...

Chlosyne palla australomontana J. Emmel, T. Emmel & Mattoon, 1998, Northern Checkerspot, MORE INFO ...

Chlosyne palla blackmorei Pelham, 2008, Northern Checkerspot, MORE INFO ...

Chlosyne palla flavula (W. Barnes & McDunnough, 1918), Northern Checkerspot, MORE INFO ...

Chlosyne palla calydon (W. Holland, 1931), Northern Checkerspot, MORE INFO ...

Chlosyne damoetas damoetas (Skinner, 1902), Rockslide Checkerspot, MORE INFO ...

Chlosyne damoetas windriver Scott, 1998, Rockslide Checkerspot, MORE INFO ...

Chlosyne damoetas altalus Scott, 1998, Rockslide Checkerspot, MORE INFO ...

Microtia elva elva H. Bates, 1864, Elf, S AZ & S TX (as stray), E & W Mexico to Costa Rica

Microtia elva horni Rebel, 1906, Elf, S Mexico & Guatemala

Dymasia dymas dymas (W. H. Edwards, 1877), Tiny Checkerspot , C TX to NE Mexico

Dymasia dymas chara (W. H. Edwards, [1884]), Tiny Checkerspot , S AZ, S NM, W TX, NW Mexico, Baja California Sur

Dymasia dymas imperialis (Bauer, 1959), Tiny Checkerspot , S CA, Baja California Norte

Texola perse (W. H. Edwards, 1882), Arizona Checkerspot, S AZ, SW NM, N Sonora, NW Chihuahua

Texola elada hepburni (Godman, 1901), Elada Checkerspot, NW Mexico

Texola elada elada (Hewitson, 1868), Elada Checkerspot, C & S Mexico

Texola elada ulrica (W. H. Edwards, 1877), Elada Checkerspot , C & W TX, NE Mexico

Texola anomalus (Godman & Salvin, 1897), Anomalus Checkerspot , W Mexico (Nayarit to Michoacan)

Texola coracara (Dyar, 1912), Coracara Checkerspot, SW Mexico (Morelos, Guerrero, Oaxaca)

Antillea pelops pelops (Drury, 1773), Antillean Crescent, Hispaniola, Puerto Rico, St. Kitts

Antillea pelops anocaona (Herrich-Schäffer, 1865), Antillean Crescent, Cuba

Antillea pelops pygmaea (Godart, 1819), Antillean Crescent, Jamaica

Antillea proclea (Doubleday, [1847]), Jamaican Crescent, Jamaica

Eresia clio clio (Linnaeus, 1758), Clio Crescent, [= clara], S Mexico to Brazil & Bolivia



- Eresia emerantia coela H. Druce, 1874, Emerantia Crescent, Costa Rica & NE Panama
- Eresia ithomioides alsina Hewitson, 1869, Variable Crescent, Nicaragua, Costa Rica, W Panama
- Eresia ithomioides eutropia Hewitson, 1874, Variable Crescent, [= melania], Costa Rica, Panama, W Colombia
- Eresia ithomioides poecilina H. Bates, 1866, Variable Crescent, Costa Rica & Panama
- Eresia sticta Schaus, 1913, Costa Rican Crescent, Costa Rica (Carrillo belt, Atlantic slope), [Colombia?]
- Eresia phillyra phillyra Hewitson, 1852, Longwing Crescent, E & S Mexico, Guatemala
- Eresia phyllira nigripennis Salvin, 1869, Longwing Crescent, Costa Rica, [Panama?]
- Eresia eunice mechanitis Godman & Salvin, 1878, Eunice Crescent, Nicaragua to Panama
- Eresia eunice drypetis Godman & Salvin, 1878, Eunice Crescent, Panama, Colombia
- Castilia eranites (Hewitson, 1857), Mimic Crescent, S Mexico to Colombia & Venezuela
- Castilia chinantlensis (R. F. De la Maza, 1978), Chinantlan Crescent, SE Mexico (Sierra de Juarez, Oaxaca)
- Castilia fulgora (Godman & Salvin, 1878), Fulgora Crescent, Costa Rica (Atlantic slope, Cordillera Central) & W Panama
- Castilia chiapaensis (Beutelspacher, 1990), Chiapas Crescent , S Mexico (Chiapas)
- Castilia ofella (Hewitson, [1864]), White-dotted Crescent , S Mexico, Guatemala to Colombia, Venezuela, Trinidad
- Castilia myia (Hewitson, [1864]), Mayan Crescent , E & W Mexico to Panama
- Castilia griseobasalis (Röber, 1913), Gray-based Crescent, E & W Mexico to Costa Rica
- Janatella leucodesma (C. Felder & R. Felder, 1861), Whitened Crescent, Nicaragua to Venezuela & Trinidad
- Tegosa nigrella nigrella (H. Bates, 1866), Nigrella Crescent, S Mexico (Chiapas), Guatemala, Honduras
- Tegosa nigrella niveonotis (Butler & H. Druce, 1872), Nigrella Crescent, Costa Rica (Atlantic slope)
- Tegosa anieta luka Higgins, 1981, Black-bordered Crescent , S TX (rare stray), E Mexico to Honduras
- Tegosa anieta cluvia (Godman & Salvin, 1882), Black-bordered Crescent , Chiapas & Guatemala

Tegosa anieta anieta (Hewitson, 1864), Black-bordered Crescent , Nicaragua to Venezuela & Trinidad

Tegosa claudina (Eschscholtz, 1821), Claudina Crescent, SE Mexico to Argentina

Tegosa guatemalena (H. Bates, 1864), Guatemalan Crescent, E & W Mexico, Guatemala, Belize

Anthanassa texana texana (W. H. Edwards, 1863), Texan Crescent , AZ to TX (strays far N), Baja, E & W Mexico to Guatemala

Anthanassa texana seminole (Skinner, 1911), Texan Crescent , SC to FL, E to LA & far E TX

Anthanassa ardys (Hewitson, 1864) (Typical segregate), Ardys Crescent, E & W Mexico through Oaxaca

Anthanassa ardys (Hewitson, 1864) (S Central American segregate), Ardys Crescent, Nicaragua to Colombia

Anthanassa subota (Godman & Salvin, 1878) (Typical segregate), Cryptic Crescent, Chiapas & Guatemala

Anthanassa subota (Godman & Salvin, 1878) (Northern segregate), Cryptic Crescent, W Mexico (Nayarit to Oaxaca)

Anthanassa drusilla lelex (H. Bates, 1864), Orange-patched Crescent, S TX (rare stray), E & S Mexico to Panama

Anthanassa drusilla drusilla (C. Felder & R. Felder, 1861), Orange-patched Crescent, Panama, Colombia, Venezuela, Ecuador

Anthanassa dracaena phlegias (Godman, 1901), Notched Crescent, S Mexico to Costa Rica

Anthanassa sosis (Godman & Salvin, 1878), Sosis Crescent, [= dora], Costa Rica to Colombia

Anthanassa drymaea (Godman & Salvin, 1878), Weak-banded Crescent, S Mexico (Chiapas), Guatemala, Honduras

Anthanassa nebulosa alexon (Godman & Salvin, 1889), Alexon Crescent, [= subconcolor], E & W Mexico

Anthanassa nebulosa nebulosa (Godman & Salvin, 1878), Nebulosa Crescent, Chiapas & Guatemala

Anthanassa ptolyca amator (A. Hall, 1929), Darkened Crescent, W Mexico

Anthanassa ptolyca (H. Bates, 1864) (E Mexican segregate), Darkened Crescent, S TX (rare stray), E Mexico

Anthanassa ptolyca ptolyca (H. Bates, 1864), Darkened Crescent, Chiapas to Venezuela

Anthanassa sitalces cortes (A. Hall, 1917), Montane Crescent, W Mexico to Oaxaca



Anthanassa sitalces sitalces (Godman & Salvin, 1882), Montane Crescent, Chiapas & Guatemala

Anthanassa argentea (Godman & Salvin, 1882), Chestnut Crescent, S TX (as stray), E & S Mexico, Guatemala, Nicaragua

Anthanassa atronia (H. Bates, 1866), Brown Crescent, E & S Mexico to Panama

Anthanassa otares cyno (Godman & Salvin, 1889), Blackened Crescent, E Mexico

Anthanassa otares oaxaca Beutelspacher, 1990, Blackened Crescent, vic. Sierra de Juarez, Oaxaca, Mexico

Anthanassa otares otares (Hewitson, 1864), Blackened Crescent, [= *sopolis*], Chiapas, W Guatemala to Costa Rica; also W Mexico?

Anthanassa otares fulviplaga (Butler, 1872), Blackened Crescent, Costa Rica & Panama

Anthanassa crithona (Salvin, 1871), Orange-banded Crescent, Nicaragua to Panama

Anthanassa frisia frisia (Poey, 1832), Cuban Crescent, S FL (strays N), N Bahamas, Cuba, Hispaniola, Jamaica

Anthanassa tucis (H. Bates, 1864), Pale-banded Crescent, SE AZ (as stray), S TX, E & W Mexico to Panama

Phyciodes graphica (R. Felder, 1869), Vesta Crescent, [= *vesta*]

Phyciodes pallescens (R. Felder, 1869), Mexican Crescent, E & W Mexico, SE AZ as rare stray

Phyciodes picta picta (W. H. Edwards, 1865), Painted Crescent, MORE INFO ...

Phyciodes picta canace W. H. Edwards, 1871, Painted Crescent, MORE INFO ...

Phyciodes orseis orseis W. H. Edwards, 1871, California Crescent, MORE INFO ...

Phyciodes orseis W. H. Edwards, 1871 (Warner Mts. segregate), California Crescent, Warner Mts. (OR/CA) W to SE Siskiyou Co., CA

Phyciodes orseis herlani Bauer, 1975, California Crescent, MORE INFO ...

Phyciodes pallida pallida (W. H. Edwards, 1864), Pale Crescent, MORE INFO ...

Phyciodes pallida barnesi Skinner, 1897, Pale Crescent, MORE INFO ...

Phyciodes mylitta mylitta (W. H. Edwards, 1861), Mylitta Crescent, BC to MT, S to S CA

Phyciodes mylitta arizonensis Bauer, 1975, Mylitta Crescent, AZ, NM, W TX, N to E CO, far NW Mexico

Phyciodes mylitta mexicana A. Hall, 1928, Mylitta Crescent, MORE INFO ...

Phyciodes mylitta thebais Godman & Salvin, 1878, Mylitta Crescent, [= *arida*]

Phyciodes phaon phaon (W. H. Edwards, 1864), Phaon Crescent, E & C Mexico, TX to FL & VA (strays far N), Cuba, Grand Cayman



Phyciodes phaon jalapeno Scott, 1998, Phaon Crescent, NW Mexico & Baja (N), S CA, S AZ

Phyciodes phaon maya A. Hall, 1928, Phaon Crescent, Chiapas & Guatemala

Phyciodes tharos tharos (Drury, 1773), Pearl Crescent , MORE INFO ...

Phyciodes tharos orantain Scott, 1998, Pearl Crescent , MORE INFO ...

Phyciodes tharos riocolorado Scott, 1992, Pearl Crescent , MORE INFO ...

Phyciodes cocyta cocyta (Cramer, 1777), Northern Crescent, MORE INFO ...

Phyciodes cocyta selenis (W. Kirby, 1837), Northern Crescent, MORE INFO ...

Phyciodes cocyta diminutor Scott, 1998, Northern Crescent, MORE INFO ...

Phyciodes cocyta incognitus Gatrell, 2004, Northern Crescent, MORE INFO ...

Phyciodes cocyta pascoensis W. G. Wright, 1905, Northern Crescent, MORE INFO ...

Phyciodes cocyta arenacolor, Austin, 1998, Northern Crescent, MORE INFO ...

Phyciodes batesii anasazi Scott, 1994, Tawny Crescent, MORE INFO ...

Phyciodes batesii apsaalooke Scott, 1994, Tawny Crescent, MORE INFO ...

Phyciodes batesii lakota Scott, 1994, Tawny Crescent, MORE INFO ...

Phyciodes batesii saskatchewan Scott, 2006, Tawny Crescent, MORE INFO ...

Phyciodes batesii batesii (Reakirt, [1866]), Tawny Crescent, MORE INFO ...

Phyciodes batesii maconensis Gatrell, 1998, Tawny Crescent, MORE INFO ...

Phyciodes pulchella tutchone Scott, 1994, Field Crescent, MORE INFO ...

Phyciodes pulchella owimba Scott, 1998, Field Crescent, MORE INFO ...

Phyciodes pulchella (Boisduval, 1852) (Siskiyou segregate), Field Crescent, Siskiyou Mts., SW OR, NW CA

Phyciodes pulchella (Boisduval, 1852) (Willamette Valley segregate), Field Crescent, Willamette Valley, W Oregon

Phyciodes pulchella pulchella (Boisduval, 1852), Field Crescent, MORE INFO ...

Phyciodes pulchella deltarufa Scott, 1998, Field Crescent, MORE INFO ...

Phyciodes pulchella (Boisduval, 1852) (S CA Sierra Nevada, low elevations), Field Crescent, MORE INFO ...

Phyciodes pulchella montana (Behr, 1863), Field Crescent, MORE INFO ...

Phyciodes pulchella (Boisduval, 1852) (OR Cascades, high elevations), Field Crescent, [nr. montana]

Phyciodes pulchella vallis Austin, 1998, Field Crescent, [MORE INFO ...](#)

Phyciodes pulchella inornatus Austin, 1998, Field Crescent, [MORE INFO ...](#)

Phyciodes pulchella shoshoni Scott, 1994, Field Crescent, [MORE INFO ...](#)

Phyciodes pulchella camillus W. H. Edwards, 1871, Field Crescent, [MORE INFO ...](#)

Phyciodes pulchella sacramento Scott, 2006, Field Crescent, [MORE INFO ...](#)

Subfamily Charaxinae Guenée, 1865, Leafwings and relatives,

Tribe Anaeini Reuter, 1896

Consul electra adustus Lamas, 2003, Pearly Leafwing, W Mexico (NAY to MICH)

Consul electra electra (Westwood, 1850), Pearly Leafwing, E Mexico to Panama

Consul panariste jansoni (Salvin, 1871), Blackened Leafwing, Guatemala to Panama

Consul excellens excellens (H. Bates, 1864), Black-veined Leafwing, E Chiapas to Guatemala

Consul excellens genini (Le Cerf, 1922), Black-veined Leafwing, S Mexico (Oaxaca, W Chiapas) to Guatemala

Consul fabius cecrops (Doubleday, [1849]) , Tiger-striped Leafwing , E & W Mexico to Bolivia

Hypna clytemnestra mexicana A. Hall, 1917, Silver-studded Leafwing, W Mexico, Guatemala

Hypna clytemnestra negra C. Felder & R. Felder, 1862, Silver-studded Leafwing, Nicaragua to Bolivia

Hypna clytemnestra iphigenia Herrich-Schäffer, 1862, Silver-studded Leafwing, Cuba

Siderone galanthis galanthis (Cramer, 1775), Red-striped Leafwing, Central America to Amazon Basin

Siderone galanthis (Cramer, 1775) (Mexican segregate), Red-striped Leafwing, E & W Mexico to Central America

Siderone galanthis nemesis (Illiger, 1801), Red-striped Leafwing, Cuba & Isla de Juventud, Hispaniola, Puerto Rico

Siderone syntycha syntycha Hewitson, [1854], Red-patched Leafwing, S Mexico through Central America

Zaretis callidryas (R. Felder, 1869), Pale Leafwing, E & W Mexico to Panama

Zaretis ellops (Ménétriés, 1855), Seasonal Leafwing, [= *anzuleta*], E & W Mexico to Colombia & NW Venezuela

Zaretis isidora (Cramer, 1779), Isidora Leafwing, [S Mexico] to Ecuador & Argentina

Zaretis itys itys (Cramer, 1777), Itys Leafwing, S Mexico (SE Chiapas) to Amazon Basin and Bolivia

Anaea troglodyta floridalis F. Johnson & W. Comstock, 1941, Florida Leafwing, S FL

Anaea troglodyta cubana (H. Druce, 1905), Florida Leafwing, Cuba & Isla de Juventud, Grand Cayman

Anaea troglodyta portia (Fabricius, 1775), Florida Leafwing, Jamaica

Anaea troglodyta troglodyta (Fabricius, 1775), Florida Leafwing, Hispaniola

Anaea troglodyta borinquenalis F. Johnson & W. Comstock, 1941, Florida Leafwing, Mona Island & Puerto Rico, [Culebra]

Anaea troglodyta astina (Fabricius, 1793), Florida Leafwing, Virgin Islands (St. Thomas, St. Croix, Tortola)

Anaea troglodyta minor A. Hall, 1936, Florida Leafwing, N Lesser Antilles (St. Bartholomew & St. Kitts to Guadeloupe)

Anaea aidea (Guérin-Méneville, [1844]), Tropical Leafwing, S TX (strays far N), E & W Mexico to Costa Rica

Anaea andria Scudder, 1875, Goatweed Leafwing, SE AZ, far N Mexico, to E CO, E to IL, N FL, strays N

Fountainea rayoensis (J. De la Maza & Díaz, 1978), Rayo Leafwing, SW Mexico (NAY to OAX)

Fountainea nobilis nobilis (H. Bates, 1864), Noble Leafwing, S Mexico (SW Chiapas) & Guatemala

Fountainea nobilis peralta (A. Hall, 1929), Noble Leafwing, Costa Rica & Panama

Fountainea eurypyle glanzi (Rotger, Escalante & Coronado, 1965), Pointed Leafwing, W Mexico (SIN to S OAX)

Fountainea eurypyle confusa (A. Hall, 1929), Pointed Leafwing, E Mexico to Panama

Fountainea ryphea ryphea (Cramer, 1775), Ryphea Leafwing, E Mexico to Amazon Basin

Fountainea halice tehuana (A. Hall, 1917), 'West-Mexican' Thorn-scrub Leafwing, W Mexico (JAL to S CHIS)

Fountainea halice maya (Witt, 1980), 'Yucatan' Thorn-scrub Leafwing, Yucatan Peninsula

Fountainea halice martinezi (J. De la Maza & Díaz, 1978), Thorn-scrub Leafwing, SE Mexico (VER, N OAX)

Fountainea halice chrysophana (H. Bates, 1866), Thorn-scrub Leafwing, Costa Rica & Panama

Fountainea glycerium glycerium (E. Doubleday, [1849]), Angled Leafwing, E & W Mexico to Panama

Fountainea glycerium yucatanum (Witt, 1980), Angled Leafwing, Yucatan Peninsula

Fountainea johnsoni (Avinoff & Shoumatoff, 1941), Jamaican Leafwing, Jamaica, Hispaniola

Memphis verticordia (Hübner, [1831]), Hispaniolan Leafwing, Hispaniola

Memphis echemus echemus (Doubleday, [1849]), Cuban Leafwing, Cuba & Isla de Juventud; one-time stray to Texas

Memphis echemus bahamae (Witt, 1972), Cuban Leafwing, Bahamas: New Providence & Andros

Memphis echemus danielana (Witt, 1972), Cuban Leafwing, Cayman Islands

Memphis intermedia intermedia (Witt, 1972), Bahaman Leafwing, Islands of Great Inagua Bank & Turks, Caicos

Memphis intermedia venus L. Miller, Simon & Harvey, 1992, Bahaman Leafwing, Islands of Crooked - Acklins Bank

Memphis intermedia mayaguanae L. Miller, Simon & Harvey, 1992, Bahaman Leafwing, Mayaguana Bank

Memphis dominicana dominicana (Godman & Salvin, 1884), Dominican Leafwing, Dominica

Memphis dominicana luciana (A. Hall, 1929), Dominican Leafwing, St. Lucia

Memphis aureola (H. Bates, 1866), Aureola Leafwing, E & S Mexico to Colombia

Memphis perenna perenna (Godman & Salvin, 1884), Perenna Leafwing, E & SW Mexico & Guatemala

Memphis perenna lankesteri (A. Hall, 1935), Perenna Leafwing, Costa Rica

Memphis herbacea (Butler & H. Druce, 1872), Herbacea Leafwing, SE Mexico to Costa Rica

Memphis ambrosia ambrosia (H. Druce, 1874), Ambrosia Leafwing, Costa Rica & Panama

Memphis beatrix (H. Druce, 1874), Beatrix Leafwing, Costa Rica & Panama

Memphis schausiana (Godman & Salvin, 1894), Great Leafwing, C Veracruz

Memphis proserpina (Salvin, 1869), Proserpina Leafwing, SE Mexico to Costa Rica

Memphis elara (Godman & Salvin, 1897), Elara Leafwing, Costa Rica & W Panama

Memphis kingi (L. Miller & Nicolay, 1971), King's Leafwing, Panama (Cerro Campana, Chiriqui, Canal Zone)

Memphis philumena xenica (H. Bates, 1864), Orange-striped Leafwing, E Mexico & Guatemala

Memphis philumena indigotica (Salvin, 1869), Orange-striped Leafwing, Costa Rica & Panama

Memphis glauce centralis (Röber, 1916), Glauce Leafwing, Honduras to Panama

Memphis xenocles carolina (W. Comstock, 1961), Carolina Leafwing, SE Mexico to Panama

Memphis neidhoeferi (Rotger, Escalante & Coronado, 1965), Wavy-edged Leafwing, SE Mexico to Costa Rica

Memphis arginussa eubaena (Boisduval, 1870), Mottled Leafwing, SE Mexico to Panama

Memphis moruus boisduvali (W. Comstock, 1961), Boisduval's Leafwing, E Mexico to Panama

Memphis lyceus (H. Druce, 1877), Lyceus Leafwing, Costa Rica to Bolivia

Memphis laura balboa (A. Hall, 1927), Laura Leafwing, Costa Rica & Panama

Memphis oenomais (Boisduval, 1870), Edge Leafwing, E Mexico through Central America

Memphis artacaena (Hewitson, 1869), White-patched Leafwing, SE Mexico to Colombia

Memphis dia dia (Godman & Salvin, 1884), Dia Leafwing, SE Mexico to Panama

Memphis pithyusa pithyusa (R. Felder, 1869), Pale-spotted Leafwing, S TX, E & W Mexico to Bolivia

Memphis forreri (Godman & Salvin, 1884), Forrer's Leafwing, S TX (rare vagrant), E & W Mexico to Costa Rica

Memphis mora orthesia (Godman & Salvin, 1884), Orthesia Leafwing, SE Mexico to Panama

Memphis hedemanni (R. Felder, 1869), Hedemann's Leafwing, SE Mexico, Guatemala

Memphis wellingi L. Miller & J. Y. Miller, 1976, Welling's Leafwing, SW Mexico (S OAX, S CHIS)

Memphis cleomestra ada (Butler, 1875), Cleomestra Leafwing, Costa Rica & Panama

Memphis aulica (Röber, 1916), Aulica Leafwing, Costa Rica & Panama

Tribe Preponini Rydon, 1971

Archaeoprepona amphimachus baroni J. De la Maza, 1982, White-spotted Prepona, SW Mexico (GRO, S OAX)

Archaeoprepona amphimachus amphiktion (Fruhstorfer, 1916), White-spotted Prepona, E Mexico to Colombia

Archaeoprepona demophon occidentalis (Stoffel & Descimon, 1974), One-spotted Prepona, W Mexico (SIN to S OAX)

Archaeoprepona demophon centralis (Fruhstorfer, 1905), One-spotted Prepona, S TX (rare stray), E Mexico through Panama

Archaeoprepona demophoon mexicana Llorente, Descimon & K. Johnson, 1993, Two-spotted Prepona, W Mexico (NAY to S OAX)

Archaeoprepona demophoon gulina (Fruhstorfer, 1904), Two-spotted Prepona, E Mexico to Amazon basin

Archaeoprepona demophoon crassina (Fruhstorfer, 1904), Two-spotted Prepona, Cuba

Archaeoprepona demophoon insulicola (Fruhstorfer, 1897), Two-spotted Prepona, Hispaniola

Archaeoprepona demophoon ramosorum K. Johnson & Descimon, 1989, Two-spotted Prepona, Puerto Rico

Archaeoprepona camilla camilla (Godman & Salvin, 1884), Pale Prepona, Nicaragua to Panama

Archaeoprepona meander phoebus (Boisduval, 1870), Three-toned Prepona, SE Mexico to Honduras

Archaeoprepona meander megabates (Fruhstorfer, 1916), Three-toned Prepona, Panama to Bolivia

Archaeoprepona phaedra (Godman & Salvin, 1884) (SW Mexican segregate), Falcate Prepona, SW Mexico (GRO, S OAX)

Archaeoprepona phaedra aelia (Godman & Salvin, 1889), Falcate Prepona, SE Mexico possibly to Nicaragua

Archaeoprepona phaedra phaedra (Godman & Salvin, 1884), Falcate Prepona, Costa Rica & Panama

Prepona deiphile (Godart, [1824]) (Nayarit segregate), Orange-spotted Prepona, Sierra de San Juan, Nayarit, Mexico

Prepona deiphile lambertoana Llorente, Luis & González, 1992, Orange-spotted Prepona, Michoacán, Estado de Mexico

Prepona deiphile ibarra Beutelspacher, 1982, Orange-spotted Prepona, Guerrero, SW Mexico

Prepona deiphile brooksiana Godman & Salvin, 1889, Orange-spotted Prepona, E Mexico (SLP to N OAX)

Prepona deiphile escalantiana Stoffel & Mast, 1973, Orange-spotted Prepona, SE Mexico (vic. Los Tuxtlas, Veracruz)

Prepona deiphile (Godart, [1824]) (NW Chiapas segregate), Orange-spotted Prepona, NW Chiapas

Prepona deiphile diaziana L. Miller & J. Miller, 1976, Orange-spotted Prepona, E Chiapas

Prepona deiphile salvadora Llorente, Luis & González, 1992, Orange-spotted Prepona, El Salvador

Prepona deiphile lygia Fruhstorfer, 1904, Orange-spotted Prepona, Costa Rica & Panama

Prepona dexamenus medinae Beutelspacher, 1981, Least Prepona, SE Mexico to Honduras

Prepona dexamenus dexamenus Hopffer, 1874, Least Prepona, Panama to Amazon Basin

Prepona laertes octavia Fruhstorfer, 1905, Yellow-tufted Prepona, E & W Mexico through Central America

Prepona pylene philetas Fruhstorfer, 1904, Mottled Prepona , SE Mexico to Honduras

Prepona pylene gnorima H. Bates, 1865, Mottled Prepona , Honduras to Colombia

Agrias aedon rodriguezi Schaus, 1918, Great Agrias, S Mexico (SE Chiapas) to Costa Rica

Agrias amydon lacandona R. G. De la Maza & J. De la Maza, 1999, White-spotted Agrias, SE Mexico (SE Chiapas) to Honduras

Agrias amydon oaxacata Kruck, 1931, White-spotted Agrias, S Mexico (N OAX) to Guatemala

Agrias amydon philatelica DeVries, 1980, White-spotted Agrias, Nicaragua to Panama

Agrias amydon smalli L. Miller & Nicolay, 1971, White-spotted Agrias, Panama (vic. Canal Zone)

Subfamily Satyrinae Boisduval, [1833] (1820), Satyrs,

Tribe Morphini Newman, 1834, Morphos and Antirrheas,

Antirrhea pterocopa pterocopa Salvin & Godman, 1868, Brilliant Antirrhea, Costa Rica & W Panama (Atlantic slope; Carrillo Belt)

Antirrhea philoctetes casta H. Bates, 1865, Northern Antirrhea , SE Mexico, Guatemala

Antirrhea philoctetes lindigii C. Felder & R. Felder, 1862, Northern *Antirrhea* , [= *miltiades*], Guatemala to Amazon Basin; Atlantic slope

Antirrhea philoctetes tomasia Butler, 1875, Northern *Antirrhea* , Costa Rica & Panama (Pacific slope)

Caerois gerdrudtus (Fabricius, 1793), False *Antirrhea*, Costa Rica to W Ecuador

Morpho cypris aphrodite Le Moult & Réal, 1962, *Cypris Morpho*, Honduras, Nicaragua

Morpho cypris bugaba Staudinger, 1887, *Cypris Morpho*, Costa Rica & Panama

Morpho deidamia polybaptus Butler, 1875, Scarce *Morpho*, Nicaragua to Panama; Atlantic slope

Morpho deidamia granadensis C. Felder & R. Felder, 1867, Scarce *Morpho*, Panama to Colombia

Morpho helenor guerrerensis Le Moult & Réal, 1962, Common *Morpho* , SW Mexico (MICH to S OAX)

Morpho helenor montezuma Guenée, 1859, Common *Morpho* , E Mexico to Honduras

Morpho helenor octavia H. Bates, 1864, Common *Morpho* , SW Mexico (Chiapas) to El Salvador

Morpho helenor narcissus Staudinger, 1887, Common *Morpho* , Nicaragua to Panama

Morpho helenor marinita Butler, 1872, Common *Morpho* , SW Costa Rica to Panama (Pacific slope)

Morpho helenor zonaras Fruhstorfer, 1912, Common *Morpho* , Panama

Morpho helenor peleides Kollar, 1850, Common *Morpho* , Panama to Colombia

Morpho menelaus amathonte Deyrolle, 1860, *Menelaus Morpho*, Nicaragua to Panama

Morpho polyphemus polyphemus Westwood, 1850, White *Morpho*, SE AZ (rare stray), W Mexico to El Salvador

Morpho polyphemus luna Butler, 1869, White *Morpho*, SE Mexico to Guatemala

Morpho polyphemus catalina Corea & Chacón, 1984, White *Morpho*, Honduras to NW Costa Rica

Morpho theseus oaxacensis Le Moult & Réal, 1962, Stub-tailed *Morpho*, SE Mexico (N Oaxaca)

Morpho theseus schweizeri (R. F. De la Maza, 1987), Stub-tailed *Morpho*, SE Mexico; vic. Los Tuxtlas, SE Veracruz

Morpho theseus justitiae Salvin & Godman, 1868, Stub-tailed *Morpho*, SE Mexico (E OAX, far SE VER, N & C CHIS) to Guatemala & Honduras

Morpho theseus heraldica Niepelt, 1927, Stub-tailed Morpho, Costa Rica & Panama

Tribe Brassolini Boisduval, 1836, Owl Butterflies,

Brassolis isthmia isthmia H. Bates, 1864, Small-spotted Owl-Butterfly, Guatemala to Colombia; Atlantic slope

Brassolis granadensis granadensis Stichel, 1902, Colombian Owl-Butterfly, NW Costa Rica to W Ecuador; Pacific slope

Caligo brasiliensis sulanus Fruhstorfer, 1904, Dark Owl-Butterfly , SE Mexico to Panama

Caligo illioneus oberon Butler, 1870, Dusky Owl-Butterfly, Costa Rica & Panama

Caligo oedipus fruhstorferi Stichel, 1904, Fruhstorfer's Owl-Butterfly , SE Mexico to Honduras

Caligo oedipus oedipus Stichel, 1903, Fruhstorfer's Owl-Butterfly , Panama to Colombia

Caligo oileus scamander (Boisduval, 1870), *Oileus* Owl-Butterfly, Guatemala to Panama

Caligo telamonius memnon (C. Felder & R. Felder, 1867), Pale Owl-Butterfly, E & SW Mexico to Nicaragua

Caligo telamonius menus Fruhstorfer, 1903, Pale Owl-Butterfly, Costa Rica to Colombia

Caligo uranus Herrich-Schäffer, 1850, Gold-edged Owl-Butterfly, E Mexico to Honduras

Caligo atreus dionysos Fruhstorfer, 1912, Banded Owl-Butterfly, [Chiapas?], Costa Rica & Panama

Catoblepia orgetorix orgetorix (Hewitson, 1870), Orange-rimmed Owl-Butterfly, Honduras & Nicaragua

Catoblepia orgetorix championi Bristow, 1981, Orange-rimmed Owl-Butterfly, Nicaragua to Panama; Atlantic slope

Catoblepia xanthicles xanthicles (Godman & Salvin, 1881), Xanthicles Owl-Butterfly, Costa Rica & Panama

Dynastor darius stygianus Butler, 1872, Daring Owl-Butterfly, S Mexico to W Ecuador

Dynastor macrosiris strix Bates, 1864, Green-eyed Owl-Butterfly, E Mexico, Guatemala, Costa Rica

Eryphanis aesacus (Herrich-Schäffer, 1850), Double-spotted Owl-Butterfly, E & S Mexico to Honduras & Nicaragua

Eryphanis bubocula (Butler, 1872), Bubocula Owl-Butterfly, Costa Rica to Colombia and Amazon Basin

Eryphanis lycomedon (C. Felder & R. Felder, 1862), Split-spotted Owl-Butterfly, Guatemala, Costa Rica, Colombia, Ecuador, Bolivia, southern Brazil

Mielkella singularis (Weymer, 1907), Singular Owl-Butterfly, S Mexico (Chiapas), Guatemala

Opoptera staudingeri mexicana (J. De la Maza & R. G. De la Maza, 1989), Staudinger's Owl-Butterfly, S Mexico (Chiapas), Guatemala

Opoptera staudingeri staudingeri (Godman & Salvin, 1894), Staudinger's Owl-Butterfly, Costa Rica & W Panama

Opsiphanes blythekitzmillerae Austin & A. Warren, 2007, Minerva's Owl-Butterfly, NW Mexico

Opsiphanes boisduvallii Doubleday, [1849], Orange Owl-Butterfly, E & W Mexico (include. BCS) to Nicaragua

Opsiphanes bogotanus alajuela Bristow, 1991, Bogota Owl-Butterfly, Costa Rica; cloud forests 700-1600m

Opsiphanes cassiae mexicana Bristow, 1991, Cassia's Owl-Butterfly, SE Mexico, Guatemala

Opsiphanes cassiae castaneus Stichel, 1904, Cassia's Owl-Butterfly, Honduras to Colombia

Opsiphanes cassina fabricii (Boisduval, 1870), Split-banded Owl-Butterfly, E & W Mexico to Honduras & El Salvador

Opsiphanes cassina chiriquensis Stichel, 1902, Split-banded Owl-Butterfly, [= *aiellae*], Nicaragua through Panama

Opsiphanes invirae relucens Fruhstorfer, 1907, Lowland Owl-Butterfly, S Mexico (Chiapas) to Honduras

Opsiphanes invirae cuspidatus Stichel, 1904, Lowland Owl-Butterfly, Nicaragua to W Panama

Opsiphanes invirae sticheli Röber, 1906, Lowland Owl-Butterfly, E Panama (CZ) to W Venezuela

Opsiphanes quiteria quirinus Godman & Salvin, 1881, Scalloped Owl-Butterfly, SE Mexico to Panama (Atlantic slope)

Opsiphanes quiteria talamancensis Bristow, 1991, Scalloped Owl-Butterfly, Costa Rica to W Panama

Opsiphanes quiteria badius Stichel, 1902, Scalloped Owl-Butterfly, Panama (CZ) to Colombia & Venezuela

Opsiphanes tamarindi tamarindi C. Felder & R. Felder, 1861, Narrow-banded Owl-Butterfly, E & W Mexico to Colombia

Opsiphanes zelotes zelus Stichel, 1908, Zelotes Owl-Butterfly, Panama



Selenophanes josephus josephus (Godman & Salvin, 1881), Josephus Owl-Butterfly, Guatemala

Selenophanes josephus excultus Stichel, 1902, Josephus Owl-Butterfly, E Panama to Colombia

Narope testacea Godman & Salvin, 1878, Brown Owl-Butterfly , S Mexico to Panama

Narope minor Casagrande, 2002, Small Owl-Butterfly , S Mexico (VER, OAX), Guatemala

Tribe Haeterini Herrich-Schäffer, 1864

Cithaerias pireta pireta (Stoll, 1780), Rusted Clearwing-Satyr, [= *menander*], Guatemala to Colombia

Dulcedo polita (Hewitson, 1869), Uncolored Clearwing-Satyr, Nicaragua to Colombia

Haetera macleannania H. Bates, 1865, Reddish Clearwing-Satyr, Costa Rica to W Ecuador

Pierella helvina incanescens Godman & Salvin, 1877, Red-washed Satyr, Guatemala to Panama

Pierella helvina ocreata Salvin & Godman, 1868, Red-washed Satyr, Panama to NW Colombia

Pierella luna rubecula Salvin & Godman, 1868, Moon Satyr, E & S Mexico to Honduras

Pierella luna pallida (Salvin & Godman, 1868), Moon Satyr, Honduras & Nicaragua

Pierella luna luna (Fabricius, 1793), Moon Satyr, Nicaragua to Colombia

Tribe Melanitini Reuter, 1896

Manataria hercyna maculata (Hopffer, 1874), White-spotted Satyr, E & W Mexico to Colombia

Tribe Satyrini Boisduval, [1833] (1820)

Lethe portlandia floralae (J. Heitzman & dos Passos, 1974), Southern Pearly-eye, MORE INFO ...

Lethe portlandia portlandia (Fabricius, 1781), Southern Pearly-eye, MORE INFO ...

Lethe portlandia missarkae (J. Heitzman & dos Passos, 1974), Southern Pearly-eye, [MORE INFO ...](#)

Lethe anthedon anthedon A. Clark, 1936, Northern Pearly-eye, [MORE INFO ...](#)

Lethe anthedon borealis A. Clark, 1936, Northern Pearly-eye, [MORE INFO ...](#)

Lethe creola (Skinner, 1897), Creole Pearly-eye, [MORE INFO ...](#)

Lethe eurydice eurydice (Linnaeus, 1763), Eyed Brown, [MORE INFO ...](#)

Lethe eurydice fumosus (Leussler, 1916), Eyed Brown, [MORE INFO ...](#)

Lethe appalachia appalachia R. Chermock, 1947, Appalachian Brown, [MORE INFO ...](#)

Lethe appalachia leeuwi Gatrell & Arbogast, 1974, Appalachian Brown, [MORE INFO ...](#)

Coenonympha haydenii (W. H. Edwards, 1872), Hayden's Ringlet, [MORE INFO ...](#)

Coenonympha tullia nipisiquit McDunnough, 1939, Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia mcisaaci dos Passos, 1935, Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia inornata W. H. Edwards, 1861, Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia benjamini McDunnough, 1928, Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia mackenziei D. Davenport, 1936, Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia yukonensis W. Holland, 1900, Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia mixturata Alphéraky, 1897, Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia kodiak W. H. Edwards, 1869, Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia insulana McDunnough, 1928, Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia yontocket Porter & Mattoon, 1989, Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia californica Westwood, [1851], Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia eryngii Hy. Edwards, 1877, Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia eunomia Dornfeld, 1967, Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia columbiana McDunnough, 1928, Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia ampelos W. H. Edwards, 1871, Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia mono Burdick, 1942, Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia elko W. H. Edwards, 1881, Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia ochracea W. H. Edwards, 1861, Common Ringlet, [MORE INFO ...](#)

Coenonympha tullia pseudobrenda Austin & R. Gray, 1998, Common Ringlet, [MORE INFO](#) ...

Coenonympha tullia furcae W. Barnes & Benjamin, 1926, Common Ringlet, [MORE INFO](#) ...

Coenonympha tullia subfusca W. Barnes & Benjamin, 1926, Common Ringlet, [MORE INFO](#) ...

Oressinoma typhla Doubleday, [1849] (Northern segregate), Typhla Satyr, Costa Rica & Panama

Cyllopsis emilia Chacón & Nishida, 2002, White Gemmed-Satyr, Costa Rica (Cerro de la Muerte, Villa Mills)

Cyllopsis clinas (Godman & Salvin, 1889), Falcate Gemmed-Satyr, SW Mexico (Guerrero)

Cyllopsis whiteorum L. Miller & J. De la Maza, 1984, Dark Gemmed-Satyr, S Mexico (N Oaxaca)

Cyllopsis hedemanni hedemanni R. Felder, 1869, Stub-tailed Gemmed-Satyr, [= vetones], E & S Mexico to W Panama

Cyllopsis hedemanni tamaulipensis L. Miller, 1974, Stub-tailed Gemmed-Satyr, NE Mexico

Cyllopsis rogersi (Godman & Salvin, 1878), Costa Rican Gemmed-Satyr, Costa Rica & Panama

Cyllopsis jacquelineae L. Miller, 1974, Jacqueline's Gemmed-Satyr , SW Mexico (Guerrero, Oaxaca)

Cyllopsis caballeroi Beutelspacher, 1984, Cowboy Gemmed-Satyr , W Mexico (Nayarit, Jalisco)

Cyllopsis philodice (Godman & Salvin, 1878), Pale-banded Gemmed-Satyr, Costa Rica & W Panama

Cyllopsis nelsoni (Godman & Salvin, 1881), Yellow-striped Gemmed-Satyr, Guatemala (Cerro de Zunil)

Cyllopsis argentella (Butler & H. Druce, 1872), Ochre-patched Gemmed-Satyr, Costa Rica & W Panama

Cyllopsis steinhauserorum L. Miller, 1974, Steinhauser's Gemmed-Satyr, W Mexico to El Salvador

Cyllopsis guatemalena L. Miller, 1974, Guatemalan Gemmed-Satyr, S Mexico (Chiapas) to Guatemala

Cyllopsis diazi L. Miller, 1974, Diaz's Gemmed-Satyr , W Mexico, [Guatemala?]

Cyllopsis schausi L. Miller, 1974, Schaus' Gemmed-Satyr, W Mexico to Guatemala

Cyllopsis pallens L. Miller, 1974, Pallid Gemmed-Satyr, W Mexico to Guatemala

Cyllopsis parvimaculata L. Miller, 1974, Weak-marked Gemmed-Satyr , S-central Mexico (TL: Tenancingo, Mexico State)

Cyllopsis suivalenoides L. Miller, 1974, Big-eyed Gemmed-Satyr, W Mexico to Nicaragua

Cyllopsis suivalens suivalens (Dyar, 1904), Dyar's Gemmed-Satyr, E Mexico (Puebla, Veracruz)

Cyllopsis suivalens escalantei L. Miller, 1974, Dyar's Gemmed-Satyr, S Mexico to Guatemala

Cyllopsis pyracmon pyracmon (Butler, [1867]) (Typical form), Nabokov's Satyr , C & S Mexico to Guatemala

Cyllopsis pyracmon pyracmon (Butler, [1867]) (form *hoffmanni*), Nabokov's Satyr , C & S Mexico to Guatemala

Cyllopsis pyracmon henshawi (W. H. Edwards, 1867) (Typical form), Nabokov's Satyr , SE AZ, SW NM, NW Mexico

Cyllopsis pyracmon henshawi (W. H. Edwards, 1867) (form *nabokovi*), Nabokov's Satyr , SE AZ, SW NM, NW Mexico

Cyllopsis pephredo (Godman, 1901), Big-spiked Gemmed-Satyr, SE Mexico to C Panama

Cyllopsis nayarit (R. Chermock, 1947), Nayarit Gemmed-Satyr, E & W Mexico

Cyllopsis windi L. Miller, 1974, Wind's Gemmed-Satyr, [Possibly a form of *C. nayarit*], E & W Mexico

Cyllopsis pseudopephredo R. Chermock, 1947, Chermock's Gemmed-Satyr , S-central Mexico (Distrito Federal)

Cyllopsis pertepida pertepida (Dyar, 1912), Canyonland Gemmed-Satyr, W to S-central Mexico

Cyllopsis pertepida intermedia L. Miller, 1974, Canyonland Gemmed-Satyr, NW Mexico (W-central Chihuahua)

Cyllopsis pertepida maniola (Nabokov, 1942), Canyonland Gemmed-Satyr, SE AZ, SW NM, far NW Mexico (N SON, CHIH)

Cyllopsis pertepida avicula (Nabokov, 1942), Canyonland Gemmed-Satyr, W TX, NE Mexico

Cyllopsis pertepida dorothea (Nabokov, 1942), Canyonland Gemmed-Satyr, SE NV, S & C UT, S & C CO, far W OK, N & C NM, N & C AZ

Cyllopsis hilaria (Godman, 1901), Two-toned Gemmed-Satyr, E Mexico to W Panama

Cyllopsis dospassosi L. Miller, 1974, dos Passos' Gemmed-Satyr , NE Mexico

Cyllopsis perplexa L. Miller, 1974, Perplexing Gemmed-Satyr, S & SW Mexico

Cyllopsis gemma gemma (Hübner, [1809]), Eastern Gemmed-Satyr, S IL to E TX, E to WV, S to FL

Cyllopsis gemma freemani (D. Stallings & Turner, 1947), Freeman's Gemmed-Satyr, S TX to Guatemala & Belize

Cyllopsis wellingi L. Miller, 1978, Belize Gemmed-Satyr, endemic to the Maya Mountains of Belize

Paramacera xicaque allyni L. Miller, 1972, Arizona Pine-Satyr, SE Arizona, far NW Mexico

Paramacera xicaque xicaque (Reakirt, [1867]), Mexican Pine-Satyr, E & central Mexico

Paramacera xicaque rubrosuffusa L. Miller, 1972, Mexican Pine-Satyr, S Oaxaca (Sierra Madre del Sur)

Paramacera chinanteca L. Miller, 1972, Oaxacan Pine-Satyr, N Oaxaca

Paramacera copiosa L. Miller, 1972, Guerrero Pine-Satyr, N Oaxaca, Guerrero

Neonympha areolatus (J. E. Smith, 1797), Georgia Satyr, MORE INFO ...

Neonympha helicta dadeensis Gatrell, 1999, Helicta Satyr, MORE INFO ...

Neonympha helicta helicta (Hübner, [1808]), Helicta Satyr, MORE INFO ...

Neonympha helicta septentrionalis W. Davis, 1924, Helicta Satyr, MORE INFO ...

Neonympha mitchellii mitchellii French, 1889, Mitchell's Satyr, MORE INFO ...

Neonympha mitchellii francisci Parshall & Kral, 1989, Mitchell's Satyr, MORE INFO ...

Megisto cymela cymela (Cramer, 1777), Little Wood-Satyr, MORE INFO ...

Megisto cymela viola (Maynard, 1891), Little Wood-Satyr, MORE INFO ...

Megisto rubricata rubricata (W. H. Edwards, 1871), Red Satyr, far NE Mexico

Megisto rubricata smithorum (Wind, 1946), Red Satyr, N-central Mexico

Megisto rubricata cheneyorum (R. Chermock, 1949), Red Satyr, NW Mexico

Megisto rubricata pseudocleophes L. Miller, 1976, Red Satyr, W Mexico

Megisto rubricata anabelae L. Miller, 1976, Red Satyr, Chiapas

"Megisto" *pellonia* (Godman, 1901), Plateau Satyr, NW Mexico

Euptychia fetna Butler, 1870, Orange-patched Satyr, W & S Mexico to Guatemala

Euptychia hilara (C. Felder & R. Felder, 1867), Tawny-cornered Satyr, S Mexico to Colombia

Euptychia rubrofasciata L. Miller & J. Miller, 1988, Red-webbed Satyr, NW Mexico

Euptychia jesia Butler, 1869, Jesia Satyr, S Mexico to Colombia

Euptychia westwoodi Butler, 1867, Westwood's Satyr, S Mexico to Colombia & Venezuela

Euptychia mollis Staudinger, 1876, Mollis Satyr, [Belize?] to Panama

- Euptychia mollina* (Hübner, 1813), *Mollina Satyr*, E Mexico to Colombia & Venezuela
- Euptychia insolata* Butler & H. Druce, 1872, *Insolata Satyr*, Costa Rica & Panama
- Hermeuptychia sosybius* (Fabricius, 1793), *Carolina Satyr*, C TX & E OK, E to FL, N to S OH & VA
- Hermeuptychia hermes* (Fabricius, 1775), *Hermes Satyr*, S TX to Argentina
- Hermeuptychia lupita* (Reakirt, [1867]), *Lupita's Satyr*, SE Mexico
- Hermeuptychia harmonia* (Butler, 1867), *Harmonia Satyr*, [= *calixta*], Costa Rica to W Ecuador
- Forsterinaria neonympha* (C. Felder & R. Felder, 1867), *White-dotted Satyr*, [= *umbracea*; = *polyphemus*; = *cyclops*], S Mexico to W Ecuador
- Cissia cleophes* (Godman & Salvin, 1889), *Cleophes Satyr*, S Mexico
- Cissia confusa* (Staudinger, 1887), *Confused Satyr*, SE Mexico to Brazil
- Cissia pseudoconfusa* Singer, DeVries & Ehrlich, 1983, *Gold-stained Satyr*, E Mexico to Panama
- Cissia joyceae* Singer, DeVries & Ehrlich, 1983, *Joyce's Satyr*, Costa Rica
- Cissia palladia* (Butler, 1867), *Butler's Satyr*, S Mexico to Brazil, Trinidad
- Cissia labe* (Butler, 1870), *Labe Satyr*, S Mexico to W Ecuador
- Cissia terrestris* (Butler, 1867), *Cryptic Satyr*, E Mexico to Brazil
- Cissia pompilia* (C. Felder & R. Felder, 1867), *Plain Satyr*, [= *usitata*], E & S Mexico to Colombia
- Cissia similis* (Butler, 1867), *One-pupil Satyr*, W Mexico to Colombia
- Cissia themis* (Butler, 1867), *Two-pupil Satyr*, [= *undina*], W & SE Mexico to Nicaragua
- Magneuptychia alcinoe* (C. Felder & R. Felder, 1867), *Simple Satyr*, S Mexico to Bolivia
- Magneuptychia libye* (Linnaeus, 1767), *Blue-gray Satyr*, SE Mexico to Amazon Basin
- Magneuptychia tiessa* (Hewitson, 1869), *Tiessa Satyr*, Nicaragua to W Ecuador
- Magneuptychia agnata* (Schaus, 1913), *Agnata Satyr*, Costa Rica (Atlantic slope)
- Magneuptychia gomezi* (Singer, DeVries & Ehrlich, 1983), *Gomez' Satyr*, Costa Rica
- Magneuptychia drymo* (Schaus, 1913), *Drymo Satyr*, Costa Rica (Atlantic slope)
- Megeuptychia antonoe* (Cramer, 1775), *Cramer's Satyr*, S Mexico to Amazon Basin
- Splendeuptychia kendalli* L. Miller, 1976, *Kendall's Satyr*, NE Mexico
- Splendeuptychia salvini* (Butler, 1867), *Salvin's Satyr*, Panama

- Cepheptychia glaucina (H. Bates, 1864), Dirty-blue Satyr, SE Mexico, Guatemala
- Chloreptychia arnaca (Fabricius, 1776), Blue-smudged Satyr, Guatemala to Colombia
- Chloreptychia sericeella (H. Bates, 1864), Blue-topped Satyr, S Mexico, Guatemala
- Pareptychia metaleuca (Boisduval, 1870), White-banded Satyr, E & S Mexico to Panama
- Pareptychia ocirrhoe (Fabricius, 1776) (Northern segregate), White Satyr, [= hesione], E & S Mexico to Ecuador
- Harjesia oreba (Butler, 1870), Oreba Satyr, [= gulnare], Costa Rica to Ecuador
- Pindis squamistriga R. Felder, 1869, Variable Satyr, E & W Mexico to Guatemala
- Satyrotaygetis satyrina (H. Bates, 1865), Wide-bordered Satyr, [= gigas (Butler)], S Mexico to Panama
- Pseudodebis zimri (Butler, 1869), Butler's Satyr, SE Mexico to Colombia
- Taygetina banghaasi (Weymer, 1910), Bang-Haas' Satyr, Costa Rica & Bolivia
- Taygetis inconspicua Draudt, 1931, Inconspicuous Satyr, SE Mexico, Guatemala
- Taygetis kerea Butler, 1869, Kerea Satyr, E & W Mexico to Paraguay & Argentina
- Taygetis mermeria griseomarginata L. Miller, 1978, Great Satyr, W Mexico
- Taygetis mermeria excavata Butler, 1868, Great Satyr, E Mexico to Panama
- Taygetis sosis Hopffer, 1874, Sosis Satyr, [= xenana godmani], [S Mexico] to Brazil & Peru
- Taygetis thamyra (Cramer, 1779), Thamyra Satyr, E Mexico to S Brazil
- Taygetis uncinata Weymer, 1907, Hook-lined Satyr, W & S Mexico, Guatemala
- Taygetis leuctra Butler, 1870, Leuctra Satyr, Chiapas to Panama (at least)
- Taygetis uzza Butler, 1869, Uzza Satyr, [= salvini], [S Mexico?], Guatemala to Colombia
- Taygetis laura C. Felder & R. Felder, 1867, Laura's Satyr, Panama to Bolivia
- Taygetis sylvia H. Bates, 1866, Sylvia's Satyr, Panama to Bolivia
- Taygetis virgilia (Cramer, 1776), Stub-tailed Satyr, E & W Mexico to Brazil
- Taygetis rufomarginata Staudinger, 1888, Rufous-margined Satyr, [S Mexico?], Honduras, Costa Rica & Panama
- Taygetis weymeri Draudt, 1912, Mexican Satyr, W Mexico
- Taygetomorpha celia (Cramer, 1779), Celia Satyr, Nicaragua to Brazil & Bolivia
- Parataygetis lineata (Godman & Salvin, 1880), White-lined Satyr, Costa Rica to Colombia
- Posttaygetis penelea (Cramer, 1777), Yellow-spiked Satyr, Costa Rica to Brazil

- Ypthimoides renata* (Stoll, 1780), *Renata Satyr*, S Mexico to W Ecuador
- Erebia vidleri* Elwes, 1898, Vidler's Alpine, NW WA, BC
- Erebia rossii ornata* Leussler, 1935, Ross's Alpine, vic. Churchill, Manitoba
- Erebia rossii rossii* (J. Curtis, 1835), Ross's Alpine, most of range
- Erebia rossii gabrieli* dos Passos, 1949, Ross's Alpine, vic. Denali National Park, AK
- Erebia rossii kuskoquima* W. Holland, 1931, Ross's Alpine, coastal SW AK (Yukon & Kuskoquim River drainages)
- Erebia disa steckeri* W. Holland, 1930, Disa Alpine, N AK to W YK; tundra and forest habitats
- Erebia disa subarctica* McDunnough, 1937, Disa Alpine, Richardson Mts. & MacKenzie Delta E to Nunavut
- Erebia mancinus* E. Doubleday, [1849], Taiga Alpine, taiga; Labrador to Alaska; S in Mts. To Banff, ALTA
- Erebia magdalena magdalena* Strecker, 1880, Magdalena Alpine, S Rocky Mountains; S-central MT, NW WY, N UT, CO, N-central NM
- Erebia magdalena hilchie* Kemal & Koçak, 2007, Magdalena Alpine, N Rocky Mountains; W-central ALTA; E-central BC
- Erebia mackinleyensis* Gunder, 1932, Mt. McKinley Alpine, N BC, W YK, E, C & N AK
- Erebia fasciata fasciata* Butler, 1868, Banded Alpine, Nunavut to C AK
- Erebia fasciata avinoffi* W. Holland, 1930, Banded Alpine, NW AK & E Russia
- Erebia epipsodea brucei* Elwes, 1889, Common Alpine, MORE INFO ...
- Erebia epipsodea epipsodea* Butler, 1868, Common Alpine, MORE INFO ...
- Erebia epipsodea sineocellata* Skinner, 1889, Common Alpine, MORE INFO ...
- Erebia epipsodea remingtoni* P. Ehrlich, 1952, Common Alpine, MORE INFO ...
- Erebia discoidalis discoidalis* (W. Kirby, 1837), Red-disked Alpine, MORE INFO ...
- Erebia pawloskii alaskensis* W. Holland, 1900, Theano Alpine, AK, YK, N BC
- Erebia pawloskii canadensis* B. Warren, 1931, Theano Alpine, vic. Churchill, Manitoba
- Erebia pawloskii ethela* W. H. Edwards, 1891, Theano Alpine, MORE INFO ...
- Erebia pawloskii demmia* B. Warren, 1936, Theano Alpine, MORE INFO ...
- Erebia youngi herscheli* Leussler, 1935, Young's Alpine, coastal N AK & N YK
- Erebia youngi youngi* W. Holland, 1900, Young's Alpine, C AK to W YK
- Erebia youngi rileyi* dos Passos, 1947, Young's Alpine, vic. Denali National Park, AK

Erebia lafontainei Troubridge & Philip, 1983, Lafontaine's Alpine, MORE INFO ...

Erebia occulta occulta Roos & Kimmich, 1983, Eskimo Alpine, MORE INFO ...

Erebia callias callias W. H. Edwards, 1871, Colorado Alpine, MORE INFO ...

Neominois ridingsii minimus Austin, 1986, Ridings' Satyr, S ALTA E to SW Manitoba, N MT, W ND

Neominois ridingsii wyomingo (Scott, 1998), Ridings' Satyr, N CO, WY, MT, UT; flies in late summer

Neominois ridingsii ridingsii (W. H. Edwards, 1865), Ridings' Satyr, C MT to N MN, W NE

Neominois ridingsii neomexicanus Austin, 1986, Ridings' Satyr, S-central AZ & NM

Neominois ridingsii curicata M. Fisher, Scott & Garhart, 2008, Ridings' Satyr, upper Gunnison River Valley, Gunnison Co., CO

Neominois ridingsii coloalbiterra Garhart & M. Fisher, 2008, Ridings' Satyr, Roan Cliffs, Garfield Co., CO

Neominois ridingsii stretchii (W. H. Edwards, 1870), Ridings' Satyr, W WY to W CO, W to SE OR, NV, N AZ

Neominois ridingsii pallidus Austin, 1986, Ridings' Satyr, Sierra Nevada (CA-NV), N to C Oregon

Neominois carmen A. Warren, Austin, Llorente, Luis & Vargas, 2008, Joboni Satyr, northern COAH to southern NL

Oeneis philipi Troubridge, 1988, Philip's Arctic, C AK, YK, N BC

Oeneis polixenes katahdin (Newcomb, 1901), Polixenes Arctic, Mt. Katahdin, Maine

Oeneis polixenes polixenes (Fabricius, 1775), Polixenes Arctic, E Canadian arctic; Quebec to Labrador

Oeneis polixenes subhyalina (J. Curtis, 1835), Polixenes Arctic, arctic islands and coasts; Nunavut & NWT

Oeneis polixenes beringianus Kurentsov, 1970, Polixenes Arctic, Churchill, Manitoba, W to AK, S to S ALTA; E Russia

Oeneis polixenes woodi Troubridge & Parshall, 1988, Polixenes Arctic, arctic coast of AK & YK

Oeneis polixenes yukonensis Gibson, 1920, Polixenes Arctic, SW YK

Oeneis polixenes brucei (W. H. Edwards, 1891), Polixenes Arctic, S Rocky Mountains (NW WY, C & N CO, N NM)

Oeneis jutta balder (Guérin-Méneville, [1832]), Jutta Arctic, SE Canada W to SE Manitoba



Oeneis jutta terraenovae dos Passos, 1935, Jutta Arctic, Newfoundland

Oeneis jutta ascerta Masters & Sorenson, 1968, Jutta Arctic, N WI, MN, MI, adjacent parts of Ontario

Oeneis jutta ridingiana F. Chermock & R. Chermock, 1940, Jutta Arctic, SW Manitoba & SASK

Oeneis jutta harperi dos Passos, [1977], Jutta Arctic, N Manitoba & E NWT

Oeneis jutta leussleri Bryant, 1935, Jutta Arctic, W NWT

Oeneis jutta alaskensis W. Holland, 1900, Jutta Arctic, AK, E to YK & N BC

Oeneis jutta chermocki Wyatt, 1965, Jutta Arctic, W ALTA, S BC

Oeneis jutta reducta McDunnough, 1929, Jutta Arctic, S Rocky Mountains (far E ID, W MT, WY, NE UT, NW CO)

Oeneis melissa semidea (Say, 1828), Melissa Arctic, White Mountains, New Hampshire

Oeneis melissa melissa (Fabricius, 1775), Melissa Arctic, coastal Newfoundland & Labrador

Oeneis melissa semplei W. Holland, 1930, Melissa Arctic, interior Labrador, N Quebec, margins of Hudson Bay

Oeneis melissa assimilis Butler, 1868, Melissa Arctic, Nunavut & NWT

Oeneis melissa gibsoni W. Holland, 1930, Melissa Arctic, W & N YK, AK

Oeneis melissa atlinensis C. Guppy & J. Shepard, 2001, Melissa Arctic, NW BC, SW YK

Oeneis melissa beanii Elwes, 1893, Melissa Arctic, S & C BC, SW & W-central ALTA, to N-central WA, MT, WY & NE UT

Oeneis melissa lucilla W. Barnes & McDunnough, 1918, Melissa Arctic, S Rocky Mountains (CO, N NM)

Oeneis alpina excubitor Troubridge, Philip, Scott & J. Shepard, 1982, Sentinel Arctic, far NW NWT, YK, N AK

Oeneis bore taygete Geyer, [1830], White-veined Arctic, Labrador & N Quebec

Oeneis bore gaspeensis dos Passos, 1949, White-veined Arctic, montane Gaspé Peninsula, Quebec

Oeneis bore hanburyi Watkins, 1928, White-veined Arctic, N-central Canadian arctic, from NE Manitoba to YK & E-central AK

Oeneis bore mckinleyensis dos Passos, 1949, White-veined Arctic, vic. Denali National Park, AK

Oeneis bore fordi dos Passos, 1949, White-veined Arctic, W AK, Russian Far East

Oeneis bore edwardsi dos Passos, 1949, White-veined Arctic, S Rocky Mountains (S-central MT, NW WY, NE UT, SW CO)

Oeneis chryxus strigulosa McDunnough, 1934, Chryxus Arctic, N WI, N MI, S & E Ontario, SW Quebec

Oeneis chryxus calais (Scudder, 1865), Chryxus Arctic, W Ontario, W to SASK

Oeneis chryxus caryi Dyar, 1904, Chryxus Arctic, boreal ALTA, BC, NWT, YK, far E AK

Oeneis chryxus altacordillera Scott, 2006, Chryxus Arctic, high Canadian Zone in Rocky Mts. of Colorado

Oeneis chryxus chryxus (E. Doubleday, [1849]), Chryxus Arctic, Rocky Mountains from ALTA to NM

Oeneis chryxus socorro R. Holland, 2010, Chryxus Arctic,

Oeneis chryxus valerata Burdick, 1958, Chryxus Arctic, Olympic Mts., NW WA & Vancouver I.

Oeneis chryxus stanislaus Hovanitz, 1937, Chryxus Arctic, Sierra Nevada, CA-NV

Oeneis chryxus ivallda (Mead, 1878), Chryxus Arctic, Sierra Nevada, CA

Oeneis alberta alberta Elwes, 1893, Alberta Arctic, MORE INFO ...

Oeneis alberta ojibwe Scott & Kondla, 2006, Alberta Arctic, MORE INFO ...

Oeneis alberta osleri Skinner, 1911, Alberta Arctic, MORE INFO ...

Oeneis alberta capulinensis F. Brown, 1970, Alberta Arctic, MORE INFO ...

Oeneis alberta daura (Strecker, 1874), Alberta Arctic, MORE INFO ...

Oeneis nevadensis gigas Butler, 1868, Great Arctic, MORE INFO ...

Oeneis nevadensis nevadensis (C. Felder & R. Felder, 1867), Great Arctic, MORE INFO ...

Oeneis nevadensis iduna (W. H. Edwards, 1874), Great Arctic, MORE INFO ...

Oeneis macounii (W. H. Edwards, 1885), Macoun's Arctic, MORE INFO ...

Oeneis uhleri (Reakirt, 1866) (SW Utah), Uhler's Arctic, Tushar Mts. of Beaver-Piute Cos., Utah

Oeneis uhleri reinthali F. Brown, 1953, Uhler's Arctic, MORE INFO ...

Oeneis uhleri uhleri (Reakirt, 1866), Uhler's Arctic, MORE INFO ...

Oeneis uhleri varuna (W. H. Edwards, 1882), Uhler's Arctic, MORE INFO ...

Oeneis uhleri nahanni Dyar, 1904, Uhler's Arctic, Mackenzie Mountains, NWT

Oeneis uhleri cairnesi Gibson, 1920, Uhler's Arctic, far NW NWT, YK, NE AK

Cercyonis pegala pegala (Fabricius, 1775), Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala alope (Fabricius, 1793), Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala texana (W. H. Edwards, 1880), Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala (Fabricius, 1775) (Coahuila, low-elevation), Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala olympus (W. H. Edwards, 1880), Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala nephele (W. Kirby, 1837), Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala ino G. Hall, 1924, Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala incana (W. H. Edwards, 1880), Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala boopis (Behr, 1864), Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala australosierra J. Emmel, T. Emmel & K. Davenport, 2008, Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala ariane (Boisduval, 1852), Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala (Fabricius, 1775) (Little Deschutes River segregate), Common Wood-Nymph , Little Deschutes River & upper Deschutes R., Deschutes Co., OR

Cercyonis pegala (Fabricius, 1775) (Silver Lake segregate), Common Wood-Nymph , vic. Silver Lake, Lake Co., OR

Cercyonis pegala (Fabricius, 1775) (Crump Lake segregate), Common Wood-Nymph , vic. Crump Lake, Lake Co., OR

Cercyonis pegala (Fabricius, 1775) (Klamath Basin segregate), Common Wood-Nymph , Klamath Basin, Klamath Co. OR

Cercyonis pegala (Fabricius, 1775) (Ravendale segregate), Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala gabbii (W. H. Edwards, 1870), Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala carsonensis Austin, 1992, Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala walkerensis Austin, 1992, Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala wheeleri (W. H. Edwards, 1873), Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala paucilineatus Austin, 1992, Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala pluvialis Austin, 1992, Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala stephensi (W. G. Wright, 1905), Common Wood-Nymph , [MORE INFO ...](#)

Cercyonis pegala paludum Austin, 1992, Common Wood-Nymph , [MORE INFO ...](#)

- Cercyonis pegala utahensis* Austin, 1992, Common Wood-Nymph , [MORE INFO ...](#)
- Cercyonis meadii meadii* (W. H. Edwards, 1872), Mead's Wood-Nymph , [MORE INFO ...](#)
- Cercyonis meadii alamosa* T. Emmel & J. Emmel, 1969, Mead's Wood-Nymph , [MORE INFO ...](#)
- Cercyonis meadii melania* (Wind, 1946), Mead's Wood-Nymph , Requires confirmation in NE Chihuahua
- Cercyonis meadii damei* W. Barnes & Benjamin, 1926, Mead's Wood-Nymph , (= mexicana), Sonora, W Chihuahua, etc.
- Cercyonis sthenele masoni* Cross, 1937, Great Basin Wood-Nymph, [MORE INFO ...](#)
- Cercyonis sthenele paulus* (W. H. Edwards, 1879), Great Basin Wood-Nymph, [MORE INFO ...](#)
- Cercyonis sthenele sineocellata* Austin & J. Emmel, 1998, Great Basin Wood-Nymph, [MORE INFO ...](#)
- Cercyonis sthenele silvestris* (W. H. Edwards, 1861), Great Basin Wood-Nymph, [MORE INFO ...](#)
- Cercyonis sthenele* (Boisduval, 1852) (W OR Cascades), Great Basin Wood-Nymph, [MORE INFO ...](#)
- Cercyonis sthenele behrii* F. Grinnell, 1905, Great Basin Wood-Nymph, [MORE INFO ...](#)
- Cercyonis sthenele sthenele* (Boisduval, 1852), Great Basin Wood-Nymph, [MORE INFO ...](#)
- Cercyonis sthenele hypoleuca* Hawks & J. Emmel, 1998, Great Basin Wood-Nymph, [MORE INFO ...](#)
- Cercyonis oetus charon* (W. H. Edwards, 1872), Small Wood-Nymph, [MORE INFO ...](#)
- Cercyonis oetus phocus* (W. H. Edwards, 1874), Small Wood-Nymph, [MORE INFO ...](#)
- Cercyonis oetus oetus* (Boisduval, 1869), Small Wood-Nymph, [MORE INFO ...](#)
- Cercyonis oetus pallescens* T. Emmel & J. Emmel, 1971, Small Wood-Nymph, [MORE INFO ...](#)
- Cercyonis oetus alkalorum* Austin, 1998, Small Wood-Nymph, [MORE INFO ...](#)
- Gyrocheilus patrobas patrobas* (Hewitson, 1862), Red-bordered Satyr, C & S Mexico
- Gyrocheilus patrobas tritonia* (W. H. Edwards, 1874), Red-bordered Satyr, C & SE AZ, SW NM, far W TX, NW Mexico
- Gyrocheilus* sp. undescribed, Rust-bordered Satyr, NE Mexico
- Drucina championi* Godman & Salvin, 1881 (Typical segregate), Blue-spotted Satyr, S Mexico (Chiapas) & Guatemala

- Drucina leonata Butler, 1872, Leonata Satyr, Costa Rica & Panama
- Eretris hulda (Butler & H. Druce, 1872), Hulda Satyr, Costa Rica & Panama
- Eretris maria (Schaus, 1920), Maria's Satyr, S Mexico & Guatemala
- Eretris suzannae DeVries, 1980, Suzanne's Satyr, Costa Rica & W Panama
- Lymanopoda cinna Godman & Salvin, 1889, Blue-stained Satyr, S Mexico (Chiapas) & Guatemala
- Lymanopoda euopis Godman & Salvin, 1878, Costa Rican Satyr, Costa Rica
- Arhuaco dryadina (Schaus, 1913), Dryadina Satyr, Costa Rica & W Panama
- Oxeoschistus puerta submaculatus Butler & H. Druce, 1874, Puerta Satyr, Costa Rica & Panama
- Oxeoschistus hilara hilara (H. Bates, 1865), Dot-banded Satyr, S Mexico (Chiapas) & Guatemala
- Oxeoschistus hilara euriphyle Butler, 1872, Dot-banded Satyr, Costa Rica & Panama
- Oxeoschistus crothonides Grose-Smith, 1896, Rust-patched Satyr, Costa Rica & Panama
- Oxeoschistus cothon Salvin, 1871, Lemon-patched Satyr, Costa Rica & W Panama
- Oxeoschistus tauropolis (Westwood, [1850]) (W Mexican segregate), Yellow-patched Satyr, SW Mexico
- Oxeoschistus tauropolis (Westwood, [1850]) (Typical segregate), Yellow-patched Satyr, E Mexico to Panama
- Pseudomaniola gigas (Godman & Salvin, 1877), Orange-bordered Satyr, S Mexico & Guatemala
- Pseudomaniola phaselis rogersi (Godman & Salvin, 1878), Fire-spotted Satyr, Costa Rica & W Panama
- Pronophila timanthes Salvin, 1871, Timanthes Satyr, Costa Rica to W Ecuador
- Pedaliodes circumducta Thieme, 1905, Circumducta Satyr, SE Mexico, Guatemala
- Pedaliodes dejecta (H. Bates, 1865) (SW Mexican segregate), Dejected Satyr, SW Mexico
- Pedaliodes dejecta (H. Bates, 1865) (Typical segregate), Dejected Satyr, SE Mexico to Colombia
- Pedaliodes manis (C. Felder & R. Felder, 1867), Manis Satyr, Costa Rica to Venezuela
- Pedaliodes cremera Godman & Salvin, 1878, Cremera Satyr, Costa Rica & Panama
- Pedaliodes napaea (H. Bates, 1865), Napaea Satyr, S Mexico & Guatemala
- Pedaliodes triaria Godman & Salvin, 1878, Ochre-banded Satyr, Costa Rica & Panama

Praepronophila petronius kerrianna (L. Miller, 1986), Toothed Satyr, Costa Rica & Panama

Praepronophila perperna (Hewitson, 1862) (Panamanian segregate), Rusty-eyed Satyr, Costa Rica & Panama

Amphidecta pignerator pignerator Butler, 1867, Stub-tailed Satyr, SE Mexico (CHIS) to Amazon Basin

Amphidecta calliomma (C. Felder & R. Felder, 1862), Calliomma Satyr, Colombia, Panama

Calisto zangis (Fabricius, 1775), Jamaican Calisto, Jamaica

Calisto pulchella pulchella Lathy, 1899, Sugar cane Calisto, Hispaniola (widespread, except in Cordillera Central; see below)

Calisto pulchella darlingtoni Clench, 1943, Sugar cane Calisto, Cordillera Central, W Dominican Republic; montane

Calisto nubila Lathy, 1899, Puerto Rican Calisto, Puerto Rico

Calisto anegadensis D. Smith, L. Miller & McKenzie, 1991, Anegada Calisto, Anegada (British Virgin Islands)

Calisto archebates (Ménétriés, 1832), Yellow-banded Calisto, Massif de la Selle (Haiti-D.R.), W Sierra de Baoruco, Dom. Rep.

Calisto chrysaoros M. Bates, 1935, White-banded Calisto, Massif de la Hotte, Haiti; Sierra de Baoruco, Dom. Rep.

Calisto galii galii Schwartz, 1983, Gali's Calisto, Cordillera Central, W Dominican Republic

Calisto galii choneupsilon Schwartz, 1985, Gali's Calisto, Sierra de Neiba, Dominican Republic

Calisto wetherbee Schwartz & González, 1988, Wetherbee's Calisto, Cordillera Central, W Dominican Republic

Calisto loxias M. Bates, 1935, Dark Calisto, Massif de la Hotte, Haiti; nr. Las Abejas, SW Dom. Republic

Calisto arcas M. Bates, 1939, Tawny-washed Calisto, Cordillera Central, Pico Duarte massif, Dominican Republic

Calisto confusa Lathy, 1899, Confused Calisto, Hispaniola (widespread)

Calisto debarriera Clench, 1943, Debarriera Calisto, Hispaniola

Calisto gonzalezi Schwartz, 1988, Gonzalez's Calisto, Sierra de Yamasa, N of Santo Domingo, Dominican Republic

Calisto obscura Michener, 1943, Obscure Calisto, Hispaniola (widespread)

Calisto lyceius M. Bates, 1935, Saona Calisto, Isla Saona & Isla Catalina, Dominican Republic

Calisto crypta Gali, 1985, Cryptic Calisto, vic. Monte Cristi, Dominican Republic

Calisto franciscoi Gali, 1985, Francisco's Calisto, SW Dom. Republic (Valle de Neiba & Barahona Pen. to Azua)

Calisto hendersoni Gali, 1985, Henderson's Calisto, nr. El Limon, Independencia, Dominican Republic

Calisto schwartzi Gali, 1985, Schwartz's Calisto, nr. Aceitillar, Sierra de Baoruco, Pedernales, SW Dom. Republic

Calisto raburni Gali, 1985, Raburn's Calisto, NE of El Aguacate, Independencia, Dominican Republic

Calisto tasajera González, Schwartz & Wetherbee, 1991, Tasajera Calisto, Cordillera Central, Dominican Republic

Calisto tragius M. Bates, 1935, Tragic Calisto, Massif de la Selle (Haiti); W Sierra de Baoruco, Dom. Republic

Calisto clydoniata Schwartz & Gali, 1984, Yellow-stained Calisto, Sierra de Neiba, Dominican Republic

Calisto clenchi Schwartz & Gali, 1984, Clench's Calisto, Massif de la Selle (Haiti-Dominican Republic)

Calisto batesi Michener, 1943, Bates' Calisto, Hispaniola (most common in N Dominican Republic)

Calisto hysius hysius (Godart, [1824]), Godart's Calisto, Hispaniola (S palaeoisland)

Calisto hysius aleucosticha Correa & Schwartz, 1986, Correa's Calisto, N Cordillera Central, Dominican Republic

Calisto neiba Schwartz & Gali, 1984, Neiba Calisto, Sierra de Neiba, Dominican Republic

Calisto montana Clench, 1943, Mt. Basil Calisto, Morne Basile, Montagnes Noires, N Haiti

Calisto herophile herophile Hübner, [1823], Cuban Calisto, much of Cuba and Isla de Juventud; lowlands

Calisto herophile parsonsi Clench, 1943, Cuban Calisto, Cuba: Sierra de Escambray, 500-1000m

Calisto herophile bruneri Michener, 1949, Cuban Calisto, far E Cuba

Calisto herophile apollinis M. Bates, 1934, Cuban Calisto, Bahamas

Calisto sibylla sibylla M. Bates, 1934, Woodland Calisto, Bahamas: New Providence, N & S Andros

Calisto sibylla smintheus M. Bates, 1935, Woodland Calisto, [= *biocellatus*, *israel*, *brocheri*], widespread in Cuba; 1000-2500m

- Calisto sibylla muripetens M. Bates, 1939, Woodland Calisto, E Cuba; ca. 1000m
- Calisto sibylla bradleyi Munroe, 1951, Woodland Calisto, W Cuba; 500m
- Calisto sibylla delos M. Bates, 1935, Woodland Calisto, Sierra Maestra, E Cuba; 1500m
- Calisto pauli K. Johnson & Hedges, 1998, Paul's Calisto, Massif de la Hotte, Haiti
- Calisto woodsi K. Johnson & Hedges, 1998, Woods' Calisto, Massif de la Hotte, Haiti
- Calisto thomasi K. Johnson & Hedges, 1998, Thomas' Calisto, Massif de la Hotte, Haiti
- Calisto eleleus M. Bates, 1935, Eleleus Calisto, Hispaniola; most abundant in Sierra de Baoruco
- Calisto grannus grannus M. Bates, 1939, Grannus Calisto, Cordillera Central, Dominican Republic, 1160-2300m
- Calisto grannus dilemma González, 1987, Grannus Calisto, nr. Constanza, La Vega, Dominican Republic
- Calisto grannus amazona González, 1987, Amazona Calisto, vic. Pico Duarte, Cordillera Central, Dom. Rep., 1200-1900m
- Calisto grannus dystacta González, 1987, Leonor Calisto, Loma Leonor, Santiago Rodriguez, Dominican Republic
- Calisto phoinix González, 1987, Phoinix Calisto, La Palma, E Cordillera Central, La Vega, Dominican Republic
- Calisto micrommata Schwartz & Gali, 1984, Micrommata Calisto, S range Sierra de Neiba, SW Dominican Republic, 1600-1900m
- Calisto sommeri Schwartz & Gali, 1984, Sommer's Calisto, E Massif de la Selle, Haiti, to W Sierra de Baoruco, Dom. Rep.
- Calisto micheneri Clench, 1944, Michener's Calisto, Cordillera Central, Dominican Republic
- Calisto ainigma K. Johnson, Quinter & Matusik, 1987, Enigmatic Calisto, Cordillera Central, Dominican Republic
- Calisto neochma Schwartz, 1991, El Rubio Calisto, Monte El Rubio, Santiago, Dominican Republic

Family HESPERIIDAE Latreille, 1809, SKIPPERS,

Subfamily Eudaminae Mabille, 1877, Spreadwing Skippers,

Phocides polybius lilea (Reakirt, [1867]), Guava Skipper, S Texas to Costa Rica

- Phocides polybius polybius* (Fabricius, 1793), Guava Skipper, Panama, Colombia, Venezuela, Guianas, Trinidad
- Phocides distans licinus* (Möschler, 1879), Distans Skipper, Honduras, Costa Rica, Panama
- Phocides metrodorus metrodorus* Bell, 1932, Metrodorus Skipper, Panama to Bolivia and Brazil
- Phocides metrodorus nigrescens* Bell, 1938, Nigrescens Skipper, Costa Rica, Colombia, Venezuela, Ecuador, Peru; species?
- Phocides thermus thermus* (Mabille, 1883), Thermus Skipper, SE Mexico to Venezuela and Ecuador
- Phocides belus* Godman & Salvin, 1890, Belus Skipper, S Texas (one-time stray) to Costa Rica
- Phocides pigmalion pigmalion* (Cramer, 1779), Pigmalion Skipper, TL: Surinam
- Phocides pigmalion okeechobee* (Worthington, 1881), Mangrove Skipper, S Florida; mangroves
- Phocides pigmalion batabanoides* (Holland, 1903), Mangrove Skipper, most Bahamian Islands
- Phocides pigmalion batabano* (Lucas, 1857), Mangrove Skipper, Cuba, I. de Juventud, Andros, Little Cayman
- Phocides pigmalion bicolora* (Boddaert, 1783), 'Hispaniolan' Mangrove Skipper, Hispaniola
- Phocides urania urania* (Westwood, 1852), Urania Skipper, Mexico, Guatemala; usually in montane forest
- Phocides urania vida* (Butler, 1872), Vida Skipper, Costa Rica
- Phocides lincea perkinsi* (Kaye, 1931), Perkins' Skipper, Jamaica
- Tarsoctenus corytus gaudialis* (Hewitson, 1876), Gaudy Skipper, Nicaragua to Colombia
- Phanus vitreus* (Stoll, 1781), Widespread Phanus, Oaxaca and Chiapas to southern Brazil
- Phanus ecitonorum* Austin, 1993, Army-ant Phanus, Costa Rica to southern Brazil
- Phanus confusis* Austin, 1993, Confusing Phanus, eastern Mexico to El Salvador
- Phanus albiapicalis* Austin, 1993, White-tipped Phanus, E & W Mexico to Panama, W Ecuador and Peru
- Phanus rilma* Evans, 1952, West-Mexican Phanus, Pacific coast, Nayarit to Guatemala
- Phanus grandis* Austin, 1993, Grand Phanus, Nicaragua, Costa Rica, Panama, Colombia, Venezuela
- Phanus obscurior obscurior* Kaye, 1925, Dark Phanus, SE Mexico to Colombia and Trinidad

- Phanus marshallii* (Kirby, 1880), Common *Phanus*, E & W Mexico to Bolivia
- Udranomia orcinus* (C. Felder & R. Felder, 1867), *Orcinus* Skipper, SE Mexico to Bolivia
- Udranomia kikkawai* (Weeks, 1906), Nervous Skipper, E & W Mexico to Brazil
- Udranomia eurus* (Mabille & Boulet, 1919), *Eurus* Skipper, Costa Rica to Venezuela & Amazon basin
- Drephalys helixus* (Hewitson, 1877), *Helixus* Skipper, Panama
- Drephalys kidonoi* Burns, 1999, Kidono's Skipper, W Costa Rica
- Drephalys phoenicoides* (Mabille & Boulet, 1919), Curious Skipper, Costa Rica to Guianas and NE Brazil
- Drephalys dumeril* (Latreille, [1824]), *Dumeril* Skipper, Mexico to Ecuador and Brazil
- Drephalys oria* Evans, 1952, *Oria* Skipper, Mexico to Honduras
- Drephalys oriander* (Hewitson, 1867), *Oriander* Skipper, Mexico, Costa Rica to Guianas and N Brazil
- Drephalys alcmon* (Cramer, 1779), *Alcmon* Skipper, Guatemala to Guianas and Brazil
- Augiades criniscus* (Cramer, 1780), *Criniscus* Skipper, Costa Rica to Bolivia and Brazil
- Augiades epimethea bicolor* (Mabille & Boulet, 1919), *Epimethea* Skipper, Costa Rica to Bolivia, Guianas and N Brazil
- Hyalothyrus leucomelas* (Geyer, 1832), *Leucomelas* Skipper, Panama to Brazil and Peru
- Hyalothyrus neleus pemphigargyra* (Mabille, 1888), Dimorphic Skipper, SE Mexico to Colombia and Venezuela
- Phareas coeleste* Westwood, 1852, Magnificent Skipper, Costa Rica to Bolivia and Brazil
- Entheus matho matho* Godman & Salvin, 1879, Giant *Entheus*, SE Mexico to Costa Rica
- Entheus matho aequatorius* Mabille & Boulet, 1919, Equatorial *Entheus*, Costa Rica to Ecuador
- Entheus matho dius* Mabille, 1898, *Dius* *Entheus*, Panama Guianas, Peru, and Bolivia
- Entheus crux* Steinhauser, 1989, Mexican *Entheus*, SE Mexico to Nicaragua
- Proteides mercurius mercurius* (Fabricius, 1787), Mercurial Skipper, continental, S Texas to Argentina, SE Arizona as rare stray
- Proteides mercurius sanantonio* (Lucas, 1857), Mercurial Skipper, Cuba, [one-time stray to Florida]
- Proteides mercurius sanchesii* E. Bell & W. Comstock, 1948, Mercurial Skipper, Hispaniola
- Proteides mercurius jamaicensis* Skinner, 1920, Mercurial Skipper, Jamaica

Proteides mercurius pedro (Dewitz, 1877), Mercurial Skipper, Puerto Rico

Proteides mercurius vincenti E. Bell & W. Comstock, 1948, Mercurial Skipper, St. Vincent

Proteides mercurius angasi Godman & Salvin, 1884, Mercurial Skipper, Dominica, St. Lucia, Tobago

Proteides mercurius grenadensis Enrico & Pinchon, 1969, Mercurial Skipper, Grenada

Proteides maysi (Lucas, 1857), Mays' Skipper, Cuba and Isla de Juventud

Epargyreus zestos zestos (Geyer, 1832), Zestos Skipper, Florida, Bahamas, Puerto Rico, Virgin Islands to St. Vincent

Epargyreus zestos inaguarum Clench & Bjorndal, 1980, Zestos Skipper, Great Inagua, Crooked I., Turks and Caicos Islands

Epargyreus clarus californicus MacNeill, 1975, 'California' Silver-spotted Skipper, BC to Baja California Norte; Sierra Nevada-Cascades, westward

Epargyreus clarus (Cramer, 1775) (Rocky Mountain segregate), 'Rocky Mountain' Silver-spotted Skipper, NE OR, E WA, ID, MT, WY, C & N UT, CO, N NM, Black Hills

Epargyreus clarus clarus (Cramer, 1775), Silver-spotted Skipper, E USA and Canada to far NE Mexico (hypothetical)

Epargyreus clarus profugus Austin, 1998, 'Nevada' Silver-spotted Skipper, S NV, N AZ, possibly to central AZ-NM

Epargyreus clarus huachuca Dixon, 1955, 'Arizona' Silver-spotted Skipper, S AZ, S NM, far NW Mexico

Epargyreus antaeus (Hewitson, 1867), Jamaican Silverdrop, Jamaica

Epargyreus spanna Evans, 1952, Hispaniolan Silverdrop, Hispaniola

Epargyreus socus orizaba Scudder, 1872, Round-spotted Silverdrop, E Mexico to Guatemala

Epargyreus windi H. Freeman, 1969, Wind's Silverdrop, W Mexico

Epargyreus exadeus cruza Evans, 1952, Broken Silverdrop, (S TX? [CA?]as stray), E & W Mexico to Panama

Epargyreus aspina Evans, 1952, Spineless Silverdrop, E & W Mexico to Venezuela and Ecuador

Epargyreus spina spina Evans, 1952, Spined Silverdrop, E & W Mexico to Brazil and Bolivia

Epargyreus spinosa Evans, 1952, Suffused Silverdrop, W Mexico to Panama

Epargyreus clavicornis tenda Evans, 1955, Small-spotted Silverdrop, SE Mexico to Venezuela and Ecuador

Epargyreus clavicornis gaumeri Godman & Salvin, 1893, Small-spotted Silverdrop , SE Mexico (?) to Honduras

Epargyreus brodkorbi H. Freeman, 1969, Barely-spotted Silverdrop, Chiapas

Epargyreus deleoni H. Freeman, 1977, Long-spotted Silverdrop , Yucatan Peninsula (CAMP, QROO, YUC Mexico) and Belize

Polygonus leo arizonensis (Skinner, 1911), Hammock Skipper, SW USA (mostly as strays) & S TX to Central America

Polygonus leo pallida Röber, 1925, Hammock Skipper, Central America to Argentina

Polygonus leo histrio Röber, 1925, Hammock Skipper, Florida and Cuba, some Bahamian islands

Polygonus leo leo (Gmelin, 1790), Hammock Skipper, [= *lividus*, = *ishmael*], Hispaniola, Puerto Rico, SE to St. Lucia

Polygonus leo hagar Evans, 1952, Hammock Skipper, Jamaica

Polygonus savigny savigny (Latreille, [1824]), Manuel's Skipper , [= *manueli*], continental, (S TX as stray), N Mexico to Argentina

Polygonus savigny punctus E. Bell & W. Comstock, 1948, Manuel's Skipper , Lesser Antilles; St. Martin S to Grenadines

Chioides albofasciatus (Hewitson, 1867), White-striped Longtail, S TX, S NM, SE AZ, to Costa Rica; Baja California Sur

Chioides catillus albius Evans, 1952, Blurry-striped Longtail, Costa Rica and Panama

Chioides churchi E. Bell & W. Comstock, 1948, Jamaican Longtail, Jamaica

Chioides vintra Evans, 1952, St. Vincent Longtail, St. Vincent, Grenadines, Grenada

Chioides zilpa (Butler, 1872), Zilpa Longtail, S AZ-NM (stray) & S TX, S to Venezuela and Ecuador

Chioides ixion (Plötz, 1880), Hispaniolan Longtail, Hispaniola

Chioides marmorosa (Herrich-Schäffer, 1865), Cuban Longtail, Cuba

Aguna asander asander (Hewitson, 1867), Gold-spotted Aguna, SE AZ & S TX (as stray) to Argentina

Aguna asander haitensis (Mabille & Boulet, 1912), Gold-spotted Aguna, Cuba and Hispaniola

Aguna asander jasper Evans, 1952, Gold-spotted Aguna, Jamaica

Aguna claxon Evans, 1952, Emerald Aguna, Cuba, S Texas to Colombia and Surinam

Aguna aurunce hypozonius (Plötz, 1880), Hewitson's Aguna, SE Mexico to Venezuela

- Aguna coelus* (Stoll, 1782), Stoll's *Aguna*, Costa Rica and Panama to Peru and central Brazil
- Aguna coeloides* Austin & Mielke, 1998, Austin's *Aguna*, SE Mexico to southern Brazil
- Aguna ganna* (Möschler, 1879), Ganna *Aguna*, Costa Rica to Colombia and Venezuela
- Aguna panama* Austin & Mielke, 1998, Panamanian *Aguna*, Honduras to Venezuela
- Aguna metophis* (Latreille, [1824]), Long-tailed *Aguna*, S Texas to S Brazil
- Aguna albistria leucogramma* (Mabille, 1888), White-striped *Aguna*, SE Mexico to Colombia and Venezuela (Surinam?)
- Typhedanus undulatus* (Hewitson, 1867), Mottled Longtail, S Texas (as stray) to Argentina
- Typhedanus ampyx* (Godman & Salvin, 1893), Gold-tufted Skipper, W & NE Mexico to Costa Rica
- Typhedanus salas* H. Freeman, 1977, Salas Skipper, S Mexico & Belize
- Polythrix octomaculata* (Sepp, [1844]), Eight-spotted Longtail, (SE AZ as stray), S Texas to Argentina
- Polythrix maizae* Hellebuyck, 1998, Melanic Longtail, Nicaragua
- Polythrix mexicanus* H. Freeman, 1969, Mexican Longtail, SE AZ, S TX (as stray), N Mexico to Costa Rica
- Polythrix asine* (Hewitson, 1867), Asine Longtail, N Mexico to Panama
- Polythrix caunus* (Herrich-Schäffer, 1869), Four-spotted Longtail, E Mexico to S Brazil and Paraguay
- Polythrix auginus* (Hewitson, 1867), Auginus Longtail, SE Mexico to S Brazil
- Polythrix metallescens* (Mabille, 1888), Metallescens Skipper, SE Mexico to Peru and northern Brazil
- Polythrix kanshul* Shuey, 1991, Kanshul Longtail, S Mexico, Belize, NE Costa Rica
- Cephise nuspesez* Burns, 1996, Burns' Scarlet-eye, E Mexico to Costa Rica
- Cephise mexicanus* Austin & Mielke, 2000, Mexican Scarlet-eye, SLP, OAX (Mexico)
- Cephise aelius* (Plötz, 1880), Longtailed Scarlet-eye, E & S Mexico to Venezuela and Colombia
- Cephise guatemalaensis* (H. Freeman, 1977), Guatemalan Scarlet-eye, Guatemala, Chiapas, Quintana Roo
- Venada advena* (Mabille, 1889), Advena Scarlet-eye, Panama and Colombia, at least
- Venada nevada* Burns, 2005, Nevada Scarlet-eye, Costa Rica
- Venada daneva* Burns, 2005, Daneva Scarlet-eye, Costa Rica

Venada cacao Burns, 2005, Cacao Scarlet-eye, Costa Rica and Panama

Venada naranja Burns, 2005, Orange Scarlet-eye, Costa Rica

Venada sp. probably undescribed, Cryptic Scarlet-eye, ["advena"], Mexico, Guatemala, (Nicaragua?)

Chrysoplectrum pervivax (Hübner, [1819]), Pervivax Skipper, Costa Rica to Bolivia, Peru and N Brazil

Chrysoplectrum perniciosus (Herrich-Schäffer, 1869), Perniciosus Skipper, Panama to Bolivia and C Brazil

Chrysoplectrum epicinea (Butler & H. Druce, 1872), Stub-tailed Skipper, SE Mexico to Costa Rica

Zestusa dorus (W. H. Edwards, 1882), Short-tailed Skipper (Northern Zestusa), far S CO-UT, AZ, NM, W TX, N Mexico

Zestusa staudingeri (Mabille, 1888), Southern Zestusa, Chiapas to El Salvador

Zestusa elwesi (Godman & Salvin, 1893), Mexican Zestusa, Durango to Oaxaca

Zestusa levona Steinhauser, 1972, Levona's Zestusa, Chiapas to El Salvador

Codatractus carlos carlos Evans, 1952, Carlos' Mottled-Skipper, C Mexico to Colombia (at least)

Codatractus alcaeus alcaeus (Hewitson, 1867), White-crescent Mottled-Skipper, S Texas to Costa Rica

Codatractus alcaeus apulia Evans, 1952, White-crescent Mottled-Skipper, Panama (?) to W Ecuador

Codatractus yucatanus H. Freeman, 1977, Yucatan Mottled-Skipper, Yucatan Peninsula

Codatractus arizonensis (Skinner, 1905), Arizona Mottled-Skipper, S AZ, S NM, W TX to Oaxaca

Codatractus sallyae A. Warren, 1995, Sally's Mottled-Skipper, W Mexico, Yucatan Peninsula, Guatemala

Codatractus melon (Godman & Salvin, 1893), Melon Mottled-Skipper, N Mexico to Costa Rica

Codatractus bryaxis (Hewitson, 1867), Golden Mottled-Skipper, N Mexico to Honduras

Codatractus imalena (Butler, 1872), Bluish Mottled-Skipper, Costa Rica to northern Brazil

Codatractus cyledis (Dyar, 1912), Cyledis Mottled-Skipper, S Mexico

Codatractus cyda (Godman, 1901), Cyda Mottled-Skipper, Chiapas to Nicaragua

Codatractus uvydixa (Dyar, 1914) (dark segregate), Variable Mottled-Skipper, W Mexico: Sonora to Michoacan

Codatractus uvydixa (Dyar, 1914) (pale segregate), Variable Mottled-Skipper, S Mexico: Guerrero to Chiapas

Codatractus valeriana (Plötz, 1881), Valeriana Skipper, [= mysie], SE Arizona to Oaxaca

Codatractus hyster (Dyar, 1916), Hyster Skipper, Mexico, El Salvador

Ridens crison crison (Godman & Salvin, 1893), Many-spotted Ridens, SE Mexico, Guatemala

Ridens crison howarthi Steinhauser, 1974, Many-spotted Ridens, El Salvador

Ridens crison cachinnans (Godman, 1901), Many-spotted Ridens, Costa Rica, Panama

Ridens biolleyi (Mabille, 1900), Biolley's Ridens, Costa Rica, Panama

Ridens mephitis (Hewitson, 1876), Hewitson's Ridens, SE Mexico to Peru and Bolivia

Ridens panche (R. Williams, 1927), Panche Ridens, Costa Rica to Colombia and Ecuador

Ridens allyni H. Freeman, 1979, Allyn's Ridens, SE Mexico, Guatemala

Ridens miltas (Godman & Salvin, 1893), Mexican Ridens, E Mexico

Ridens mercedes Steinhauser, 1983, White-tailed Ridens, SW Mexico

Ridens fieldi Steinhauser, 1974, Field's Ridens, Guatemala (Volcan Sta. Maria)

Ridens toddi Steinhauser, 1974, Todd's Skipper, S Mexico (CHIS) to El Salvador

Ridens ridens (Hewitson, 1876), Frosted Skipper, Costa Rica & Panama

Urbanus proteus proteus (Linnaeus, 1758), Long-tailed Skipper, continental; E USA, S CA, S AZ, S NM, TX to Argentina

Urbanus proteus domingo (Scudder, 1872), Long-tailed Skipper, Bahamas and Antilles

Urbanus viterboana (Ehrmann, 1907), Bluish Longtail, E & W Mexico to Colombia and Ecuador

Urbanus belli (Hayward, 1935), Bell's Longtail, W Mexico & S Texas (as stray) to Argentina

Urbanus pronta Evans, 1952, Spot-banded Longtail, E & W Mexico to Argentina

Urbanus pronus Evans, 1952, Pronus Longtail, (S TX one-time stray), E & S Mexico to Argentina

Urbanus esmeraldus (Butler, 1877), Esmeralda Longtail, (S TX as stray), E & W Mexico to Peru & Guianas, Trinidad

Urbanus esma Evans, 1952, Esma Longtail, Panama to Brazil, Trinidad

- Urbanus evona Evans, 1952, Turquoise Longtail , E & W Mexico to Colombia
- Urbanus elmina Evans, 1952, Andean Longtail, (Costa Rica?), Colombia, Ecuador
- Urbanus viridis H. Freeman, 1970, Rare Longtail, SE Mexico (VER)
- Urbanus esta Evans, 1952, Esta Longtail, E & W Mexico to Ecuador and Brazil
- Urbanus prodicus E. Bell, 1956, Montane Longtail , E & W Mexico to Costa Rica; often in cloud forest
- Urbanus velinus (Plötz, 1880), Velinus Skipper, (SE Mexico?). Guatemala to Brazil and Trinidad
- Urbanus dorantes dorantes (Stoll, 1790), Dorantes Longtail, continental; Florida, S AZ, S NM, TX to Argentina
- Urbanus dorantes calafia (R. Williams, 1926), 'Baja' Dorantes Longtail, Baja California Sur
- Urbanus dorantes santiago (Lucas, 1857), 'Cuban' Dorantes Longtail, Cuba, N Andros, Mangrove Cay, Grand Bahama
- Urbanus dorantes cramptoni W. Comstock, 1944, 'Antillean' Dorantes Longtail, Hispaniola, Puerto Rico, Mona, Culebra, Virgin Is., Gr. Cayman
- Urbanus obscurus (Hewitson, 1867), Dark Longtail, Lesser Antilles; St. Martin S to Grenadines, Barbados
- Urbanus procne (Plötz, 1881), Brown Longtail, S Texas, SE AZ/SW NM (as stray), to Argentina
- Urbanus simplicius (Stoll, 1790), Plain Longtail, S Texas (as stray) to Argentina
- Urbanus teleus (Hübner, 1821), Teleus Longtail, S Texas to Argentina
- Urbanus tanna Evans, 1952, Tanna Longtail, S Texas (as stray) to Ecuador, Guianas, Trinidad
- Urbanus doryssus chales (Godman & Salvin, 1893), White-tailed Longtail, W Mexico
- Urbanus doryssus (Swainson, 1831) (E Mexican segregate), White-tailed Longtail, ["d. doryssus"], S Texas to El Salvador
- Urbanus doryssus doryssus (Swainson, 1831), White-tailed Longtail, Chiapas to S Brazil & Bolivia
- Urbanus albimargo albimargo (Mabille, 1875), White-edged Longtail, NE Mexico to Venezuela and Ecuador
- Urbanus trebia (Möschler, 1879), White-capped Longtail, El Salvador to Colombia and Trinidad
- Urbanus carmelita carmelita (Herrich-Schäffer, 1869), Carmelita Longtail, Panama to Brazil

Urbanus virescens (Mabille, 1877), Green-washed Longtail, Panama to S Brazil and Paraguay

Urbanus chalco (Hübner, 1823), Great White Longtail, Costa Rica to S Brazil and Paraguay

Astraptes talus (Cramer, 1777), Green Flasher, E & S Mexico to Argentina; Jamaica, Cuba, Hispaniola, etc.

Astraptes fulgurator azul (Reakirt, [1867]) complex, Two-barred Flasher, Flashing *Astraptes*, This appears to be a complex of continental species-level taxa.

Astraptes tucuti (R. Williams, 1927), Tucuti Flasher, SE Mexico to Peru and Bolivia

Astraptes brevicauda (Plötz, 1886), Short-tailed Flasher, [= *talthybius*], SE Mexico to Costa Rica

Astraptes palliolum (H. H. Druce, 1908), Ochre-stained Flasher, Costa Rica

Astraptes egregius egregius (Butler, 1870), Small-spotted Flasher, S TX (rare stray) to Colombia and Venezuela

Astraptes apastus apastus (Cramer, 1777), Broad-banded Flasher, SE Mexico to Guianas and N Brazil

Astraptes aulus (Plötz, 1881), Green-tinged Flasher, Nicaragua to Peru and Argentina

Astraptes enotrus (Stoll, 1781), White-spotted Flasher, E & W Mexico to S Brazil, Paraguay, Bolivia

Astraptes janeira (Schaus, 1902), Schaus' Flasher, TL: Brazil (RJ)

Astraptes megalurus (Mabille, 1877), Long-tailed Flasher, E & W Mexico to Colombia

Astraptes alardus latia Evans, 1952, Frosted Flasher, S TX (rare stray), E Mexico to Colombia

Astraptes habana habana (Lucas, 1857), Frosty Flasher, Cuba, Isla de Juventud

Astraptes habana heriul (Mabille & Boulet, 1912), Frosty Flasher, Hispaniola

Astraptes xagua xagua (Lucas, 1857), Antillean Flasher, Cuba, Andros

Astraptes xagua christyi (Sharpe, 1898), Antillean Flasher, Hispaniola

Astraptes alector hopfferi (Plötz, 1881), Gilbert's Flasher, [= *gilberti*], S TX (stray), E & W Mexico to NW Brazil and Bolivia

Astraptes cretatus cretatus (Hayward, 1939), Cretatus Flasher, [= *alfius*], Nicaragua, Colombia to Bolivia

Astraptes creteus crana Evans, 1952, Whitened Flasher, SE Mexico to Panama

Astraptes creteus creteus (Cramer, 1780), Whitened Flasher, Panama to Guianas and Bolivia

Astraptes latimargo latimargo (Herrich-Schäffer, 1869), White-edged Flasher, Panama, Colombia, Ecuador

Astraptes bifascia (Herrich-Schäffer, 1869), Green-headed Flasher, SE Mexico to Panama

Astraptes chiriquensis chiriquensis (Staudinger, 1876), Chiriqui Flasher, E Mexico to Venezuela and Ecuador

Astraptes weymeri (Plötz, 1882), Weymer's Flasher, MORE INFO ...

Astraptes jaira (Butler, 1870), Jamaican Flasher, Jamaica

Astraptes cassander (Fabricius, 1793), Cuban Flasher, Cuba and Isla de Juventud

Astraptes galesus cassius Evans, 1952, Dull Flasher, Costa Rica to Venezuela

Astraptes anaphus annetta Evans, 1952, Yellow-tipped Flasher , S Texas to Guiana and Peru

Astraptes anaphus anausis (Godman & Salvin, 1896), 'Caribbean' Yellow-tipped Flasher, Greater Antilles, Virgin Is., Montserrat to Grenada

Astraptes phalaecus (Godman & Salvin, 1893), Yellow-edged Flasher , E & W Mexico to Colombia

Narcosius parisi helen (Evans, 1952), Steely Flasher, E & W Mexico to Panama

Narcosius colossus colossus (Herrich-Schäffer, 1869), Colossal Flasher, SE Mexico to Colombia and Venezuela

Narcosius samson (Evans, 1952), Samson Flasher, SE Mexico to Brazil and Bolivia

Narcosius nazaraeus Steinhauser, 1986, Nazareus Flasher, SE Mexico to Guianas, Brazil, Peru, Ecuador and Bolivia

Calliades zeutus (Möschler, 1879), Zeutus Banded-Skipper, SE Mexico to Guianas and Bolivia

Autochton cellus (Boisduval & Le Conte, [1837]), Golden Banded-Skipper, E-central & SE USA, SE AZ, SW NM, Mexico, S to El Salvador

Autochton siemadror Burns, 1984, East-Mexican Banded-Skipper, NE Mexico; cloud forest

Autochton pseudocellus (Coolidge & Clemence, [1910]), Sonoran Banded-Skipper, Mexico; apparently extirpated from S Arizona

Autochton cincta (Plötz, 1882), Chisos Banded-Skipper , W Texas to Guatemala

Autochton vectilucis (Butler, 1872), Central American Banded-Skipper, Chiapas to Panama

Autochton neis (Geyer, 1832), Broad Banded-Skipper, E & W Mexico to S Brazil and Paraguay

Autochton longipennis (Plötz, 1882), Spike Banded-Skipper, E & S Mexico to S Brazil

Autochton zarex (Hübner, 1818), Sharp Banded-Skipper, E & S Mexico to Argentina

Autochton bipunctatus (Gmelin, 1790), Gmelin's Banded-Skipper, SE Mexico to Bolivia and Brazil

Achalarus lyciades (Geyer, 1832), Hoary Edge, E USA, (Veracruz)

Achalarus casica (Herrich-Schäffer, 1869), Desert Cloudywing, SW USA (SE AZ to C TX), Mexico

Achalarus tehuacana (Draudt, 1922), Tehuacan Cloudywing, S TX (rare stray), E Mexico to Guatemala

Achalarus albociliatus albociliatus (Mabille, 1877), White-edged Cloudywing, SE AZ & S TX (?) as stray, E & W Mexico to Costa Rica

Achalarus albociliatus leucophrys (Mabille, 1898), White-edged Cloudywing, Panama and Colombia

Achalarus toxeus (Plötz, 1882), Coyote Cloudywing, W Mexico and S Texas to Panama

Thessia jalapus (Plötz, 1881), Jalapus Cloudywing, S Texas (rare stray) to Colombia

Thessia athesis (Hewitson, 1867), Athesis Cloudywing, Panama, Colombia, Venezuela to Tobago

Thorybes drusius (W. H. Edwards, [1884]), Drusius Cloudywing, White-fringed Cloudywing, SE AZ, SW NM, W TX, Mexico

Thorybes bathyllus (J. E. Smith, 1797), Southern Cloudywing, E USA

Thorybes pylades pylades (Scudder, 1870), Northern Cloudywing, Canada, E USA

Thorybes pylades indistinctus Austin & J. Emmel, 1998, Northern Cloudywing, Baja California (N) to Washington, Cascades (& Ochocos) west

Thorybes pylades (Scudder, 1870) (S Rocky Mountain segregate), Northern Cloudywing, NE OR, S ID, MT, WY, W SD, W NE, N & C UT, CO, N NM, N AZ

Thorybes pylades (Scudder, 1870) (southwestern segregate), Northern Cloudywing, S AZ, S NM, W Mexico to Oaxaca

Thorybes pylades albosuffusa H. Freeman, 1943, Northern Cloudywing, W Texas, NE Mexico

Thorybes pylades (Scudder, 1870) (BCS segregate), Northern Cloudywing, Baja California Sur

Thorybes confusus E. Bell, 1923, Confused Cloudywing, SE USA

Thorybes diversus E. Bell, 1927, Western Cloudywing, C & N Sierra Nevada and Siskiyou Mts., CA, far SW OR

Thorybes mexicana aemilea (Skinner, 1893), Mexican Cloudywing, Cascade Mts. N CA to C OR

Thorybes mexicana nevada Scudder, 1872, Mexican Cloudywing, S Rocky Mountains (S WY-ID to NM, AZ), CA-NV Sierra Nevada

Thorybes mexicana blanca Scott, 1981, Mexican Cloudywing, White Mts., CA-NV

Thorybes mexicana dobra Evans, 1952, Mexican Cloudywing, NW Mexico, SE Arizona, SW New Mexico

Thorybes mexicana mexicana (Herrich-Schäffer, 1869), Mexican Cloudywing, C & W Mexico

Cabares potrillo potrillo (Lucas, 1857), Potrillo Skipper, SE AZ (stray), S TX to Costa Rica; Jamaica, Cuba, Hispaniola

Cabares potrillo reducta Mabilie & Boulet, 1919, Potrillo Skipper, Panama, Colombia, Venezuela, Trinidad

Spathilepia clonius (Cramer, 1775) , Falcate Skipper, S TX (sporadic) to N Argentina

Cogia cajeta cajeta (Herrich-Schäffer, 1869), Yellow-haired Skipper, SE Mexico to Nicaragua

Cogia cajeta eluina Godman & Salvin, 1894, 'Darkened' Yellow-haired Skipper, W Mexico to Costa Rica

Cogia calchas (Herrich-Schäffer, 1869), Mimosa Skipper, S Texas to N Argentina

Cogia hippalus hippalus (W. H. Edwards, 1882), Acacia Skipper, AZ, SW NM, W & S TX, W Mexico

Cogia hippalus hiska Evans, 1953, 'East-Mexican' Acacia Skipper, E Mexico to Costa Rica

Cogia hippalus peninsularis L. Miller & MacNeill, 1969, 'Baja' Acacia Skipper, Baja California Sur

Cogia outis (Skinner, 1894), Outis Skipper, NE Mexico (CHIH, COAH), Texas, S-C OK to far SW MO

Cogia caicus caicus (Herrich-Schäffer, 1869), Gold-costa Skipper , Chiapas to Costa Rica

Cogia caicus moschus (W. H. Edwards, 1882), Gold-costa Skipper, SE AZ. S NM to OAX

Cogia aventinus (Godman & Salvin, 1894), Trimmed Skipper, W Mexico, Yucatan

Cogia mala Evans, 1953, Guatemalan Skipper, S Mexico, Guatemala

Telemiades avitus (Stoll, 1781), Yellow-spotted Telemiades, SE Mexico to N Amazon

Telemiades delalande (Latreille, [1824]), Delalande Skipper, Guatemala to Venezuela, Peru, upper Amazon

Telemiades centrites gallius (Mabilie, 1888), Centrites Skipper, Costa Rica and Panama, mid-elevation rain forest

Telemiades chrysorrhoea (Godman & Salvin, 1893), *Chrysorrhoea* Skipper, Costa Rica and Panama, cloud forest

Telemiades nicomedes (Möschler, 1879), Dark *Telemiades*, SE Mexico to Guianas and upper Amazon

Telemiades choricus (Schaus, 1902), Mexican *Telemiades*, W & S Mexico, Belize

Telemiades megallus Mabille, 1888, Orange *Telemiades*, SE Mexico (?) to Costa Rica

Telemiades sila Evans, 1953, *Sila Telemiades*, Nicaragua to Colombia, Venezuela and Ecuador

Telemiades epicalus Hübner, [1819], Hübner's *Telemiades*, Panama to S Brazil

Telemiades meris meris (Plötz, 1886), *Meris Telemiades*, Panama & Colombia

Telemiades penidas (Hewitson, 1867), *Penidas Telemiades*, Costa Rica to S Brazil

Telemiades antiope antiope (Plötz, 1882), Plötz's *Telemiades*, Nicaragua, Costa Rica, Colombia, S Brazil

Telemiades fides Bell, 1949, Small *Telemiades*, E & W Mexico to Colombia, Ecuador and upper Amazon

Telemiades corbulo (Stoll, 1781), *Corbulo* Skipper, Guianas, Ecuador, Peru, Bolivia, upper and lower Amazon

Telemiades oclus (Mabille, 1889), *Oclus* Skipper, [= *cora*], Honduras to Panama

Bungalotis erythus (Cramer, 1775), Spotted Scarlet-eye, SE Mexico to Guianas, Brazil and Bolivia

Bungalotis diophorus (Möschler, 1883), *Diophorus* Scarlet-Eye, Costa Rica to Guianas and N Brazil

Bungalotis midas (Cramer, 1775), White-cheeked Scarlet-eye, SE Mexico to S Brazil and Paraguay

Bungalotis astylos (Cramer, 1780), Dark-cheeked Scarlet-eye, SE Mexico to Guianas, Peru and S Brazil

Bungalotis quadratum quadratum (Sepp, [1845]), Pallid Scarlet-eye, SE Mexico to Guianas

Bungalotis milleri H. Freeman, 1977, Miller's Scarlet-eye, SE Mexico to Costa Rica

Salatis canalis (Skinner, 1920), Canal Scarlet-eye, Costa Rica to Ecuador

Salatis salatis (Stoll, 1782), Variable Scarlet-eye, Nicaragua, Panama to Guianas, Peru and S Brazil

Nicephellus nicephorus (Hewitson, 1876), Two-spotted Scarlet-eye, SE Mexico to Guianas, N & S Brazil, NE Peru

Euriphellus euribates euribates (Stoll, 1782), Euribates Scarlet-eye, Costa Rica to Brazil and Bolivia

Dyscophellus porcius porcius (C. Felder & R. Felder, 1862), Fiery Scarlet-eye, S Mexico to Paraguay and S Brazil

Dyscophellus diaphorus (Mabille & Boulet, 1912), Diaphorus Scarlet-eye, Costa Rica to French Guiana and N Brazil

Dyscophellus phraxanor lama Evans, 1952, Big-spotted Scarlet-eye, SE Mexico to Honduras

Dyscophellus phraxanor phraxanor (Hewitson, 1876), Big-spotted Scarlet-eye, Nicaragua to Ecuador

Dyscophellus sebalus (Stoll, 1781), Sebalus Scarlet-eye, Costa Rica to Guianas and N Brazil

Dyscophellus ramon Evans, 1952, Plain Scarlet-eye, SE Mexico to Panama

Dyscophellus ramusis (Stoll, 1781), Subtle Scarlet-eye, Costa Rica to S Brazil

Nascus phintias Schaus, 1913, Schaus' Scarlet-eye, SE Mexico to French Guiana and Peru

Nascus phocus (Cramer, 1777) complex, Common Scarlet-eye, E & W Mexico to S Brazil, Paraguay and Argentina

Nascus solon corilla Evans, 1952, Corilla Scarlet-eye, S Mexico to Colombia and Venezuela

Nascus broteas (Cramer, 1780), Broteas Scarlet-eye, E Mexico to Argentina, S Brazil and Paraguay

Pseudonascus paullinae (Sepp, [1842]), Least Scarlet-eye, S Mexico to Bolivia and S Brazil

Porphyrogenes omphale (Butler, 1871), Blue Scarlet-eye, Costa Rica, Panama, Venezuela, Guianas to Bolivia

Porphyrogenes zohra (Möschler, 1879), Zohra Scarlet-eye, Honduras, Nicaragua, Venezuela, Guianas, N Brazil (Para)

Porphyrogenes sula (Williams & Bell, 1940), Sula Scarlet-eye, Honduras, possibly Costa Rica

Porphyrogenes glavia Evans, 1952, Glavia Scarlet-eye, Panama

Porphyrogenes spoda Evans, 1952, Spoda Scarlet-eye, Panama

Porphyrogenes spina Austin & Mielke, 2008, Spina Scarlet-eye, Panama

Porphyrogenes speciosus Austin & Mielke, 2008, Speciosus Scarlet-eye, Costa Rica

Porphyrogenes peterwegei Burns, 2010, Peter's Scarlet-eye, NW Costa Rica

Porphyrogenes virgatus (Mabille, 1888), Virgatus Scarlet-eye, Honduras, Guyana, Peru

Porphyrogenes eudemus (Mabille, 1888), Eudemus Scarlet-eye, Panama, Peru

Porphyrogenes passalus (Herrich-Schäffer, 1869), *Passalus* Scarlet-eye, Panama, Colombia, Bolivia, Brazil (at least)

Porphyrogenes unassociated unnamed female #3, Mystery Scarlet-eye #3, Panama

Porphyrogenes unassociated unnamed female #4, Mystery Scarlet-eye #4, Panama

Porphyrogenes unassociated unnamed female #5, Mystery Scarlet-eye #5, Costa Rica

Porphyrogenes unassociated unnamed male, Mystery Scarlet-eye #6, Costa Rica

Ocyba calathana calanus (Godman & Salvin, 1894), Yellow-rimmed Scarlet-eye, Mexico to Costa Rica

Ocyba calathana calathana (Hewitson, 1868), Yellow-rimmed Scarlet-eye, Panama and Colombia

Subfamily *Pyrginae* Burmeister, 1878, Spreadwing Skippers,

Tribe *Pyrrhopygini* Mabille, 1877, Firetips, Golf-Club Skippers,

Oxynetra hopfferi Staudinger, 1888, Hopffer's Firetip, SE Mexico (VER?) to Panama

Azonax typhaon (Hewitson, 1877), Typhaon Skipper, SE Mexico (OAX) to Guianas

Myscelus amystis hages Godman & Salvin, 1893, Widespread Myscelus, E & W Mexico to Panama

Myscelus phoronis phoronis (Hewitson, 1867), Phoronis Myscelus, Panama, Colombia, Ecuador, Peru, Bolivia

Myscelus belti Godman & Salvin, 1879, Belt's Myscelus, SE Mexico (OAX, VER, CHIS) to Venezuela

Myscelus perissodora Dyar, 1914, Dyar's Myscelus, S Mexico (GRO, OAX, VER) to Colombia

Myscelus assaricus michaeli Nicolay, 1975, Fiery Myscelus, SE Mexico (OAX, CHIS) to Panama

Passova gellias (Godman & Salvin, 1893), Gellias Firetip, Belize, Costa Rica & Panama

Aspitha leander (Boullet, 1912), Leander Firetip, SE Mexico (OAX), Colombia

Zonia zonia panamensis Nicolay, 1975, Pama Skipper, Belize, Panama

Pyrrhopyge zenodorus Godman & Salvin, 1893, Red-headed Firetip, SE Mexico to Costa Rica

Pyrrhopyge phidias evansi E. Bell, 1947, Original Firetip, Costa Rica, Panama, Colombia, Ecuador

Pyrrhopyge pseudophidias E. Bell, 1931, Impostor Firetip, Panama, Colombia, Ecuador, Venezuela, Peru, N Brazil

Pyrrhopyge haemon Godman & Salvin, 1893, Tawny-rimmed Skipper, Costa Rica

Pyrrhopyge crida Hewitson, 1871, White-banded Firetip, SE Mexico to Colombia and Ecuador

Creonpyge creon creon (H. Druce, 1874), Creon Skipper, N Costa Rica to Cocle Prov., Panama, Atlantic & Pacific slopes

Creonpyge creon lilliana (Nicolay & Small, 1969), Creon Skipper, Cerro Campana, far E Cocle, far W Panama Prov., Panama

Creonpyge creon taylori (Nicolay & Small, 1981), Creon Skipper, Fila Cruces, Puntarenas, SE Costa Rica

Chalypyge chalybea chalybea (Scudder, 1872), Orange-rimmed Skipper, central JAL, GTO, QRO

Chalypyge chalybea chloris (Evans, 1951), Orange-rimmed Skipper, W and S Mexico, Guatemala, Honduras

Apyrrothrix araxes arizonae (Godman & Salvin, 1893), 'Arizona' Araxes Skipper, SE AZ, SW NM, W TX (local), SON, CHIN, NL, TAMPS, SLP

Apyrrothrix araxes (Hewitson, 1867) (Sinaloa-Durango segregate), Araxes Skipper, SIN, DGO (probably NW NAY)

Apyrrothrix araxes (Hewitson, 1867) (Nayarit segregate), Araxes Skipper, SW NAY

Apyrrothrix araxes (Hewitson, 1867) (Guerrero-Michoacan segregate), Araxes Skipper, GRO, MICH

Apyrrothrix araxes araxes (Hewitson, 1867), Araxes Skipper, COL, JAL, DF, MOR, HGO, PUE, VER

Apyrrothrix araxes (Hewitson, 1867) (Oaxaca segregate), Araxes Skipper, OAX

Yanguna cosyra (H. Druce, 1875), Cosyra Skipper, Guatemala to Colombia and Ecuador

Melanopyge mulleri (E. Bell, 1934), Red-spotted Skipper, SE Mexico (CHIS, OAX, VER)

Melanopyge erythrosticta (Godman & Salvin, 1879), Spotted Skipper, SE Mexico to Panama

Melanopyge sp. undescribed (Burns), Dotted Skipper, SE Mexico to Costa Rica

Melanopyge hoffmanni (H. Freeman, 1977), Hoffmann's Skipper, SE Mexico (OAX, TAB, CHIS), Belize

Melanopyge maculosa (Hewitson, 1866), Maculosa Skipper, Panama, Colombia, Ecuador

Jonaspyge jonas (C. Felder & R. Felder, 1859), Scallop-edged Firetip, SE Mexico (HGO, OAX, PUE, VER, CHIS), Guat., Nicaragua

Jonaspyge tzotzili (H. Freeman, 1969), Freeman's Firetip, SE Mexico (CHIS, OAX)

Jonaspyge aesculapus (Staudinger, 1876), Fire-edged Skipper, Costa Rica, Panama, Colombia, Ecuador

Elbella intersecta strova Evans, 1951, Variable Firetip, Panama to Venezuela

Elbella patroculus patroculus (Plötz, 1879), Patroculus Skipper, Panama to Bolivia

Elbella scylla (Ménétriés, 1855), Scylla Firetip, E & W Mexico to Costa Rica

Elbella dulcinea (Plötz, 1879), Dulcinea Firetip, Costa Rica, Panama, Colombia, Venezuela, Ecuador

Elbella patrobas mexicana Mielke, 1995, Patrobas Skipper, SE Mexico (QROO, TAB, CHIS, VER, OAX), Belize

Elbella patrobas patrobas (Hewitson, 1857), Patrobas Skipper, Guatemala to Colombia

Elbella miodesmia (Röber, 1925), Rober's Skipper, SE Mexico (OAX), Panama, Colombia

Parelbella macleannani (Godman & Salvin, 1893), Macleannan's Skipper, SE Mexico (CHIS, VER) to Ecuador

Parelbella nigra Mielke, Austin & A. Warren, 2008, Mielke's Skipper, SE Mexico (OAX, VER)

Jemadia pseudognetus (Mabille, 1878), Dot-collared Skipper, SE Mexico to Venezuela and upper Amazon

Jemadia pater Evans, 1951, Pater Skipper, Panama, Colombia, Venezuela

Amysoria galgala (Hewitson, 1866), Red-banded Firetip, S Mexico (SW CHIS) to Colombia and Venezuela

Mysoria barcastus ambigua (Mabille & Boulet, 1908), Royal Firetip, SE Mexico (CHIS, TAB, VER) to Costa Rica

Mysoria barcastus venezuelae (Scudder, 1872), Royal Firetip, Panama, Colombia, Venezuela, Guianas, Trinidad, Tobago

Mysoria amra (Hewitson, 1871), Blue-collared Firetip, W Mexico, Guatemala

Mysoria affinis (Herrich-Schäffer, 1869), Red-collared Firetip, [= wilsoni], W Mexico, Guatemala

Mysarbia sejanus stoll Mielke & Casagrande, 2002, Black-veined Firetip, Costa Rica, Colombia, Venezuela, Fr. Guiana, Upper Amazon

Tribe Celaenorrhini Swinhoe, 1912



Celaenorrhinus aegiochus (Hewitson, 1876), Flashing Flat, Costa Rica and Panama

Celaenorrhinus monartus (Plötz, 1884), Dotted Flat, S Mexico to N Brazil

Celaenorrhinus fritzgaertneri (Bailey, 1880), Fritzgaertner's Flat, SE AZ & S TX (as strays) to Costa Rica

Celaenorrhinus stallingsi H. Freeman, 1946, Stallings' Flat, S Texas (rare stray), E Mexico to Costa Rica

Celaenorrhinus stola Evans, 1952, Stola Flat, E & W Mexico to Nicaragua

Celaenorrhinus approximatus R. Williams & E. Bell, 1940, Approximate Flat, Costa Rica and Panama

Celaenorrhinus bifurcus E. Bell, 1934, Bifurcate Flat, Costa Rica to Guianas, Trinidad, Ecuador

Celaenorrhinus eligius eligius (Stoll, 1781), Eligius Flat, Costa Rica to Guianas, Trinidad, Tobago, to Peru

Celaenorrhinus cynapes cynapes (Hewitson, 1870), Small Flat, SE Mexico to Ecuador

Tribe Carcharodini Verity, 1940, Spreadwing Skippers,

Mimia phidyle phidyle (Godman & Salvin, 1894), Phidyle Skipper, CHIS to Panama

Mimia chiapaensis H. Freeman, 1969, Chiapan Skipper, CHIS

Arteurotia tractipennis tractipennis Butler & H. Druce, 1872, Starred Skipper, S TX to Surinam and Bolivia

Mictris crispus caerulea (Mabille, 1877), Crisp Skipper, CHIS to Ecuador

Polyctor cleta Evans, 1953, Cleta Tufted-Skipper, E & W Mexico to Costa Rica

Polyctor polyctor polyctor (Prittwitz, 1868), Polyctor Tufted-Skipper, Costa Rica to Argentina

Polyctor enops (Godman & Salvin, 1894), Enops Tufted-Skipper, E & S Mexico to Costa Rica

Nisoniades godma Evans, 1953, Godma Tufted-Skipper, E & S Mexico to Costa Rica

Nisoniades panama Evans, 1953, Panamanian Tufted-Skipper, Panama to Ecuador

Nisoniades laurentina (R. Williams & E. Bell, 1939), Dark Tufted-Skipper, SE Mexico (VER) to Guianas and Trinidad

Nisoniades rubescens (Möschler, 1877), Purplish Tufted-Skipper, W Mexico & S Texas (as stray) to lower Amazon and Bolivia

Nisoniades ephora (Herrich-Schäffer, 1870), Ephora Tufted-Skipper, E & W Mexico to Guianas, Trinidad, Ecuador and Peru

Nisoniades macarius (Herrich-Schäffer, 1870), Macarius Tufted-Skipper, (doubtful for Mexico, Honduras), Panama to Argentina

Nisoniades castolus (Hewitson, 1878), Castolus Tufted-Skipper, SE Mexico (VER) to S Brazil

Nisoniades torta Steinhauser, 1989, Torta Tufted-Skipper, Costa Rica to Panama

Pachyneuria licisca (Plötz, 1882), Immaculate Tufted-Skipper, E & W Mexico to Colombia and Venezuela

Pellicia arina Evans, 1953, Glazed Tufted-Skipper, S TX to Panama

Pellicia costimacula costimacula Herrich-Schäffer, 1870, Frosted Tufted-Skipper, Panama to S Brazil and Paraguay

Pellicia angra angra Evans, 1953, Rare Tufted-Skipper, SE Mexico (VER) to Panama

Pellicia tonga Evans, 1953, Tonga Tufted-Skipper, Panama, Colombia, Venezuela

Pellicia dimidiata dimidiata Herrich-Schäffer, 1870, Morning Glory Tufted-Skipper, W Mexico and S TX (as stray) to Guianas, Trinidad, up. Amazon

Burca stillmani E. Bell & W. Comstock, 1948, Stillman's Skipper, Hispaniola

Burca concolor concolor (Herrich-Schäffer, 1865), Concolorous Skipper, Cuba

Burca concolor atrata Rindge, 1955, Concolorous Skipper, Bahamas; Great Bahama Bank

Burca braco braco (Herrich-Schäffer, 1865), Braco Skipper, Cuba

Burca braco castigata Rindge, 1955, Braco Skipper, Bahamas; Great Bahama Bank

Burca cubensis (Skinner, 1913), Cuban Skipper, Cuba

Burca hispaniolae E. Bell & W. Comstock, 1948, Hispaniolan Skipper, Hispaniola

Windia windi H. Freeman, 1969, Wind's Skipper, SE Arizona (one-time stray), NW Mexico to Costa Rica

Noctuana lactifera bipuncta (Plötz, 1884), Cryptic Skipper, E & W Mexico to Nicaragua

Noctuana lactifera lactifera (Butler & H. Druce, 1872), Cryptic Skipper, Costa Rica to Colombia

Noctuana noctua (C. Felder & R. Felder, 1867), Noctua Skipper, Panama to Ecuador and Peru

Noctuana stator (Godman & Salvin, 1899), Red-studded Skipper, W Mexico & S TX (one-time stray) to Guianas, Trinidad, Peru

Morvina fissimacula pelarge (Godman & Salvin, 1894), Pelarge Skipper, Nicaragua to Panama

Myrinia myris (Mabille, 1898), *Myris* Skipper, Campeche, Belize, Nicaragua to Guianas, Bolivia, S Brazil

Myrinia raymundo H. Freeman, 1979, Raymundo's Skipper, SE Mexico (TAB, CHIS)

Cyclosemia leppa Evans, 1953, Leppa Eyed-Skipper, Guatemala to Bolivia

Cyclosemia anastomosis Mabille, 1878, Northern Eyed-Skipper, E Mexico to Ecuador

Cyclosemia lyrcaea (Hewitson, 1878), *Lyrcaea* Eyed-Skipper, Panama to SE Brazil

Cyclosemia pedro R. Williams & E. Bell, 1940, Pedro Eyed-Skipper, Honduras to N Brazil ("Amazons")

Cyclosemia caerulea Austin & DeVries, 2001, *Caerulea* Eyed-Skipper, Costa Rica

Cyclosemia subcaerulea Schaus, 1913, *Subcaerulea* Eyed-Skipper, Costa Rica to Ecuador

Gorgopas chlorocephala chlorocephala (Herrich-Schäffer, 1870), Green-headed Sootywing, Nicaragua to Bolivia

Bolla cylindus (Godman & Salvin, 1896), Checkered Sootywing, SE Mexico (VER) to Costa Rica

Bolla cybele Evans, 1953, Veracruz Sootywing, SE Mexico (VER)

Bolla cyclops (Mabille, 1876), *Cyclops* Sootywing, [= sonda], SE Mexico, Guatemala, Colombia

Bolla atahualpai (Lindsey, 1925), *Atahualpai* Sootywing, Panama to Argentina

Bolla cupreiceps (Mabille, 1891), Copper-headed Sootywing, E & S Mexico to Bolivia and S Brazil

Bolla subapicatus (Schaus, 1902), Fin-tipped Sootywing, W & S Mexico, Guatemala

Bolla orsines (Godman & Salvin, 1896), Hook-tipped Sootywing, E & W Mexico to El Salvador

Bolla evippe (Godman & Salvin, 1896), Rough-tipped Sootywing, E & W Mexico, Guatemala, Nicaragua

Bolla imbras (Godman & Salvin, 1896), Rounded Sootywing, [= pullata], E & S Mexico to Colombia and Venezuela

Bolla brennus brennus (Godman & Salvin, 1896), Obscure Sootywing, S Texas (one-time stray), E Mexico to Panama

Bolla oriza Evans, 1953, Orizaba Sootywing, SE Mexico (VER, CHIS?)

Bolla guerra Evans, 1953, Guerrero Sootywing, SW Mexico to Nicaragua

Bolla boliviensis (E. Bell, 1937), Bolivian Sootywing, Guatemala to Bolivia

Bolla saletas (Godman & Salvin, 1896), *Saletas* Sootywing, Guatemala to El Salvador

- Bolla eusebius (Plötz, 1884), Spatulate Sootywing , E & W Mexico to Costa Rica
- Bolla fenestra Steinhauser, 1991, Oaxacan Sootywing, S Mexico (OAX)
- Bolla solitaria Steinhauser, 1991, Solitary Sootywing, S Mexico (OAX)
- Bolla zorilla (Plötz, 1886), Zorilla Sootywing, SE Mexico (VER, OAX) to Bolivia
- Bolla clytius (Godman & Salvin, 1897), Mottled Sootywing, SE AZ & S TX (rare strays) to Honduras
- Bolla litus (Dyar, 1912), Many-spotted Sootywing, mostly W Mexico
- Staphylus ceos (W. H. Edwards, 1882), Golden-headed Sootywing, far S CA, S NV (rare), S AZ, S NM, S TX, to QRO
- Staphylus vulgata (Möschler, 1879), Golden-snouted Sootywing, E & W Mexico to Argentina
- Staphylus caribbea (R. Williams & E. Bell, 1940), Panamanian Sootywing, Nicaragua to Ecuador
- Staphylus tepeca (E. Bell, 1942), Grizzled Sootywing, C & S Mexico (mostly DF to OAX)
- Staphylus hayhurstii (W. H. Edwards, 1870), Hayhurst's Sootywing, S Ontario, E USA to far SE SD, NB, KS, to S-C TX
- Staphylus tierra Evans, 1953, West-Mexican Sootywing, W Mexico (SON to CHIS), El Salvador
- Staphylus mazans (Reakirt, [1867]), Mazans Sootywing , C TX to CHIS
- Staphylus ascalaphus (Staudinger, 1876), Central American Sootywing, SE Mexico to Bolivia, S Brazil
- Staphylus perforata (Möschler, 1879), Perforata Sootywing, Panama, Colombia, Peru
- Staphylus unicornis Steinhauser & Austin, 1993, Unicorn Sootywing, Costa Rica
- Staphylus lenis Steinhauser, 1989, Lenis Sootywing, Yucatan Peninsula to Trinidad
- Staphylus azteca (Scudder, 1872), Aztec Sootywing, E & W Mexico to Costa Rica
- Staphylus vincula (Plötz, 1886), Mountain Sootywing, E & W Mexico to Venezuela
- Staphylus oeta (Plötz, 1884), Oeta Sootywing, Costa Rica to Bolivia and Argentina
- Staphylus parvus Steinhauser & Austin, 1993, Parvus Sootywing, Costa Rica
- Staphylus evemerus Godman & Salvin, 1896, Evemerus Sootywing, Nicaragua to Panama
- Staphylus huigra huigra (R. Williams & E. Bell, 1940), Huigra Sootywing, El Salvador, Ecuador to Bolivia
- Staphylus iguala (R. Williams & E. Bell, 1940), Iguala Sootywing , W & S Mexico

Staphylus cartagoa (R. Williams & E. Bell, 1940), Cartagoa Sootywing, Costa Rica, El Salvador

Staphylus esmeraldus L. Miller, 1966, Esmeraldus Sootywing, E Costa Rica

Pholisora catullus (Fabricius, 1793), Common Sootywing, widespread in USA and S Canada, S to Colima and Hidalgo...S to Oaxaca

Pholisora mejicanus (Reakirt, [1867]), Mexican Sootywing, S-C Colorado to Oaxaca

Hesperopsis alpheus oricus (W. H. Edwards, 1879), Saltbush Sootywing, E & S CA, NV, SW UT, NW AZ

Hesperopsis alpheus alpheus (W. H. Edwards, 1876), Saltbush Sootywing, [= texana], S AZ, NM, CO, far S MT, TX (verification needed for NE Mexico)

Hesperopsis graciellae (MacNeill, 1970), MacNeill's Sootywing, lower Colorado River drainage, Wa Co., UT to SON + Baja

Hesperopsis libya joaquina J. Emmel, T. Emmel & Mattoon, 1998, Mojave Sootywing, S San Joaquin Valley, CA

Hesperopsis libya libya (Scudder, 1878), Mojave Sootywing, Mojave Desert, CA- S NV-AZ

Hesperopsis libya (Scudder, 1878) (Great Basin segregate), Mojave Sootywing, SE OR, SW ID, most of NV, E CA

Hesperopsis libya confertiblanca Scott, 1981, Mojave Sootywing, [perhaps a synonym of lena], W CO, far NW NM, UT?, N AZ?

Hesperopsis libya lena (W. H. Edwards, 1882), Mojave Sootywing, W ND, E MT, WY, UT?

Tribe Erynnini Brues & F. Carpenter, 1932

Gorgythion begga pyralina (Möschler, 1877), Variegated Skipper, S TX to Guianas and Bolivia

Gorgythion vox Evans, 1953, Crab's-claw Skipper, E Mexico to Costa Rica

Gorgythion beggina escalophoides Evans, 1953, Beggina Skipper, Costa Rica to Argentina

Sostrata grippa Evans, 1953, Grippa Skipper, Costa Rica to Ecuador and Bolivia

Sostrata nordica Evans, 1953, Blue-studded Skipper, S TX to Costa Rica

Sostrata bifasciata leucorrhoea Godman & Salvin, 1895, Metal-studded Skipper, Costa Rica to Colombia

Sostrata pusilla pusilla Godman & Salvin, 1895, Pusilla Skipper, Nicaragua to upper Amazon



- Potamanaxas unifasciata (C. Felder & R. Felder, 1867), Felder's Skipper, SE Mexico to Ecuador and Peru
- Potamanaxas xantholeuce (Mabille, 1888), Xantholeuce Skipper, Panama
- Potamanaxas thoria (Hewitson, 1870), Thoria Skipper, Nicaragua to Peru
- Potamanaxas melicertes (Godman & Salvin, 1895), Melicertes Skipper, Costa Rica to Ecuador
- Potamanaxas hirta paphos Evans, 1953, Hirta Skipper, Costa Rica to Ecuador
- Potamanaxas effusa confusa (Draudt, 1922), Effusa Skipper, Panama, Colombia
- Potamanaxas thestia cranda Evans, 1953, Thestia Skipper, Costa Rica
- Potamanaxas latrea latrea (Hewitson, 1875), Latrea Skipper, Nicaragua
- Potamanaxas latrea caliadne (Godman & Salvin, 1895), Latrea Skipper, Costa Rica
- Mylon lassia (Hewitson, 1868), Bold Mylon, E & W Mexico to Guianas and Trinidad
- Mylon zephus zephus (Butler, 1870), Zephus Mylon, Hypothetical for Panama
- Mylon orsa Evans, 1953, Orsa Mylon, Costa Rica
- Mylon salvia Evans, 1953, Evans' Mylon, (Mexico?), Guatemala to Colombia
- Mylon ander ander Evans, 1953, Narrow-winged Mylon, SE Mexico to S Brazil
- Mylon maimon (Fabricius, 1775), Common Mylon, [= menippus], E & W Mexico to Argentina
- Mylon cajus hera Evans, 1953, Cryptic Mylon, (SE Mexico?), Guatemala to Panama
- Mylon pelopidas (Fabricius, 1793), Pale Mylon, SE AZ (one-time stray), E & W Mexico to Paraguay
- Mylon jason (Ehrmann, 1907), Jason's Mylon, (SE Mexico?), Guatemala to S Brazil and Paraguay
- Mylon cristata Austin, 2000, Austin's Mylon, Campeche, Chiapas and Guatemala
- Grais stigmaticus stigmaticus (Mabille, 1883), Hermit Skipper, C & S TX (as stray), E & W Mexico to Argentina
- Grais stigmaticus juncta Evans, 1953, 'Jamaican' Hermit Skipper, Jamaica
- Timochares ruptifasciata (Plötz, 1884), Brown-banded Skipper, SE AZ / SW NM, S TX to Chiapas and Belize
- Timochares runia Evans, 1953, Jamaican-banded Skipper, Jamaica
- Timochares trifasciata trifasciata (Hewitson, 1868), Many-banded Skipper, E & W Mexico to S Brazil and Paraguay

Anastrus sempiternus sempiternus (Butler & H. Druce, 1872), Common *Anastrus*, S TX (one-time stray), E & W Mexico to Venezuela and Ecuador

Anastrus sempiternus dilloni (E. Bell & W. Comstock, 1948), Common *Anastrus*, Jamaica, Hispaniola, Cuba

Anastrus tolimus tolimus (Plötz, 1884), Blurry *Anastrus*, E Mexico to Ecuador

Anastrus luctuosus (Godman & Salvin, 1894), West-Mexican *Anastrus*, [= Mexican "robigus"], W Mexico

Anastrus petius peto Evans, 1953, Peto Skipper, Guatemala to Costa Rica

Anastrus meliboea meliboea (Godman & Salvin, 1894), Scarce *Anastrus*, (SE Mexico?), Costa Rica to Colombia

Anastrus neaeris neaeris (Möschler, 1879), Brilliant *Anastrus*, S Mexico to Venezuela and Ecuador

Anastrus neaeris narva Evans, 1953, Brilliant *Anastrus*, Panama to Bolivia and E-C Brazil

Anastrus virens albopannus Austin, 2002, Austin's *Anastrus*, SE Mexico (OAX) to Panama

Tosta gorgus (E. Bell, 1937), Gorgus Skipper, Belize, Costa Rica

Tosta platypterus (Mabille, 1895), *Platypterus* Skipper, SE Mexico to Panama

Tosta niger (R. Williams & E. Bell, 1940), Colombian Skipper, Costa Rica to Colombia

Ebrietas osyris (Staudinger, 1876), Yellow-patched Bent-Skipper, SE Mexico to Venezuela and Ecuador

Ebrietas badia (Plötz, 1884), Badia Bent-Skipper, Costa Rica to Bolivia

Ebrietas anacreon anacreon (Staudinger, 1876), Common Bent-Skipper, E & W Mexico to Argentina

Ebrietas sappho Steinhauser, 1974, Sappho Bent-Skipper, E Mexico to Costa Rica

Ebrietas evanidus Mabille, 1898, Blurred Bent-Skipper, SE Mexico to Peru and upper Amazon

Ebrietas elaudia livius Mabille, 1898, Plain Bent-Skipper, SE Mexico (TAB, CHIS) to Bolivia

Ebrietas elaudia elaudia (Plötz, 1884), Elaudia Bent-Skipper, Panama, Colombia, Venezuela

Helias cama Evans, 1953, Squared Bent-Skipper, E Mexico to Colombia

Helias godmani (Mabille & Boulet, 1917), Godman's Bent-Skipper, Costa Rica to Ecuador

Helias phalaenoides phalaenoides Fabricius, 1807, Fabricius' Bent-Skipper, Panama to Bolivia

Camptopleura theramen Mabille, 1877, Mabille's Bent-Skipper, SE Mexico to Bolivia and Brazil

- Camptopleura auxo (Möschler, 1879), Auxo Bent-Skipper, SE Mexico to S Brazil & Paraguay
- Camptopleura oaxaca H. Freeman, 1969, Oaxacan Bent-Skipper, SE Mexico (Oaxaca)
- Camptopleura impressus (Mabille, 1889), Impressive Bent-Skipper, Panama to Minas Gerais
- Cycloglypha thrasibulus thrasibulus (Fabricius, 1793), Widespread Bent-Skipper, E & W Mexico to S Brazil & Paraguay
- Cycloglypha tisas (Godman & Salvin, 1896), Tisas Bent-Skipper, SE Mexico (OAX) to S Brazil
- Cycloglypha enega (Möschler, 1877), Enega Bent-Skipper, Nicaragua to Bolivia and S Brazil
- Theagenes aegides (Herrich-Schäffer, 1869), White-centered Bent-Skipper, E & W Mexico to Panama
- Chiomara georgina georgina (Reakirt, 1868), White-patched Skipper, SE AZ & S TX, E & W Mexico to Costa Rica
- Chiomara georgina pelagica (Weeks, 1891), White-patched Skipper, Baja California
- Chiomara (asychis) simon Evans, 1953, White-patterned Skipper, Costa Rica to Venezuela, Trinidad
- Chiomara (asychis) vincenta Evans, 1953, White-patterned Skipper, St. Vincent
- Chiomara (asychis) grenada Evans, 1953, White-patterned Skipper, St. Lucia, Grenadines, Grenada
- Chiomara mithrax (Möschler, 1879), Mithrax Duskywing, S AZ (rare stray) W & E Mexico to Argentina, Cuba
- Gesta invisus (Butler & H. Druce, 1872), False Duskywing, C & S TX to Costa Rica
- Gesta gesta (Herrich-Schäffer, 1863), Impostor Duskywing, Greater Antilles, Costa Rica to Argentina
- Ephyriades zephodes (Hübner, [1825]), Zephodes Duskywing, Cuba, Hispaniola
- Ephyriades arcas arcas (Drury, 1773), Caribbean Duskywing, northern Leeward Islands
- Ephyriades arcas philemon (Fabricius, 1775), Caribbean Duskywing, Greater Antilles
- Ephyriades brunnea floridensis E. Bell & W. Comstock, 1948, Florida Duskywing, S Florida
- Ephyriades brunnea brunnea (Herrich-Schäffer, 1865), 'Cuban' Florida Duskywing, Cuba, Isla de Juventud, Bahamas
- Ephyriades brunnea jamaicensis (Möschler, 1879), 'Jamaican' Florida Duskywing, Jamaica
- Ephyriades brunnea dominicensis E. Bell & W. Comstock, 1948, 'Lesser Antillean' Florida Duskywing, Dominica and Guadeloupe
- "Ephyriades" eugramma (Mabille, 1888), Chiriqui Skipper, Costa Rica and Panama

Erynnis mercurius (Dyar, 1926), Mexican Duskywing, S-C Mexico (MEX, DF)

Erynnis icelus (Scudder & Burgess, 1870), Dreamy Duskywing, widespread in USA and Canada

Erynnis brizo somnus (Lintner, 1881), 'Florida' Sleepy Duskywing, Peninsular Florida

Erynnis brizo brizo (Boisduval & Le Conte, [1837]), Sleepy Duskywing, SE Canada, E USA, possibly far NE Mexico

Erynnis brizo burgessi (Skinner, 1914), 'Rocky Mountain' Sleepy Duskywing, S Rocky Mountain states, W TX, far SE CA, USA, far NW Mexico

Erynnis brizo muelleri (Draudt, 1923), 'White-fringed' Sleepy Duskywing, C & W Mexico

Erynnis brizo lacustra (W. G. Wright, 1905), 'Lacustra' Sleepy Duskywing, Baja California Norte, S & C CA

Erynnis juvenalis juvenalis (Fabricius, 1793), Juvenal's Duskywing, E USA, SE Canada, far NE Mexico (COAH)

Erynnis (juvenalis) clitus (W. H. Edwards, 1883), Clitus Duskywing, SE AZ, SW NM, W TX, E & W Mexico to Chiapas

Erynnis telemachus Burns, 1960, Rocky Mountain Duskywing, E NV, UT, AZ, NM, CO, far S-C WY, W TX

Erynnis propertius (Scudder & Burgess, 1870), Propertius Duskywing, Cascades-Sierra Nevada, westward, S BC to northern Baja

Erynnis meridianus meridianus E. Bell, 1927, Meridian Duskywing, S NV, SW UT, AZ, NM, C & W TX, far N Mexico

Erynnis meridianus fieldi Burns, 1964, 'White-fringed' Meridian Duskywing, C Mexico

Erynnis scudderi (Skinner, 1914), Scudder's Duskywing, SE AZ, SW NM, W TX to Guatemala

Erynnis horatius (Scudder & Burgess, 1870), Horace's Duskywing, (far SE UT, far NE AZ), CO, NM, E USA, far NE Mexico (TAMPS)

Erynnis tristis tristis (Boisduval, 1852), Mournful Duskywing, CA and Baja California Norte

Erynnis tristis tatus (W. H. Edwards, 1883), 'Mexican' Mournful Duskywing, AZ, S NM, W & S TX to Colombia

Erynnis tristis pattersoni Burns, 1964, 'Dark-fringed' Mournful Duskywing, Baja California Sur

Erynnis martialis (Scudder, [1870]), Mottled Duskywing, MN to NH, S to N FL, W to C TX, CO, N NM W NE, W SD

Erynnis pacuvius pacuvius (Lintner, 1878), Pacuvius Duskywing, S UT, S CO, AZ, NM to Oaxaca

Erynnis pacuvius lilius (Dyar, 1904), 'Northwestern' *Pacuvius Duskywing*, NW CO, N UT, W WY, MT, ID, BC, WA, OR, W NV, N & E CA

Erynnis pacuvius pernigra (F. Grinnell, 1905), 'Bay Area' *Pacuvius Duskywing*, San Francisco Bay area, C CA

Erynnis pacuvius callidus (F. Grinnell, 1904), 'Californian' *Pacuvius Duskywing*, S CA coast ranges to Baja California (norte)

Erynnis zarucco (Lucas, 1857), *Zarucco Duskywing*, SE USA (OK-NC-FL), Cuba, Hispaniola

Erynnis funeralis (Scudder & Burgess, 1870), *Funereal Duskywing*, S CA, S AZ, S NM, TX S to Argentina (as resident); strays widely

Erynnis baptisiae (W. Forbes, 1936), *Wild Indigo Duskywing*, E USA (far S Ontario) to N FL

Erynnis lucilius (Scudder & Burgess, 1870), *Columbine Duskywing*, NE USA, SE Canada

Erynnis afranius (Lintner, 1878) (Typical segregate), *Afranius Duskywing*, SE ALTA, S SASK to N Mexico

Erynnis afranius (Lintner, 1878) (BCN segregate), *Afranius Duskywing*, SW CA and Baja California (norte)

Erynnis afranius (Lintner, 1878) (SE Mexican segregate), 'White-fringed' *Afranius Duskywing*, SE Mexico (Puebla and Mexico States)

Erynnis persius persius (Scudder, 1863), *Persius Duskywing*, NE USA

Erynnis persius borealis (M. Cary, 1906), *Persius Duskywing*, most of W Canada, possibly S along Cascades (& W) to N CA

Erynnis persius avinoffi (W. Holland, 1930), *Persius Duskywing*, YT, Alaska

Erynnis persius fredericki H. Freeman, 1943, *Persius Duskywing*, Rocky Mountain region, USA, possibly S SASK, S ALTA

Tribe Achlyodidini Burmeister, 1878

Aethilla lavochrea Butler, 1872, *Yellow-rimmed Skipper*, E & W Mexico to Colombia

Aethilla echina echina Hewitson, 1870, *Echina Skipper*, SE Mexico to S Brazil

Aethilla chiapa H. Freeman, 1969, *Highlands Skipper*, Oaxaca, Chiapas, Guatemala

Achlyodes busirus heros Ehrmann, 1909, *Giant Sicklewing*, E & W Mexico to Bolivia

Achlyodes pallida (R. Felder, 1869), *Pale Sicklewing*, [= selva], W Mexico & S Texas (as stray) to Bolivia

Eantis tamenund (W. H. Edwards, 1871), Northern Sicklewing (Sickle-winged Skipper), C & S Texas (further N as strays) to N Belize and Guatemala

Eantis thraso (Hübner, [1807]), Southern Sicklewing, SW Chiapas, S Belize, Guatemala to Argentina

Eantis mithridates (Fabricius, 1793), Jamaican Sicklewing, Jamaica

Eantis papinianus (Poey, 1832), Cuban Sicklewing, [= *sagra*], Cuba, Hispaniola

Eantis minor (W. Comstock, 1944), Lesser Sicklewing, Puerto Rico to Dominica and Guadeloupe

Eantis munroei (E. Bell, 1956), Munroe's Sicklewing, Cuba,XXXXX

Doberes hewitsonius (Reakirt, [1867]), Pale Doberes , S Mexico

Doberes anticus (Plötz, 1884) (Typical segregate), Dark Doberes, SE Mexico (VER, OAX, CHIS)

Doberes anticus (Plötz, 1884) (Pale segregate), Dark Doberes, S Mexico (Chiapas) to Costa Rica

Doberes sobrinus (Godman & Salvin, 1895), West-Mexican Doberes, W Mexico (Guerrero)

Ouleus cyrna (Mabille, 1895), Hidden-yellow Skipper, Chiapas to Panama

Ouleus bubaris (Godman & Salvin, 1895), Bubaris Skipper, SE Mexico, Guatemala

Ouleus calavius (Godman & Salvin, 1865), Calavius Skipper, SE Mexico to Panama

Ouleus salvina Evans, 1953, Salvin's Skipper, E Mexico to Costa Rica

Ouleus panna Evans, 1953, Panna Skipper, Guatemala to Colombia

Ouleus dilla baru Nicolay, 1973, Dilla Skipper, Costa Rica and Panama

Ouleus negrus negrus Nicolay, 1980, Negrus Skipper, Costa Rica and Panama

Zera belti (Godman & Salvin, 1894), Belti Skipper, Chiapas to Nicaragua

Zera zera (Butler, 1870), Zera Skipper, Costa Rica to Venezuela, Ecuador and S Brazil

Zera difficilis (Weeks, 1901), Difficult Skipper, Chiapas, Guianas and upper Amazon

Zera nolckeni (Mabille, 1891), Nolcken's Skipper, Panama to Bolivia (not in Mexico)

Zera hosta Evans, 1953, Hosta Skipper, Chiapas to Colombia

Zera phila (Godman & Salvin, 1894), Phila Skipper, Panama to Peru and Bolivia

Zera hyacinthinus hyacinthinus (Mabille, 1877), Bruised Skipper, E & W Mexico to Colombia

Zera tetrastigma tetrastigma (Sepp, [1847]), Tetrastigma Skipper, Chiapas to Guianas, Trinidad, upper Amazon

Zera eboneus (E. Bell, 1947), *Eboneus* Skipper, SE Mexico

Quadrus cerialis (Stoll, 1782), Common Blue-Skipper, E & W Mexico to Argentina

Quadrus francesius H. Freeman, 1969, Chiapan Blue-Skipper, S Mexico (Chiapas) to Costa Rica

Quadrus contubernalis contubernalis (Mabille, 1883), Striped Blue-Skipper, SE Mexico to upper Amazon

Quadrus contubernalis anicius (Godman & Salvin, 1894), 'Guatemalan' Striped Blue-Skipper, SE Mexico, Guatemala

Quadrus lugubris lugubris (R. Felder, 1869), Tanned Blue-Skipper, E & W Mexico to Costa Rica

Gindanes brontinus brontinus Godman & Salvin, 1895, Straight-edged Skipper, E & W Mexico to Costa Rica

Gindanes brebisson panaetius Godman & Salvin, 1895, White-trailed Skipper, SE Mexico to Panama

Pythonides jovianus amaryllis Staudinger, 1876, Variable Blue-Skipper, SE Mexico to Ecuador and Peru

Pythonides jovianus jovianus (Stoll, 1782), Variable Blue-Skipper, Guatemala, Colombia, Guianas, Trinidad, upper Amazon

Pythonides grandis assecla Mabille, 1883, Many-spotted Blue-Skipper, SE Mexico to upper Amazon (Peru)

Pythonides proxenus (Godman & Salvin, 1895), Proxenus Blue-Skipper, SE Mexico to Venezuela and Ecuador

Pythonides herennius herennius Geyer, [1838], Herennius Blue-Skipper, Panama to Peru and lower Amazon

Pythonides pteris (Godman & Salvin, 1895), Narrow-winged Blue-Skipper, Chiapas to Colombia

Pythonides mundo H. Freeman, 1979, Freeman's Blue-Skipper, S Mexico (OAX)

Pythonides rosa Steinhauser, 1989, Steinhauser's Blue-Skipper, S Mexico (CHIS)

Haemactis sp., Red-washed Skipper, Nicaragua and Costa Rica

Atarnes sallei (C. Felder & R. Felder, 1867), Orange-spotted Skipper, E & W Mexico to Colombia

Milanion hemes hemes (Cramer, 1777), Hemes Skipper, Costa Rica to Guianas and Trinidad

Milanion marciana Godman & Salvin, 1895, Marciana Skipper, Costa Rica to Colombia

Paramimus stigma stanna Evans, 1953, Stigma Skipper, Panama, (Colombia)

Tribe Pyrgini Burmeister, 1878

Clito aberrans (Draudt, 1924), Northern Clito, ["clito"], S & W Mexico to S Brazil

Clito zelotes (Hewitson, 1873), Hewitson's Clito, SE Mexico (VER) to French Guiana and upper Amazon

Eracon biternata (Mabille, 1889), Biternata Skipper, Costa Rica and Panama

Eracon clinias (Mabille, 1878), Clinias Skipper, Costa Rica to upper and lower Amazon

Eracon lachesis (Dyar, 1918), Lachesis Skipper, S Mexico to Panama

Eracon paulinus (Stoll, 1782), Tear-drop Skipper, Costa Rica to Guiana and upper Amazon

Eracon mnemon (Schaus, 1913), Horseshoe-spotted Skipper, Costa Rica

Spioniades abbreviata abbreviata (Mabille, 1888), White-tipped Skipper, Nicaragua to Colombia

Spioniades artemides (Stoll, 1782), Artemides Skipper, Panama to S Brazil

Paches loxus gloriosus Röber, 1925, Glorious Blue-Skipper, [= *zonula*], SE Mexico to Costa Rica

Paches loxus loxus (Westwood, 1852), Glorious Blue-Skipper, Panama to Venezuela, Ecuador, N Brazil

Paches polla (Mabille, 1888), Polla Blue-Skipper, E & W Mexico to Costa Rica

Carrhenes fuscescens fuscescens (Mabille, 1891), Tanned Hoary-Skipper, E & W Mexico to Costa Rica

Carrhenes calidius Godman & Salvin, 1895, Rain-forest Hoary-Skipper, SE Mexico to Bolivia

Carrhenes canescens canescens (R. Felder, 1869), Hoary Skipper, W Mexico & S TX to Panama

Carrhenes leada (Butler, 1870), Butler's Hoary-Skipper, Costa Rica to Bolivia and S Brazil

Carrhenes callipetes Godman & Salvin, 1895, Cloud-forest Hoary-Skipper, S Mexico and Guatemala

Carrhenes meridensis Godman & Salvin, 1895, Costa Rican Hoary-Skipper, Nicaragua to Colombia and Venezuela

Zobera albopunctata H. Freeman, 1970, Coliman Zobera, W Mexico (Colima)

Zobera marginata H. Freeman, 1979, Western Zobera, W Mexico (NAY, MICH, OAX)

Zobera oaxaquena Steinhauser, 1991, Oaxacan Zobera, S Mexico (OAX)

- Xenophanes tryxus (Cramer, 1780), Glassy-winged Skipper , S Texas (as stray) to Argentina
- Diaeus varna Evans, 1953, Camouflaged Skipper , E Mexico to Panama
- Onenses hyalophora (R. Felder, 1869), Crystal-winged Skipper, E Mexico to Guatemala
- Antigonus nearchus (Latreille, 1817), Large Spurwing, E & W Mexico to S Brazil and Paraguay
- Antigonus erosus (Hübner, [1812]), Common Spurwing , W Mexico & S TX (rare stray) to S Brazil and Paraguay
- Antigonus emorsa (R. Felder, 1869), White Spurwing, W Mexico (SE AZ as rare stray, SON to OAX)
- Antigonus funebris (R. Felder, 1869), West-Mexican Spurwing, W & S Mexico
- Antigonus corrosus Mabille, 1878, Small Spurwing, E Mexico to Panama
- Systasea microsticta Dyar, 1923, Rare Spurwing, S Mexico (GRO, MOR, PUE, OAX)
- Systasea pulverulenta (R. Felder, 1869), Texas Powdered-Skipper, S AZ, S NM, C & S TX to Guatemala
- Systasea zampa (W. H. Edwards, 1876), Arizona Powdered-Skipper, Baja, far S CA, S NV, S AZ, S NM, W TX, SON, CHIH, COAH
- Celotes nessus (W. H. Edwards, 1877), Common Streaky-Skipper , far SE CA, S AZ, NM, S OK, TX, N Mexico
- Celotes limpia Burns, 1974, West-Texas Streaky-Skipper, W TX to Coahuila
- Celotes spurcus A. Warren, Steinhäuser, Hernández-Mejía & Grishin, 2008, Mexican Streaky-Skipper, Central Mexico
- Zopyrion sandace Godman & Salvin, 1896, Sandy Skipper, E & W Mexico to Costa Rica
- Timochreon satyrus satyrus (C. Felder & R. Felder, 1867), Satyr Skipper, Costa Rica to upper Amazon
- Anisochoria bacchus Evans, 1953, Northern Snout-Skipper, SE Mexico to El Salvador
- Anisochoria pedaliodina polysticta Mabille, 1876, Central American Snout-Skipper, Costa Rica to Guianas
- Pyrgus centaureae wyandot (W. H. Edwards, 1863), Grizzled Skipper, E & NE USA
- Pyrgus centaureae freija (B. Warren, 1924), Grizzled Skipper, boreal N America
- Pyrgus centaureae loki Evans, 1953, Grizzled Skipper, Rocky Mountains
- Pyrgus ruralis ruralis (Boisduval, 1852), Two-banded Checkered-Skipper, NW CO, UT, W WY, W MT, SW ALTA, S BC to C CA

Pyrgus ruralis lagunae Scott, 1981, Two-banded Checkered-Skipper, Laguna Mts., San Diego Co., CA

Pyrgus xanthus W. H. Edwards, 1878, Mountain Checkered-Skipper, S UT, N & E AZ, NM, S-C & SW CO

Pyrgus scriptura scriptura (Boisduval, 1852), Small Checkered-Skipper, at least San Francisco Bay area, CA

Pyrgus scriptura apertorum Austin, 1998, Small Checkered-Skipper, most of range, ALTA to Zacatecas

Pyrgus communis communis (Grote, 1872), Common Checkered-Skipper, widespread in USA & S Canada, S to Oaxaca

Pyrgus communis (Grote, 1872) (high-elevation Cascades-Sierra Nevada), Common Checkered-Skipper, high elevation C Cascades, OR, & N Sierra Nevada, CA

Pyrgus communis (Grote, 1872) (W Oregon segregate), Common Checkered-Skipper, W Oregon, N CA Siskiyou

Pyrgus albescens Plötz, 1884, White Checkered-Skipper, S USA (CA to SC), S to Oaxaca

Pyrgus adepta Plötz, 1884, Central American Checkered-Skipper, E & W Mexico to Colombia

Pyrgus oileus (Linnaeus, 1767), Tropical Checkered-Skipper, SE AZ, SW NM, S TX to GA, S to Costa R., Gr. & Lesser Antilles

Pyrgus orcus (Stoll, 1780), Orcus Checkered-Skipper, Oaxaca and Chiapas to Argentina, Trinidad to Dominica

Pyrgus philetas W. H. Edwards, 1881, Desert Checkered-Skipper, S AZ to S TX, S to Chiapas

Pyrgus crisia (Herrich-Schäffer, 1865), Antillean Checkered-Skipper, Cuba and Hispaniola

Heliopyrgus domicella domicella (Erichson, [1849]), Erichson's White-Skipper, S CA & S NV to S TX, S to Venezuela

Heliopyrgus sublinea (Schaus, 1902), East-Mexican White-Skipper, S TX & E Mexico to Yucatan Peninsula

Heliopetes ericetorum (Boisduval, 1852), Northern White-Skipper, Baja California (norte), CA, Columbia Basin, Great Basin, AZ

Heliopetes laviana laviana (Hewitson, 1868), Laviana White-Skipper, S AZ and Baja California, C & S TX, most of Mexico to Venez.

Heliopetes macaira macaira (Reakirt, [1867]), Turk's-cap White-Skipper, S TX, E & W Mexico to Panama

Heliopetes omrina (Butler, 1870), Stained White-Skipper, Panama to Argentina

Heliopetes arsalte (Linnaeus, 1758), Veined White-Skipper, S TX, E & W Mexico to Argentina

Heliopetes alana (Reakirt, 1868), Alana White-Skipper, E & W Mexico to Argentina

Subfamily Heteropterinae Aurivillius, 1925, Skipperlings,

Carterocephalus palaemon mesapano (Scudder, 1868), Arctic Skipperling, New England, NE Canadian Provinces

Carterocephalus palaemon mandan (W. H. Edwards, 1863), Arctic Skipperling, SE SASK through Great Lakes region

Carterocephalus palaemon (Pallas, 1771) (S Rocky Mountain segregate), Arctic Skipperling, NW WY to ALTA

Carterocephalus palaemon skada (W. H. Edwards, 1870), Arctic Skipperling, Alaska to N CA

Carterocephalus palaemon magnus Mattoon & Tilden, 1998, Arctic Skipperling, coastal Sonoma Co., CA

Dalla bubobon (Dyar, 1921), Bubobon Skipperling, S-C Mexico (COL, MICH, GRO)

Dalla freemani A. Warren, 1997, Freeman's Skipperling, Guatemala

Dalla austini A. Warren, 2011, Austin's Skipperling, Chiapas, Mexico

Dalla steinhauseri H. Freeman, 1991, Steinhauser's Skipperling, E Oaxaca

Dalla pulchra (Godman, 1900), Costa Rican Skipperling, Costa Rica

Dalla ligilla (Hewitson, 1877), Ligilla Skipperling, W (JAL) & S Mexico to Costa Rica

Dalla dividuum (Dyar, 1913), Dyar's Skipperling, W Mexico: SON to CHIS

Dalla frater (Mabille, 1878), Frater Skipperling, Panama to Bolivia

Dalla octomaculata (Godman, 1900), Eight-spotted Skipperling, Costa Rica

Dalla eryonas (Hewitson, 1877), Central American Skipperling, Costa Rica to Colombia

Dalla mentor Evans, 1955, Guerrero Skipperling, Guerrero and Oaxaca

Dalla kemneri Steinhauser, 1991, Pelon Skipperling, Oaxaca and Puebla

Dalla lalage (Godman, 1900), Godman's Skipperling, SW Mexico (CHIS, GRO, OAX)

Dalla lethaea (Schaus, 1913), Schaus' Skipperling, S Mexico (CHIS, GRO, OAX, PUE) to Costa Rica

Dalla faula (Godman, 1900), West-Mexican Skipperling, W Mexico: SON to MICH and PUE

- Dalla lysis (Schaus, 1913), Lysis Skipperling, Costa Rica
- Dalla diraspes (Hewitson, 1877), Widespread Skipperling, Costa Rica to S Brazil
- Dalla ramirezi H. Freeman, 1969, Gold-rayed Skipperling, S Mexico (OAX, PUE, VER) to Guatemala
- Dalla nubes Steinhauser, 1991, Chiapan Skipperling, S Mexico: Oaxaca and Chiapas
- Piruna aea mexicana H. Freeman, 1979, Many-spotted Skipperling, [= cingo], NW Mexico to SE AZ
- Piruna aea aea (Dyar, 1912), Many-spotted Skipperling, C & S Mexico to Guatemala
- Piruna brunnea (Scudder, 1872) complex, Chocolate Skipperling, E and S Mexico to Costa Rica
- Piruna ceracates (Hewitson, 1874), Veracruz Skipperling, S Mexico: Veracruz and Oaxaca
- Piruna pirus (W. H. Edwards, 1878), Russet Skipperling, W USA: SE ID, W & S WY, CO, UT, AZ, NM, (W TX?)
- Piruna cyclosticta (Dyar, 1920), Plateau Skipperling, Mexican Plateau to DF and MOR
- Piruna dampfi (E. Bell, 1942), Violet-dusted Skipperling, SW & Transvolcanic Mexico: GRO, MICH, MEX, VER
- Piruna gyrans (Plötz, 1884), Variable Skipperling, W, C & S Mexico to Oaxaca
- Piruna haferniki H. Freeman, 1970, Chisos Skipperling, W TX to Hidalgo
- Piruna jonka Steinhauser, 1991, Oaxacan Skipperling, S Mexico: Oaxaca, Puebla
- Piruna kemneri H. Freeman, 1990, Kemner's Skipperling, S Mexico: Oaxaca, Puebla
- Piruna maculata H. Freeman, 1970, Sinaloan Skipperling, NW Mexico: Durango and Sinaloa
- Piruna microsticta (Godman, 1900), Southwest-Mexican Skipperling, [= ajijiciensis], SW Mexico: JAL to CHIS
- Piruna millerorum Steinhauser, 1991, Millers' Skipperling, NW Mexico: DGO, SIN, SON, CHIH
- Piruna mullinsi H. Freeman, 1991, Mullins' Skipperling, S Mexico: Oaxaca, Puebla
- Piruna penaea Dyar, 1918 (Typical segregate), Hour-glass Skipperling, W Mexico to Oaxaca
- Piruna penaea Dyar, 1918 (E Mexican segregate), Hour-glass Skipperling, S TX (one-time stray), E Mexico to Chiapas
- Piruna polingii (W. Barnes, 1900) complex, Four-spotted Skipperling, C AZ, S NM to Guerrero and Puebla
- Piruna purepecha Warren & González-Cota, 1999, Purepecha Skipperling, SW Mexico: COL, GRO, JAL, MICH, MOR

Piruna roeveri (L. Miller & J. Miller, 1972) complex, Roever's Skipperling, E & S Mexico: Coahuila to Oaxaca

Piruna sina H. Freeman, 1970, Fine-spotted Skipperling, NW Mexico: DGO, SIN, SON

Dardarina dardaris (Hewitson, 1877), Dardaris Skipperling, NW Mexico (SON) to Costa Rica

Subfamily Hesperinae Latreille, 1809, Grass-Skippers,

Tribe Incertae Sedis

Erionota thrax thrax (Linnaeus, 1767), Banana Skipper, Introduced to Hawaii

Perichares philetes (Gmelin, [1790]), Caribbean Ruby-eye , Greater Antilles

Perichares adela (Hewitson, 1867), Green-backed Ruby-eye , S TX (uncommon), E & W Mexico to S Brazil

Perichares aurina Evans, 1955, Evans' Ruby-eye , [Honduras?], S Brazil & Paraguay

Perichares poaceaphaga Burns, 2008, Grass-feeding Ruby-eye, Costa Rica

Perichares geonomaphaga Burns, 2008, Geonoma-feeding Ruby-eye, Costa Rica

Perichares prestoeaphaga Burns, 2008, Prestoea-feeding Ruby-eye, Costa Rica

Perichares lotus (Butler, 1870), Lotus Ruby-eye, SE Mexico S Brazil & Paraguay

Perichares deceptus deceptus (Butler & H. Druce, 1872), Flasher Ruby-eye, El Salvador to Costa Rica

Perichares seneca crotona (Hewitson, 1866), Seneca Ruby-eye, Panama, Venezuela

Orses cynisca (Swainson, 1821), Yellow-edged Ruby-eye, E & W Mexico to S Brazil & Paraguay

Alera haworthiana (Swainson, 1821), Green-banded Ruby-eye, Panama to S Brazil

Lycas argentea (Hewitson, 1866), Silvered Ruby-eye, E & W Mexico to Argentina

Pyrrhopygopsis agaricon agaricon H. Druce, 1908, Agaricon Skipper, E Costa Rica, Colombia

Tribe Megathymini J. H. Comstock & A. Comstock, 1895, Giant-Skippers,

Megathymus yuccae yuccae (Boisduval & Le Conte, [1837]), Yucca Giant-Skipper, [= *buchholzi*], SE USA, E of Mississippi River

Megathymus yuccae reinthali H. Freeman, 1963, Yucca Giant-Skipper, [= *kendalli*], C to NE TX, C & E OK, SW AR, N & C LA

Megathymus yuccae wilsonorum D. Stallings & Turner, 1958, Yucca Giant-Skipper, Tamaulipas & far S TX (lower Rio Grande Valley)

Megathymus yuccae louiseae H. Freeman, 1963, Yucca Giant-Skipper, S-C TX (Val Verde, Kinney Cos) to NE Mexico (COAH, NL)

Megathymus yuccae coloradensis C. Riley, 1878, Yucca Giant-Skipper, SE WY, W NE, W KS, E CO, E NM, W OK, TX panhandle

Megathymus yuccae reubeni D. Stallings, Turner & V. Stallings, 1963, Yucca Giant-Skipper, Hueco Mts., Hudspeth Co., TX, to N Chihuahua

Megathymus yuccae navajo Skinner, 1911, Yucca Giant-Skipper, [= *arizonae*], W CO, S UT, W NM, AZ, N Sonora

Megathymus yuccae martini D. Stallings & Turner, 1956, Yucca Giant-Skipper, Mohave Desert, S CA, W NV, far NW AZ

Megathymus yuccae harbisoni J. Emmel & T. Emmel, 1998, Yucca Giant-Skipper, Beaumont, Riverside Co. CA, S to Baja California Norte

Megathymus beulahae beulahae D. Stallings & Turner, 1958, Broad-banded Giant-Skipper, Hidalgo

Megathymus beulahae gayleae D Stallings, Turner & V. Stallings, 1963, Broad-banded Giant-Skipper, COAH, NL, TAMPS, SLP

Megathymus ursus ursus Poling, 1902, Ursine Giant-Skipper, S AZ (Pinal, Pima, Sta. Cruz, Cochise), SW NM (Hidalgo), SON

Megathymus ursus deserti R. Wielgus, J. Wielgus & D. Wielgus, 1972, Ursine Giant-Skipper, E Maricopa Co., AZ

Megathymus ursus violae D. Stallings & Turner, 1956, Ursine Giant-Skipper, C & S NM (E of Rio Grande), W TX, COAH, NL

Megathymus cofaqui cofaqui (Strecker, 1876), Cofaqui Giant-Skipper, [= *harrisi*], Georgia to NC

Megathymus cofaqui slotteni Gatrell, 1999, Cofaqui Giant-Skipper, Florida

Megathymus streckeri texana W. Barnes & McDunnough, 1912, Strecker's Giant-Skipper, S-C Texas

Megathymus streckeri leussleri W. Holland, 1931, Strecker's Giant-Skipper, TX panhandle & E NM, to E MT, W ND, (SE SASK?)

Megathymus streckeri streckeri (Skinner, 1895), Strecker's Giant-Skipper, NE AZ, NW NM, SW CO, SE UT

Megathymus streckeri (Skinner, 1895) (S Navajo Co., Arizona segregate), Strecker's Giant-Skipper, S end White Mts., AZ

Stallingsia smithi (H. Druce, 1896), Smith's Giant-Skipper, SW MX (JAL, MICH, GRO, DF, MOR)

Stallingsia maculosus (H. Freeman, 1955), Manfreda Giant-Skipper, S TX, N NL

Stallingsia jacki D. Stallings, Turner & V. Stallings, 1963, Chiapan Giant-Skipper, Chiapas

Aegiale hesperiaris (Walker, 1856) complex, Tequila Giant-Skipper; Gusano de Maguey, much of N & C Mexico

Turnerina mejicanus (E. Bell, 1938), Turner's Giant-Skipper, Durango

Turnerina hazelae (D. Stallings & Turner, 1958), Guerrero Giant-Skipper, Guerrero & Oaxaca

Agathymus neumoegeni neumoegeni (W. H. Edwards, 1882), Neumoegen's Giant-Skipper, C AZ (Yavapai Co.) to W-C NM (Catron Co.)

Agathymus neumoegeni (W. H. Edwards, 1882) (S NM segregate), Neumoegen's Giant-Skipper, S NM: Organ Mts. (Dona Ana-Otero Cos.) to Sacramento Mts.

Agathymus neumoegeni carlsbadensis (D. Stallings & Turner, 1957), Neumoegen's Giant-Skipper, Guadalupe Mts. (Eddy-Otero Cos., NM; Culberson Co., TX)

Agathymus neumoegeni judithae (D. Stallings & Turner, 1957), Neumoegen's Giant-Skipper, Hueco Mts., Hudspeth Co., TX

Agathymus neumoegeni diabloensis H. Freeman, 1962, Neumoegen's Giant-Skipper, Sierra Diablo, Sierra Blanca, Hudspeth Co., TX

Agathymus neumoegeni florenceae (D. Stallings & Turner, 1957), Neumoegen's Giant-Skipper, Davis Mts., Jeff Davis Co., TX

Agathymus neumoegeni mcalpinei (H. Freeman, 1955), Neumoegen's Giant-Skipper, E side of Glass Mts., Brewster Co., TX

Agathymus neumoegeni chisosensis (H. Freeman, 1952), Neumoegen's Giant-Skipper, Chisos Mts., S Brewster Co., TX

Agathymus juliae (D. Stallings & Turner, 1958), Julia's Giant-Skipper, Durango

Agathymus hoffmanni (H. Freeman, 1952), Hoffmann's Giant-Skipper, S-C Mexico (DF, GTO, HGO, MEX, SLP)

Agathymus polingi (Skinner, 1905), Poling's Giant-Skipper, S AZ, SW NM (Hidalgo Co.), NE Sonora

Agathymus evansi (H. Freeman, 1950), Huachuca Giant-Skipper, Huachuca Mts., Cochise Co., AZ

- Agathymus aryxna (Dyar, 1905), Arizona Giant-Skipper, SE AZ, SW NM, NE SON
- Agathymus baueri baueri (D. Stallings & Turner, 1954), Bauer's Giant-Skipper, C AZ: E Yavapai, W Gila, NE Maricopa, N Pinal Cos.
- Agathymus baueri freemani D. Stallings & Turner, 1960, Bauer's Giant-Skipper, W-C AZ: SW Yavapai Co., S Mohave Co.
- Agathymus gentryi Roever, 1998, Gentry's Giant-Skipper, SW AZ (W Pima, C Maricopa, W Pinal, W Yuma), E SB Co., CA
- Agathymus belli (H. Freeman, 1955), Bell's Giant-Skipper, Chihuahua, Durango
- Agathymus ricei D. Stallings, Turner & V. Stallings, 1966, Rice's Giant-Skipper, Puebla
- Agathymus indecisa (Butler & H. Druce, 1872), Guatemalan Giant-Skipper, Chiapas to Costa Rica
- Agathymus mariae mariae (W. Barnes & Benjamin, 1924), Mary's Giant-Skipper, S NM, trans-Pecos counties, TX
- Agathymus mariae chinatiensis H. Freeman, 1964, Mary's Giant-Skipper, Chinati Mts., Presidio Co., TX
- Agathymus mariae lajitaensis H. Freeman, 1964, Mary's Giant-Skipper, S Presidio Co., TX
- Agathymus mariae rindgei H. Freeman, 1964, Mary's Giant-Skipper, Val Verde and Kinney Cos., TX
- Agathymus mariae (W. Barnes & Benjamin, 1924) complex (Mexican taxa), Mary's Giant-Skipper, various undescribed entities occur in COAH, NL, and vic. (MEX)
- Agathymus gilberti H. Freeman, 1964, Gilbert's Giant-Skipper, Brewster, Terrell and Val Verde Cos., TX
- Agathymus micheneri D. Stallings, Turner & V. Stallings, 1961 (Typ. segregate), Michener's Giant-Skipper, Coahuila
- Agathymus micheneri D. Stallings, Turner & V. Stallings, 1961 complex, Michener's Giant-Skipper, various undescribed entities occur in COAH, NL, and vic.
- Agathymus remingtoni (D. Stallings & Turner, 1958), Remington's Giant-Skipper, E Mexico: HGO, SLP, TAMPS
- Agathymus fieldi H. Freeman, 1960, Field's Giant-Skipper, W Mexico: JAL, SON
- Agathymus estelleae estelleae (D. Stallings & Turner, 1958), Estelle's Giant-Skipper, Coahuila, Nuevo Leon
- Agathymus estelleae valverdiensis H. Freeman, 1966, Estelle's Giant-Skipper, S-C TX (Terrell, Val Verde, Edwards, Kinney Cos.)
- Agathymus escalantei D. Stallings, Turner & V. Stallings, 1966, Escalante's Giant-Skipper, Guerrero

Agathymus stephensi (Skinner, 1912), California Giant-Skipper, S CA (Riverside, E San Diego, W Imperial Cos.), Baja (N)

Agathymus comstocki (Harbison, 1957), Comstock's Giant-Skipper, Baja California (N)

Agathymus dawsoni Harbison, 1963 complex, Dawson's Giant-Skipper, Baja California (N)

Agathymus sp. undescribed, Undescribed Giant-Skipper, Baja California (N)

Agathymus complex undescribed, Cape Giant-Skipper, Baja California Sur

Agathymus alliae alliae (D. Stallings & Turner, 1957), Mojave Giant-Skipper, N Coconino Co., AZ

Agathymus alliae paiute Roever, 1998, Mojave Giant-Skipper, SE CA (SB, Inyo), S NV (Clark), SW UT (Wa), NW AZ

Agathymus rethon (Dyar, 1913), Black Giant-Skipper, Mexico (COL, GRO, JAL, MICH, MOR, NAY, OAX, PUE, VER), El Salvador

Tribe Thymelicini Tutt, 1905

Ancyloxypha numitor (Fabricius, 1793), Least Skipper, Great Plains, eastward; SE SASK to Quebec, to S TX, far NE MEX

Ancyloxypha arene (W. H. Edwards, 1871), Tropical Least Skipper, SE AZ, SW NM, W & S TX, S to Costa Rica

Oarisma poweshiek (Parker, 1870), Poweshiek Skipperling, SE MAN, E ND, NE SD, W & S MN, N-central IA, SE WI, S MI

Oarisma garita garita (Reakirt, 1866), Garita Skipperling, SE BC to S MAN (plus Peace Riv.), S through Rockies to AZ & NM

Oarisma garita calega (Godman, 1900), Garita Skipperling, NW (DGO) to S (OAX) Mexico

Oarisma edwardsii (W. Barnes, 1897), Edwards' Skipperling, S-central CO, NM, C & E AZ, NW Mexico to S-central Mexico

Oarisma era Dyar, 1927, Bold-veined Skipperling, NW & NE to central Mexico

Oarisma nanus (Herrich-Schäffer, 1865), Nanus Skipperling, Cuba & Isla de Juventud

Oarisma bruneri E. Bell, 1959, Bruner's Skipperling, Cuba

Copaeodes aurantiaca (Hewitson, 1868), Orange Skipperling, S CA & NV to E TX (strays N), S to Guatemala

Copaeodes minima (W. H. Edwards, 1870), Southern Skipperling, SE AZ, C TX to FL & NC, E & W Mexico to Costa Rica

Copaeodes stillmani E. Bell & W. Comstock, 1948, Stillman's Skipperling, Hispaniola including Isla Catalina

Copaeodes eoa D. Smith, L. Miller & McKenzie, 1991, Anegada Skipperling, Anegada

Adopaeoides prittwitzi (Plötz, 1884), Sunrise Skipper, SE AZ, SW NM, W TX, S to S-central Mexico

Thymelicus lineola lineola (Ochsenheimer, 1808), European Skipper, introduced; Newfoundland to VA & TN, W to MAN, S Rocky Mts.

Tribe Calpodini A. Clark, 1948

Turesis complanula (Herrich-Schäffer, 1869), Complanula Skipper, SE Mexico to S Brazil

Turesis theste Godman, 1901, Theste Skipper, SE Mexico to Costa Rica

Turesis tabascoensis H. Freeman, 1979, Tabasco Skipper, SE Mexico

Ebusus ebusus nigrior L. Miller, 1985, Ebusus Skipper, SE Mexico (Veracruz and Chiapas)

Argon lota (Hewitson, 1877), Argon Skipper, [= argus], W & S Mexico to Argentina

Megaleas syrna (Godman & Salvin, 1879), Megaleas Skipper, Costa Rica

Talides sergestus (Cramer, 1775), Sergestus Ruby-eye, SE Mexico to S Brazil

Talides cantra Evans, 1955, Cantra Ruby-eye, S Mexico to Colombia, Venezuela & W Ecuador

Talides alternata E. Bell, 1941, Alternate Ruby-eye, S Mexico to S Brazil

Talides hispa Evans, 1955, Hispa Skipper, Costa Rica to W Ecuador, W Brazil

Tromba xanthura (Godman, 1901), Yellow-washed Ruby-eye, E & W Mexico to Colombia

Synale cynaxa (Hewitson, 1867), Black-veined Ruby-eye, E & S Mexico to Costa Rica

Carystus ploetzi Mielke & Casagrande, 2002, Ploetz's Ruby-eye, E & S Mexico to central Brazil & Peru

Carystus phorcus phorcus (Cramer, 1777), White-patched Ruby-eye, E & W Mexico to Argentina

Tisias quadrata hermoda (Hewitson, 1870), Quadrate Ruby-eye, Panama to Ecuador

Tisias myna (Mabille, 1889), Myna Ruby-eye, Costa Rica and Panama

Cobalus calvina (Hewitson, 1866), White-rayed Ruby-Eye, TL: Brazil (Pa)

Cobalus virbius virbius (Cramer, 1777), White-edged Ruby-eye, Costa Rica to S Brazil & Paraguay

Cobalus fidicula (Hewitson, 1877), White-centered Ruby-eye, S Mexico to Panama

Dubiella fiscella belpa Evans, 1955, Yellow-striped Ruby-eye, S Mexico to Ecuador, Venezuela, Guianas

Carystina aurifer (Godman & Salvin, 1879), Golden-spotted Ruby-eye, Costa Rica to W Ecuador

Damas clavus (Herrich-Schäffer, 1869), Violet-washed Skipper, E & S Mexico to S Brazil & Bolivia

Damas immaculata Nicolay, 1973, Immaculate Ruby-eye, Panama

Orphe gerasa (Hewitson, 1867), Gerasa Skipper, Nicaragua to Amazon basin & Guianas

Orphe vatinius Godman, 1901, Vatinius Skipper, Costa Rica, Colombia, Venezuela, Guyana, French Guiana, Brazil, Peru, Ecuador

Carystoides basoches (Latreille, [1824]), Basoches Ruby-eye, S Mexico to S Brazil & Paraguay

Carystoides lila Evans, 1955, Lila Ruby-eye, S Mexico to S Ecuador

Carystoides escalantei H. Freeman, 1969, Escalante's Ruby-eye, E Mexico to Costa Rica

Carystoides abrahami H. Freeman, 1969, Abraham's Ruby-eye, E & W Mexico

Carystoides floresi H. Freeman, 1969, Freeman's Ruby-eye, E Mexico

Carystoides mexicana H. Freeman, 1969, Mexican Ruby-eye, E Mexico

Carystoides hondura Evans, 1955, Honduran Ruby-eye, Honduras to Costa Rica

Carystoides lebbaeus lebbaeus (Hewitson, 1876), Lebbaeus Ruby-eye, Costa Rica to NW Ecuador

Carystoides sicania orbis (Godman, 1901), Yellow-spotted Ruby-eye, S Mexico to Ecuador & Guianas

Carystoides maroma (Möschler, 1877), Maroma Ruby-eye, Panama to Amazon basin

Lychnuoides saptine (Godman & Salvin, 1879), Golden-banded Ruby-eye, S Mexico (OAX, CHIS) to Costa Rica

Calpodes ethlius (Stoll, 1782), Brazilian Skipper, SE USA (strays far N), E & W Mexico to Argentina, West Indies

Panoquina panoquin (Scudder, 1863), Salt Marsh Skipper, coastal salt marshes, New England to S TX

Panoquina panoquinoides panoquinoides (Skinner, 1891), Obscure Skipper, S FL to S TX, Mexican Gulf Coast to Costa Rica, most West Indies

Panoquina panoquinoides eugeon (Godman & Salvin, 1896), Obscure Skipper, Grenada, Grenadines

Panoquina errans (Skinner, 1892), Wandering Skipper, S CA, W Mexico

Panoquina nero (Fabricius, 1798), Nero Skipper, Hispaniola and Puerto Rico

Panoquina corrupta (Herrich-Schäffer, 1865), Corrupt Skipper, Cuba and Isla de Juventud

Panoquina ocola ocola (W. H. Edwards, 1863), Ocola Skipper, Greater Antilles, Texas to Argentina

Panoquina ocola distipuncta K. Johnson & Matusik, 1988, Ocola Skipper, SW Dominican Republic

Panoquina hecebolus (Scudder, 1872), Hecebolus Skipper, S TX, E & S Mexico to Paraguay

Panoquina lucas (Fabricius, 1793), Purple-washed Skipper, [= *sylvicola*, = *woodruffi*], Gr. & Less. Antilles, S TX to Argentina

Panoquina evansi (H. Freeman, 1946), Evans' Skipper, S TX, E & W Mexico to W Panama

Panoquina fusina sonta Evans, 1955, Fusina Skipper, Panama & Colombia

Panoquina fusina viola Evans, 1955, Fusina Skipper, [Honduras?, Colombia?], Bolivia, SE Brazil, Paraguay

Panoquina pauper pauper (Mabille, 1878), Pauper Skipper, SE Mexico to Colombia

Panoquina evadnes (Stoll, 1781), Evadnes Skipper, S Mexico to Argentina

Zenis jebus hemizona (Dyar, 1918), Purple-stained Skipper, [= *janka*], E & W Mexico to Ecuador, Peru, Guianas, Trinidad

Zenis minos (Latreille, [1824]), Minos Skipper, SE Mexico, Honduras, Costa Rica, S Brazil

Saliana chiomara (Hewitson, 1867), Chiomara Saliana, Panama to Peru & Brazil

Saliana triangularis (Kaye, 1914), Triangular Saliana, E & S Mexico to Argentina

Saliana fusta Evans, 1955, Suffused Saliana, E & W Mexico to Brazil & Bolivia

Saliana placens (Butler, 1874), Ochreous Saliana, Costa Rica to Colombia & Ecuador

Saliana hewitsoni (Riley, 1926), Green Saliana, SE Mexico to Bolivia

Saliana esperi esperi Evans, 1955, Perching Saliana, E & W Mexico to S Brazil and Bolivia

Saliana esperi soroa D. Smith & L. Hernandez, 1992, Perching Saliana, W Cuba

Saliana antoninus (Latreille, [1824]), Persistent Saliana, S Mexico to S Brazil



Saliana longirostris (Sepp, [1840]), Shy *Saliana*, E & W Mexico to S Brazil

Saliana morsa Evans, 1955, *Morsa Saliana*, Taboga Is., Panama, to Guianas & Amazon basin

Saliana salius (Cramer, 1775), Sullied *Saliana*, S Mexico to S Brazil & Uruguay

Saliana saladin saladin Evans, 1955, Violet-tipped *Saliana*, S Mexico to Colombia & Peru

Saliana severus (Mabille, 1895), Dark *Saliana*, S Mexico to Colombia & Ecuador

Thracides phidon (Cramer, 1779), Jewel-studded Skipper, E & W Mexico to S Brazil

Thracides thrasea (Hewitson, 1866), *Thrasea* Skipper, S Mexico (OAX), Belize, Guianas, Amazon basin to Bolivia

Thracides nanea nida Evans, 1955, *Nanea* Skipper, Costa Rica to Colombia

Thracides joannisii Mabille, 1904, *Joannis'* Skipper, Panama to Ecuador

Thracides arcalaus (Stoll, 1782), Yellow-spotted Ruby-eye, S Mexico to Guianas & Amazon basin

Aides duma argyrina Cowan, 1970, *Duma* Silverpatch, [= *epitus*], Panama to S Brazil

Aides brilla H. Freeman, 1970, Brilliant Silverpatch, SE Mexico, Guatemala, Belize

Aides dysoni Godman, 1900, *Dyson's* Silverpatch, E Mexico to Colombia

Aides brino (Stoll, 1781), *Brino* Silverpatch, Honduras, Colombia to Guianas & N Brazil

Aides aegita (Hewitson, 1866), *Aegita* Silverpatch, Panama to Bolivia & Brazil

Aides ocrinus (Plötz, 1882), *Ocrinus* Silverpatch, Panama, Colombia, French Guiana

Neoxeniades luda (Hewitson, 1877), *Luda* Skipper, W & S Mexico to Colombia

Neoxeniades pluviasilva Burns, 2007, *Pluviasilva* Skipper, Nicaragua to Costa Rica

Neoxeniades seron seron (Godman, 1901), *Seron* Skipper, Honduras, Colombia

Aroma aroma (Hewitson, 1867), *Aroma* Skipper, Nicaragua to N Brazil & Peru

Aroma henricus henricus (Staudinger, 1876), *Henricus* Skipper, Costa Rica to Peru

Tribe Anthoptini A. Warren, 2009

Falga sciras Godman, 1901, *Sciras* Skipper, Chiapas to Costa Rica

Synapte silius (Latreille, [1824]), Rain-forest Faceted-Skipper, SE Mexico to Argentina

Synapte malitiosa malitiosa (Herrich-Schäffer, 1865), Caribbean Faceted-Skipper, Cuba, Jamaica

Synapte malitiosa adoceta Schwartz & Sommer, 1986, Caribbean Faceted-Skipper, Hispaniola

Synapte pecta Evans, 1955, Northern Faceted-Skipper, S TX, E & W Mexico to Costa Rica

Synapte puma Evans, 1955, Panamanian Faceted-Skipper, Panama

Synapte syraces (Godman, 1901), Bold Faceted-Skipper, W Mexico, El Salvador

Synapte shiva (Evans, 1955), Faded Faceted-Skipper, W Mexico to Nicaragua

Synapte salenus salenus (Mabille, 1893), Salenus Faceted-Skipper, S TX (rare stray), E Mexico to Colombia

Synapte silna Evans, 1955, Southwest-Mexican Faceted-Skipper, SW Mexico (NAY to OAX)

Synapte lutulenta (Herrich-Schäffer, 1869), Whitened Faceted-Skipper, Costa Rica to Ecuador

Propaplias sipariana (Kaye, 1925), Sipariana Skipper, Panama, Venezuela, Trinidad, Guyana, Surinam, Brazil, Ecuador, Argentina

Anthoptus epictetus (Fabricius, 1793), Trailside Skipper, SE Mexico to Argentina

Anthoptus inculta (Dyar, 1918), Inculta Skipper, S Mexico possibly to Costa Rica

Anthoptus insignis (Plötz, 1882), Immaculate Skipper, E & W Mexico to S Brazil

Anthoptus macalpinei H. Freeman, 1969, McAlpine's Skipper, Possibly a synonym of *A. inculta*; SE Mexico (VER)

Anthoptus maracanae (E. Bell, 1934), Trinidadian Skipper, Panama, Colombia, Trinidad, Tobago, possibly Costa Rica

Corticea corticea (Plötz, 1882), Redundant Skipper, S TX (as stray), E & W Mexico to S Brazil & Paraguay

Corticea similea (E. Bell, 1942), Similar Skipper, SW Mexico (MICH, GRO)

Corticea lysias lysias (Plötz, 1883), Lysias Skipper, SE Mexico to Panama

Mnaseas bicolor (Mabille, 1889), Dull Skipper, SE Mexico to Panama

Mnaseas macia Evans, 1955, Macia Skipper, Nicaragua, Colombia, Ecuador

Tribe Moncini A. Warren, 2008

- Lento hermione hermione (Schaus, 1913), Hermione Skipper, S Mexico (Chiapas) to Panama
- Lento xanthina (Mabille, 1891), Xanthina Skipper, Costa Rica to Colombia and Venezuela
- Zariaspes mys (Hübner, [1808]), Mys Skipper, E Mexico to S Brazil & Paraguay
- Zariaspes mytheus Godman, 1900, Godman's Skipper , W Mexico (NAY to OAX)
- Cantha roraimae (E. Bell, 1932), Roraima Skipper, Chiapas and Belize to N Brazil
- Vinius sagitta (Mabille, 1889), Sagitta Skipper, Nicaragua to upper Amazon
- Vinius tryhana tryhana (Kaye, 1914), Gold-washed Skipper, E Mexico to Costa Rica, Guyana, Trinidad
- Vinpeius tinga (Evans, 1955), Freeman's Skipper, E Mexico to El Salvador, [Venezuela?]
- Pheraeus odilia epidius (Mabille, 1891), Snazzy Skipper, Nicaragua to Colombia
- Pheraeus unia (Butler, 1870), Confusing Skipper, SE Brazil; probably mislabeled from Hispaniola
- Pheraeus covadonga covadonga H. Freeman, 1969, 'Eastern' Covadonga Skipper, E Mexico: Tamaulipas to Chiapas
- Pheraeus covadonga loxicha Steinhauser, 1991, 'Western' Covadonga Skipper, SW Mexico: Oaxaca
- Apaustus gracilis gracilis (C. Felder & R. Felder, 1867), Delicate Skipper, Nicaragua to Ecuador
- Apaustus menes (Stoll, 1782), Menes Skipper, Nicaragua to upper Amazon
- Callimormus radiola radiola (Mabille, 1878), Radiant Skipper, S Mexico to S Brazil
- Callimormus alsimo (Möschler, 1883), Alsimo Skipper, Panama to S Brazil
- Callimormus juvenus Scudder, 1872, Juventus Skipper, S Mexico to Argentina
- Callimormus saturnus (Herrich-Schäffer, 1869), Saturnus Skipper, E & W Mexico to S Brazil & Paraguay
- Mnasicles geta Godman, 1901, Violet-frosted Skipper, E Mexico to Costa Rica
- Mnasicles hicetaon Godman, 1901, Gray Skipper, W Mexico and Yucatan to Trinidad and Paraguay
- Remella remus (Fabricius, 1798), Black-spot Remella , E & W Mexico to S Brazil & Paraguay
- Remella rita (Evans, 1955), Rita's Remella , E & W Mexico to Panama
- Remella duena (Evans, 1955), Guatemalan Remella, S Mexico to Guatemala
- Remella vopiscus (Herrich-Schäffer, 1869), Cryptic Remella, SE Mexico to N Brazil

- Amblyscirtes folia Godman, 1900, Larger Roadside-Skipper, TL: Mexico (Gue/Jal)
- Amblyscirtes raphaeli H. Freeman, 1973, Giant Roadside-Skipper, TL: Mexico (Oax)
- Amblyscirtes patriciae (E. Bell, 1959), Patricia's Roadside-Skipper, TL: Guatemala
- Amblyscirtes exoteria (Herrich-Schäffer, 1865) (Typical segregate), Large Roadside-Skipper, MORE INFO ...
- Amblyscirtes exoteria (Herrich-Schäffer, 1865) (Southern segregate), Large Roadside-Skipper, MORE INFO ...
- Amblyscirtes cassus W. H. Edwards, 1883, Cassus Roadside-Skipper , TL: USA (Az)
- Amblyscirtes texanae E. Bell, 1927, Texas Roadside-Skipper, TL: USA (Tx)
- Amblyscirtes aenus aenus W. H. Edwards, 1878, Bronze Roadside-Skipper, TL: USA (Co)
- Amblyscirtes aenus erna H. Freeman, 1943, Bronze Roadside-Skipper, NE Mexico
- Amblyscirtes aenus megamacula Scott, 1998, Bronze Roadside-Skipper, NW Mexico
- Amblyscirtes linda H. Freeman, 1943, Linda's Roadside-Skipper, TL: USA (Ar)
- Amblyscirtes fluonia Godman, 1900, Brassy Roadside-Skipper, TL: Mexico (Gue/Jal)
- Amblyscirtes oslari (Skinner, 1899), Oslar's Roadside-Skipper, TL: USA (Co)
- Amblyscirtes brocki H. Freeman, 1992 (Typical segregate), Brock's Roadside-Skipper, TL: Mexico (Son)
- Amblyscirtes brocki H. Freeman, 1992 (Southern segregate), Brock's Roadside-Skipper, MORE INFO ...
- Amblyscirtes elissa elissa Godman, 1900, Elissa Roadside-Skipper, SW Mexico
- Amblyscirtes elissa arizonae H. Freeman, 1993, Elissa Roadside-Skipper, NW Mexico
- Amblyscirtes hegon (Scudder, 1863), Pepper and Salt Skipper, TL: USA (NH)
- Amblyscirtes carolina (Skinner, 1892), Carolina Roadside-Skipper, TL: USA (NC)
- Amblyscirtes reversa F. Jones, 1926, Reversed Roadside-Skipper, TL: USA (Va)
- Amblyscirtes aesculapius (Fabricius, 1793), Lace-winged Roadside-Skipper, TL: N. America
- Amblyscirtes nereus (W. H. Edwards, 1876), Slaty Roadside-Skipper, TL: USA (Az)
- Amblyscirtes nysa W. H. Edwards, 1877, Nysa Roadside-Skipper , TL: USA (Tx)
- Amblyscirtes eos (W. H. Edwards, 1871), Dotted Roadside-Skipper, TL: USA (Tx)
- Amblyscirtes vialis (W. H. Edwards, 1862), Common Roadside-Skipper, TL: USA (Il)
- Amblyscirtes alternata (Grote & Robinson, 1867), Dusky Roadside-Skipper, TL: USA (Ga)

- Amblyscirtes celia Skinner, 1895, Celia's Roadside-Skipper , TL: USA (Tx)
- Amblyscirtes belli H. Freeman, 1941, Bell's Roadside-Skipper, TL: USA (Tx)
- Amblyscirtes tolteca tolteca Scudder, 1872, Toltec Roadside-Skipper, S TX (as stray), E & W Mexico to Nicaragua
- Amblyscirtes tolteca prenda Evans, 1955, Toltec Roadside-Skipper , SE AZ, far NW Mexico
- Amblyscirtes phylace (W. H. Edwards, 1878), Orange-headed Roadside-Skipper, TL: USA (Co)
- Amblyscirtes fimbriata fimbriata (Plötz, 1882), Orange-edged Roadside-Skipper , TL: Mexico
- Amblyscirtes fimbriata pallida H. Freeman, 1993, White-edged Roadside-Skipper, TL: Mexico (Mex)
- Amblyscirtes anubis (Godman, 1900), Half-edged Roadside-Skipper, TL: Mexico (Gue/Ver)
- Amblyscirtes novimmaculatus A. Warren, 1998, Immaculate Roadside-Skipper, SW Mexico
- Eutocus facilis (Plötz, 1884), Facilis Skipper, S Mexico to Ecuador and Bolivia
- Eutocus matildae vinda Evans, 1955, Purple-shaded Skipper, Costa Rica to Bolivia & S Brazil
- Eutocus vetulus vetulus (Mabille, 1883), Vetulus Skipper, Nicaragua to Costa Rica
- Virga virginus (Möschler, 1883), Virginus Skipper, Chiapas to upper Amazon
- Virga clenchi L. Miller, 1970, Clench's Skipper , E Mexico: TAMPS to VER & CAMP
- Virga xantho (Schaus, 1913), Xantho Skipper, Nicaragua to Ecuador
- Eprius veleda veleda (Godman, 1900), Veleda Skipper , E Mexico to Bolivia
- Ludens ludens (Mabille, 1891), Ludens Skipper , Costa Rica to Argentina
- Methionopsis ina (Plötz, 1882), Ina Skipper, E & W Mexico to S Brazil & Paraguay
- Methionopsis dolor Evans, 1955, Dolor Skipper, Belize, Guatemala to Guyana and Peru
- Methionopsis typhon Godman, 1901, Typhon Skipper, SE Mexico to Costa Rica
- Inglorius mediocris Austin, 1997, Mediocre Skipper, Campeche, N Guatemala, Belize
- Methion melas Godman, 1900, Rusty Skipper, S Mexico (VER, CHIS), Guatemala
- Thargella caura caura (Plötz, 1882), Round-winged Skipper, SE Mexico to Bolivia and C Brazil
- Repens florus (Godman, 1900), False Roadside-Skipper , E & W Mexico, Belize, Nicaragua
- Lucida lucia oebasus (Godman, 1900), Mottled Skipper, Costa Rica to Ecuador
- Phanes aletes (Geyer, 1832), Jeweled Skipper, E & W Mexico to S Brazil

- Phanes almoda (Hewitson, 1866), Almoda Skipper, SE Mexico to S Brazil
- Sodalia sodalis (Butler, 1877), Sodalid Skipper, Nicaragua to S Brazil
- Mnestheus ittona (Butler, 1870), Ittona Skipper, Costa Rica to Bolivia
- Artines aepitus (Geyer, 1832), Widespread Peacock-Skipper, Panama to S Brazil
- Artines rica Steinhauser & Austin, 1993, Costa Rican Peacock-Skipper, Costa Rica
- Flaccilla aecas (Stoll, 1781), Aecas Ruby-eye, E & W Mexico to S Brazil
- Vidius perigenes (Godman, 1900), Pale-rayed Skipper, S TX, E & W Mexico to Colombia
- Monca crispinus (Plötz, 1882), Violet-patched Skipper, [= tyrtaeus], S TX, E & W Mexico to Colombia
- Monca telata (Herrich-Schäffer, 1869), Telata Skipper, Belize, Guatemala to Guyana, Trinidad and Tobago
- Monca jera (Godman, 1900), Jera Skipper, SW Mexico: MICH & MOR to CHIS
- Nastra lherminier (Latreille, [1824]), Swarthy Skipper, E USA: KS to TX, E to FL, NJ, CT
- Nastra neamathla (Skinner & R. Williams, 1923), Neamathla Skipper, SE USA (FL, TX), NOT in Mexico or Central America
- Nastra julia (H. Freeman, 1945), Julia's Skipper, [= hoffmanni], far SW USA, C & S TX, E & W Mexico to C. Rica
- Nastra leucone leucone (Godman, 1900), Leucone Skipper, E Mexico to Costa Rica
- Cymaenes tripunctus tripunctus (Herrich-Schäffer, 1865), Three-spotted Skipper, S FL, Bahamas, Cuba, Hispaniola, Puerto Rico, Jamaica, etc.
- Cymaenes tripunctus theogenis (Capronnier, 1874), Theogenis Skipper, Chiapas to S Brazil & Paraguay
- Cymaenes alumna (Butler, 1877), Alumna Skipper, SE Mexico to Bolivia & S Brazil
- Cymaenes laurelolus laureolus (Schaus, 1913), Laureolus Skipper, E Mexico to Ecuador
- Cymaenes trebius (Mabille, 1891), Fawn-spotted Skipper, SE AZ (rare stray), S TX, E & W Mexico to Colombia
- Cymaenes fraus (Godman, 1900), Frosty-banded Skipper, E Mexico to Costa Rica
- Vehilius stictomenes illudens (Mabille, 1891), Pasture Skipper, E & W Mexico to Panama
- Vehilius inca (Scudder, 1872), Inca Skipper, E & W Mexico to Argentina
- Vehilius vetula (Mabille, 1878), Vetula Skipper, Nicaragua to Bolivia
- Lerodea eufala eufala (W. H. Edwards, 1869), Eufala Skipper, S & C CA, to S NM, C & S TX-OK to VA-FL (strays N); to Argent.

- Lerodea arabus (W. H. Edwards, 1882), Violet-clouded Skipper, [= dysaules], S AZ, S TX to Costa Rica
- Mnasilus allubita (Butler, 1870), Butler's Skipper, E & W Mexico to S Brazil & Paraguay
- Sucova sucova (Schaus, 1902), Sucova Skipper, [= Cynea fista], Chiapas to S Brazil
- Mnasinous patage Godman, 1900, Black-veined Skipper, SW & E Mexico to Costa Rica
- Mnasitheus chrysophrys (Mabille, 1891), Chrysophrys Skipper, SE Mexico to S Brazil & Paraguay
- Mnasitheus nitra Evans, 1955, Nitra Skipper, W Mexico, Guatemala, Belize to S Brazil
- Mnasitheus cephoides Hayward, 1943, Cephoides Skipper, Belize to S Brazil
- Mnasitheus simplicissima (Herrich-Schäffer, 1870), Strange-stigma Skipper, Costa Rica to Bolivia
- Moeris striga stroma Evans, 1955, Flag Skipper, E & W Mexico to Colombia
- Moeris hyagnis hyagnis Godman, 1900, Hyagnis Skipper, E Mexico to Costa Rica
- Parphorus storax storax (Mabille, 1891), Storax Skipper, SE Mexico to S Brazil
- Parphorus decora (Herrich-Schäffer, 1869), Decora Skipper, SE Mexico to S Brazil
- Parphorus oca Evans, 1955, Oca Skipper, Panama to Peru
- Parphorus granta Evans, 1955, Granta Skipper, Panama
- Parphorus oeagrus (Godman, 1900), Tawny-washed Skipper, Costa Rica
- Parphorus sapala (Godman, 1900), Sapala Skipper, Panama to Peru
- Parphorus jaguar Steinhauser, 2008, Steinhauser's Skipper, Guyana, Nicaragua
- Papias phainis Godman, 1900, Somber Skipper, [= sobrinus?], SE Mexico to Peru and Uruguay
- Papias phaeomelas (Hübner, 1831), Hubner's Skipper, SE Mexico to Ecuador and upper Amazon
- Papias dictys Godman, 1900, Bottom-spotted Skipper, E & S Mexico to Ecuador
- Papias subcostulata (Herrich-Schäffer, 1870), Jungle Skipper, [= infuscata (Plötz, 1882)], S Mexico to S Brazil & Paraguay
- Papias trimacula Nicolay, 1973, Three-dotted Skipper, Costa Rica to Panama
- Cobalopsis latonia Schaus, 1913, Latonia Skipper, Costa Rica and Panama
- Cobalopsis autumnna (Plötz, 1882), Autumnna Skipper, SE Mexico to S Brazil

- Cobalopsis nero (Herrich-Schäffer, 1869), Nero Skipper, [= zetus], E & S Mexico to S Brazil & Paraguay
- Cobalopsis miaba (Schaus, 1902), Miaba Skipper, Costa Rica to S Brazil & Paraguay
- Arita arita (Schaus, 1902), Arita Skipper, [= Thoon wellingi], SE Mexico to Argentina
- Lerema lumina (Herrich-Schäffer, 1869), Overcast Skipper, Chiapas to Colombia
- Lerema accius (J. E. Smith, 1797), Clouded Skipper, [including lochius], S USA (strays N) to Colombia & Venezuela
- Lerema iris Evans, 1955, Liris Skipper, E & W Mexico to Costa Rica
- Lerema ancillaris (Butler, 1877), Plain skipper, Costa Rica and Trinidad to upper Amazon
- Morys valda Evans, 1955, Valda Skipper, ["valerius"], E & W Mexico to Costa Rica
- Morys miccythus (Godman, 1900), Miccythus Skipper, ["compta"], S & E Mexico to Colombia and Ecuador
- Morys lyde (Godman, 1900), Violet-studded Skipper, S & E Mexico to Costa Rica
- Morys geisa (Möschler, 1879), Geisa Skipper, Costa Rica and Trinidad to Argentina
- Adlerodea petrovna (Schaus, 1902), Petrovna Skipper, S Mexico to S Brazil
- Tigasis zalates Godman, 1900, Zalates Skipper, Costa Rica to Ecuador
- Tigasis simplex (Bell, 1930), Simple Skipper, W Mexico and Yucatan to Argentina
- Tigasis nausiphanes (Schaus, 1913), Cloud-forest Skipper, W Mexico to Panama
- Halotus rica (E. Bell, 1942), Costa Rican Skipper, W Mexico to Costa Rica
- Halotus angellus (Plötz, 1886), Angellus Skipper, Costa Rica and Panama
- Halotus jonaveriorum Burns, 1992, John-and-Avery's Skipper, W Mexico
- Niconiades incomptus Austin, 1997, Half-tailed Skipper, E & W Mexico to Costa Rica
- Niconiades xanthaphes Hübner, [1821], Stub-tailed Skipper, Panama to Uruguay and Paraguay
- Niconiades comitana H. Freeman, 1969, Comitana Skipper, SE Mexico (Chiapas and Veracruz)
- Niconiades nikko Hayward, 1948, Nikko Skipper, E Mexico to Ecuador, S Brazil and Paraguay
- Niconiades viridis vista Evans, 1955, Vista Skipper, Oaxaca to Ecuador
- Niconiades bifurcus Anderson, 2008, Bifurcus Skipper, Nicaragua
- Troyus turneri (Troyus, A. Warren & Turland 2012), Turner's Skipper, Jamaica

- Vettius lafrenaye pica (Herrich-Schäffer, 1869), Two-toned Skipper, SE Mexico to upper Amazon
- Vettius richardi (A. Weeks, 1906), Richard's Skipper, Panama, Colombia, Venezuela, Guianas, Brazil, Ecuador
- Vettius triangularis (Hübner, [1831]), Triangular Skipper, Panama to Guianas and Amazonas
- Vettius phyllus phyllus (Cramer, 1777), Phyllus Skipper, Panama and Trinidad to C Brazil
- Vettius chagres Nicolay, 1973, Chagres Skipper, Panama & Colombia
- Vettius aurelius (Plötz, 1882), Aurelius Skipper, Guatemala to C Brazil
- Vettius marcus (Fabricius, 1787), Marcus Skipper, S Mexico (Chiapas) to Argentina
- Vettius diversa maeon (Mabille, 1891), Diversa Skipper, Nicaragua to Colombia
- Vettius fantasos (Cramer, 1780), Fantastic Skipper, S TX (sporadic), E & W Mexico to Paraguay
- Vettius onaca Evans, 1955, Onaca Skipper, SE Mexico to El Salvador
- Vettius artona (Hewitson, 1868), White-veined Skipper, Nicaragua to S Brazil
- Vettius coryna conka Evans, 1955, Silver-plated Skipper, S Mexico to Panama
- Vettius coryna argentus H. Freeman, 1969, 'Chiapan' Silver-plated Skipper, S Mexico to El Salvador, at least
- Vettius tertianus (Herrich-Schäffer, 1869), Blurry Skipper, SE Mexico to French Guiana and Trinidad
- Paracarystus hypargyra (Herrich-Schäffer, 1869), Hypargyra Skipper, SE Mexico to S Brazil
- Thoon modius (Mabille, 1889), Moody Skipper, E & W Mexico to upper Amazon and Bolivia
- Thoon taxes Godman, 1900, Taxes Skipper, Costa Rica and Panama
- Thoon aethus (Hayward, 1951), Disjunct Skipper, Nicaragua, Bolivia
- Thoon opus Steinhauser, 2008, Opus Skipper, Nicaragua, Guyana
- Justinia norda Evans, 1955, False Saliana, ["phaetusa"], SE Mexico to Colombia
- Justinia gertschi (E. Bell, 1937), Gertsch's Skipper, Panama
- Justinia justinianus (Latreille, [1824]), Justinianus Skipper, Nicaragua [as J. j. justinianus, but may be J. j. dappa Evans, 1955]
- Eutychide complana (Herrich-Schäffer, 1869), Compliant Skipper, E Mexico to Bolivia and upper Amazon
- Eutychide subcordata ochus Godman, 1900, Ochus Skipper, SE Mexico to Costa Rica

- Eutychide paria* (Plötz, 1882), Gold-dot Skipper, SE Mexico to Colombia and upper Amazon
- Eutychide asema* (Mabille, 1891), Honduras Skipper, Honduras
- Onophas columbaria columbaria* (Herrich-Schäffer, 1870), Blue-glossed Skipper, SE Mexico to Bolivia and C Brazil
- Onophas chlorocephala* (Godman, 1900), Green-headed Skipper, Panama
- Naevolus orius* (Mabille, 1883), Orius Skipper, E & W Mexico to S Brazil
- Styriodes quadrinotata* (Mabille, [1889]), Four-marked Skipper, Costa Rica and Panama
- Styriodes lyco* Schaus, 1913, Lyco Skipper, Costa Rica to Colombia
- Styriodes dedecora* (Plötz, 1882), Dedecora Skipper, [= quaka], S Mexico to Ecuador
- Styriodes zeteki* (E. Bell, 1931), Zetek's Skipper, Guatemala, Panama
- Dion gemmatus* (Butler, 1872), Gemmed Skipper, Costa Rica and Panama
- Enosis uza pruinosa* (Plötz, 1882), Blue-spotted Skipper, El Salvador and Nicaragua to Colombia
- Enosis immaculata immaculata* (Hewitson, 1868), Immaculata Skipper, SE Mexico to Ecuador and Peru
- Enosis achelous* (Plötz, 1882), Ferruginous Skipper, SE Mexico to Ecuador
- Enosis matheri* H. Freeman, 1969, Mather's Skipper, SE Mexico (Veracruz)
- Vertica verticalis coatepeca* (Schaus, 1902), Vertical Skipper, SE Mexico to Costa Rica
- Vertica subrufescens* (Schaus, 1913), Subrufescens Skipper, SE Mexico to Costa Rica
- Vertica ibis* Evans, 1955, Ibis Skipper, SE Mexico, Bolivia
- Saturnus reticulata obscurus* (E. Bell, 1941), Bell's Skipper, E & S Mexico to Panama
- Phlebodes campo sifax* Evans, 1955, Sifax Skipper, Chiapas, Belize, Costa Rica to Guianas, Amazon Basin
- Phlebodes eteocla* (Plötz, 1882), Eteocla Skipper, Costa Rica to Argentina
- Joanna joanna* Evans, 1955, Joanna's Skipper, E & W Mexico to Panama
- Rhinthon osca* (Plötz, 1882), Osca Skipper, S TX (as stray); E & SW Mexico to Venezuela & Ecuador, Trinidad
- Rhinthon cubana* (Herrich-Schäffer, 1865), Cuban Skipper, Greater Antilles
- Rhinthon molion* (Godman, 1901), Blue-based Skipper, E Mexico to Ecuador
- "*Rhinthon*" *bushi* F. Watson, 1937, Bush's Skipper, Hispaniola
- Mucia zygia* (Plötz, 1886), Black-dotted Skipper, E & W Mexico to Argentina

Mucia gulala (Schaus, 1902), Gulala Skipper, Panama to Bolivia & S Brazil

Tribe Hesperini Latreille, 1809

Hylephila phyleus phyleus (Drury, 1773), Fiery Skipper, [= muertovalle] CA to FL (strays far N), S to Argentina; Hawaii

Pseudocopaeodes eunus eunus (W. H. Edwards, 1881), Alkali Skipper, S CA (Kern to San Diego cos.)

Pseudocopaeodes eunus alineae Scott, 1981, Alkali Skipper, S NV, far SE CA

Pseudocopaeodes eunus flavus Austin & J. Emmel, 1998, Alkali Skipper, Inyo Co., CA, N through Lyon, Mineral, Storey, Washoe, Pershing, Lander and Nye cos., NV

Pseudocopaeodes eunus obscurus Austin & J. Emmel, 1998, Alkali Skipper, Carson City, NV, also Honey L., Lassen Co., CA & vic. Mono L. & L. Crowley, Mono Co., CA

Hesperia uncas gilberti MacNeill, 1964, Uncas Skipper, S-central Mexico (DF, MEX, OAX)

Hesperia uncas W. H. Edwards, 1863 (NE Mexican segregate), Uncas Skipper, NE Mexico (COAH, NL)

Hesperia uncas W. H. Edwards, 1863 (Minnesota segregate), Uncas Skipper, Minnesota (Sherburne Co.)

Hesperia uncas tomichi M. Fisher, 2008, Uncas Skipper, Colorado Rockies, high elevations; univoltine

Hesperia uncas uncas W. H. Edwards, 1863, Uncas Skipper, SE MAN to S ALTA, S to NE ID, WY, W NE, W KS, W OK, E CO, NM, N & W TX

Hesperia uncas lasus (W. H. Edwards, 1884), Uncas Skipper, W CO, UT, AZ, SW NM

Hesperia uncas grandiosa Austin & McGuire, 1998, Uncas Skipper, White River and Big Smokey valleys, Nye Co., NV

Hesperia uncas fulvapalla Austin & McGuire, 1998, Uncas Skipper, Railroad Valley, Nye Co., NV & Calleo area, Juab Co., UT

Hesperia uncas reeseorum Austin & McGuire, 1998, Uncas Skipper, Reese River and Mason valleys, Lander Co., NV

Hesperia uncas terraclivosa Austin & McGuire, 1998, Uncas Skipper, C NV (Toquima, Mts, Schell Creek Range, Humboldt Range) to Alvord Desert, Harney Co., OR

Hesperia uncas W. H. Edwards, 1863 (central Oregon segregate), Uncas Skipper, Crook-Deschutes cos., central OR

Hesperia uncas giulianii McGuire, 1998, Uncas Skipper, vic. Adobe Hills, Mono Co., CA

Hesperia uncas macswaini MacNeill, 1964, Uncas Skipper, CA-NV White Mts., high elevations

Hesperia juba (Scudder, 1874), Juba Skipper, S BC to W SD, S to NW NM, N AZ, CA & Baja California

Hesperia comma hulbirti Lindsey, 1939, Common Branded Skipper, Olympic Mts., WA, high elevations

Hesperia comma manitoba (Scudder, 1874), Common Branded Skipper, N Manitoba to Alaska, S in Canadian Rocky Mts. to N-central WA & N MT

Hesperia comma borealis Lindsey, 1942, Common Branded Skipper, Newfoundland, Labrador, N Quebec

Hesperia comma laurentina (Lyman, 1892), Common Branded Skipper, SE Canada, N New England, N MI, WI, MN to E MAN

Hesperia [colorado] *assiniboia* (Lyman, 1892), Plains Branded Skipper, Peace River BC-ALTA to C MAN, S to MT, ND, far W MN

Hesperia colorado colorado (Scudder, 1874), Western Branded Skipper, Rocky Mts. of Colorado, at and above treeline

Hesperia colorado ochracea Lindsey, 1941, Western Branded Skipper, CO Front Range (Larimer to El Paso cos.)

Hesperia colorado oroplata Scott, 1981, Western Branded Skipper, S-central CO, N NM

Hesperia colorado susanae L. Miller, 1962, Western Branded Skipper, S-central CO, N NM

Hesperia colorado mojaviensis Austin & McGuire, 1998, Western Branded Skipper, Spring Mts., Clark Co., NV

Hesperia colorado idaho (W. H. Edwards, 1883), Western Branded Skipper, W CO to E CA, N to SE BC, MT, WY

Hesperia colorado (Scudder, 1874) (E Columbia Basin segregate), Western Branded Skipper, E Columbia Basin, NE OR, SE WA

Hesperia colorado leussleri Lindsey, 1940, Western Branded Skipper, SW CA

Hesperia colorado tildenii H. Freeman, 1956, Western Branded Skipper, W-central CA (Coast Ranges)

Hesperia colorado harpalus (W. H. Edwards, 1881), Western Branded Skipper, CA Sierra Nevada

Hesperia colorado oregonia (W. H. Edwards, 1883), Western Branded Skipper, N CA-SW OR Cascades, E Siskiyou

Hesperia colorado (Scudder, 1874) (W Cascades segregate), Western Branded Skipper, W OR Cascades (from Clackamas to N Jackson cos.)

Hesperia colorado mattoonorum McGuire, 1998, Western Branded Skipper, NW CA-SW OR
W Siskiyou & outer Coast Range

Hesperia colorado (Scudder, 1874) (N CA coastal segregate), Western Branded Skipper,
Marin Co., CA

Hesperia colorado dodgei (E. Bell, 1927), Western Branded Skipper, Santa Cruz Co., CA

Hesperia woodgatei (R. Williams, 1914) (Hualapai Mts. segregate), Apache Skipper,
Hualapai Mts., Mohave Co., AZ

Hesperia woodgatei (R. Williams, 1914) (Typical segregate), Apache Skipper, S CO, NM, W
TX, C & SE AZ, CHIH

Hesperia woodgatei (R. Williams, 1914) (NW Mexican segregate), Apache Skipper, NW
Mexico (DGO)

Hesperia woodgatei (R. Williams, 1914) (NE Mexican segregate), Apache Skipper, NE
Mexico (COAH, NL)

Hesperia woodgatei (R. Williams, 1914) (C Texas segregate), Apache Skipper, C TX (Travis
& Bear cos.)

Hesperia ottoe W. H. Edwards, 1866, Ottoe Skipper, S MAN, E MT & W ND, S to E CO, W
OK, N TX, E to IL, MI

Hesperia leonardus leonardus T. Harris, 1862, Leonard's Skipper, SE Canada, New England
to SC, NE GA, W to WI, MO

Hesperia leonardus T. Harris, 1862 (midwest blends), Leonard's Skipper, E SASK, C MN to
E OK

Hesperia leonardus pawnee Dodge, 1874, Leonard's Skipper, E CO to E MT, E to SW MN,
NW IA

Hesperia leonardus montana (Skinner, 1911), Leonard's Skipper, S Platte River Canyon, C
CO

Hesperia pahaska pahaska Leussler, 1938, Pahaska Skipper, SASK, MT & ND, S to C NM

Hesperia pahaska williamsi Lindsey, 1940, Pahaska Skipper, S AZ to W TX, NW Mexico

Hesperia pahaska martini MacNeill, 1964, Pahaska Skipper, W CO to SE CA

Hesperia pahaska Leussler, 1938 (Baja California Norte), Pahaska Skipper, N Baja
California, Mexico

Hesperia columbia (Scudder, 1872) (Typical segregate), Columbian Skipper, C & S CA

Hesperia columbia (Scudder, 1872) (N Cascades-Siskiyou), Columbian Skipper, Siskiyou
Mts. & SW Cascades, NW CA, SW OR

Hesperia metea metea Scudder, 1863, Cobweb Skipper, New England to OH, WI

- Hesperia metea intermedia* Gatrell, 2003, Cobweb Skipper, S Appalachians (SW VA to N GA)
- Hesperia metea licinus* (W. H. Edwards, 1871), Cobweb Skipper, NE & IL S to TX, MS
- Hesperia viridis* (W. H. Edwards, 1883), Green Skipper, SE WY to E AZ & C TX, NE Mexico
- Hesperia attalus attalus* (W. H. Edwards, 1871), Dotted Skipper, S KS to C TX
- Hesperia attalus nigrescens* Gatrell, 1999, Dotted Skipper, S NC, N SC, NJ?
- Hesperia attalus slossonae* (Skinner, 1890), Dotted Skipper, FL to LA
- Hesperia meskei meskei* (W. H. Edwards, 1877), Meske's Skipper, NE TX, AR, E OK
- Hesperia meskei straton* (W. H. Edwards, 1881), Meske's Skipper, S NC to S FL
- Hesperia meskei pinocayo* Gatrell & Minno, 2003, Meske's Skipper, Big Pine Key, Monroe Co., FL (apparently extinct)
- Hesperia dacotae* (Skinner, 1911), Dakota Skipper, S MAN, ND, E SD, W MN
- Hesperia lindseyi lindseyi* (W. Holland, 1930), Lindsey's Skipper, W-central to S CA, far SW AZ
- Hesperia lindseyi macneilli* J. Emmel, T. Emmel & Mattoon, 1998, Lindsey's Skipper, outer N Coast Ranges, NW CA
- Hesperia lindseyi eldorado* J. Emmel, T. Emmel & Mattoon, 1998, Lindsey's Skipper, W slope Sierra Nevada, CA (Butte to El Dorado cos.)
- Hesperia lindseyi septentrionalis* J. Emmel, T. Emmel & Mattoon, 1998, Lindsey's Skipper, Siskiyou Mts & Modoc Plateau, N CA, S OR, NW NV
- Hesperia lindseyi mccorklei* P. Severns & D. Severns, 2005, Lindsey's Skipper, upper Rogue River drainage, Douglas Co., OR
- Hesperia sassacus nantahala* Gatrell & Grkovich, 2003, Indian Skipper, SW VA, W NC, TN, N GA
- Hesperia sassacus sassacus* T. Harris, 1862, Indian Skipper, SE Canada, New England to MD, W to MI
- Hesperia sassacus manitoboides* (J. Fletcher, 1889), Indian Skipper, S MAN to WI
- Hesperia miriamae miriamae* MacNeill, 1959, Sierra Skipper, S Sierra Nevada, CA (Alpine to Tulare cos.), high elevations
- Hesperia miriamae longaevicola* McGuire, 1998, Sierra Skipper, CA-NV White Mts., high elevations
- Hesperia nevada nevada* (Scudder, 1874), Nevada Skipper, ALTA & SASK, Rocky Mts. from MT-ID to N-central NM

Hesperia nevada (Scudder, 1874) (N Great Basin/ Columbia Basin segregate), Nevada Skipper, N Great Basin, OR-ID-NV & Columbia Basin, WA-BC

Hesperia nevada sierra Austin, J. Emmel, T. Emmel & Mattoon, 1998, Nevada Skipper, S OR (Warner Mts.) to S end Sierra Nevada, CA

Hesperia nabokovi (E. Bell & W. Comstock, 1948), Nabokov's Skipper, Hispaniola

Polites rhesus (W. H. Edwards, 1878) (Typical segregate), Rhesus Skipper, S ALTA, SASK, E MT, W ND, W SD, W NE, E WY, E CO, far W OK, NM, C AZ

Polites rhesus (W. H. Edwards, 1878) (Mexican segregate) , Rhesus Skipper, NW to S-Central Mexico

Polites carus (W. H. Edwards, 1883), Carus Skipper, far W OK, far SE CO, NM, W TX, AZ, NW Mexico to central Mexico

Polites subreticulata (Plötz, 1883), Subreticulate Skipper, E & W Mexico to Costa Rica

Polites peckius peckius (W. Kirby, 1837), Peck's Skipper, SE Canada, New England to NE OR, S BC; univoltine

Polites peckius surllano Scott, 2006, Peck's Skipper, southern Great Plains, CO to MO, at least; range poorly defined, bivoltine

Polites peckius (W. Kirby 1837) (AZ White Mts. segregate), Peck's Skipper, AZ White Mts.

Polites norae MacNeill, 1993, Guaymas Skipper , coastal Sonora-Sinaloa, NW Mexico

Polites sabuleti margaretae L. Miller & MacNeill, 1969, Sandhill Skipper, Baja California Sur

Polites sabuleti sabuleti (Boisduval, 1852), Sandhill Skipper, TL: USA (Ca)

Polites sabuleti channelensis J. Emmel & T. Emmel, 1998, Sandhill Skipper, Santa Rosa I., Santa Barbara Co., CA

Polites sabuleti aestivalis J. Emmel, T. Emmel & Mattoon, 1998, Sandhill Skipper, NW CA, SW OR

Polites sabuleti (Boisduval, 1852) (E-central Cascadian segregate), Sandhill Skipper, SE OR Cascades

Polites sabuleti tecumseh (F. Grinnell, 1903), Sandhill Skipper, Sierra Nevada, high elevations

Polites sabuleti albamontana Austin, 1987, Sandhill Skipper, White Mts. of CA-NV

Polites sabuleti genoa (Plötz, 1883), Sandhill Skipper, W NV (vic. Carson City)

Polites sabuleti alkaliensis Austin, 1987, Sandhill Skipper, SE WA, E OR, NE NV to N UT, W CO, NW NM; also CO Front Range

Polites sabuleti sinemaculata Austin, 1987, Sandhill Skipper, Humboldt Co., NV

Polites sabuleti basinensis Austin, 1988, Sandhill Skipper, Reese R. Valley, C NV

Polites sabuleti nigrescens Austin, 1987, Sandhill Skipper, Steptoe Valley, White Pine Co., NV

Polites sabuleti chusca (W. H. Edwards, 1873), Sandhill Skipper, far SE CA, S NV, NW AZ, SW UT

Polites sabuleti ministigma Scott, 1981, Sandhill Skipper, S-central CO (San Luis Valley, upper Arkansas R. Valley)

Polites draco (W. H. Edwards, 1871), Draco Skipper, Yukon, N BC, Rocky Mts. from W ALTA to N NM

Polites mardon mardon (W. H. Edwards, 1881), Mardon Skipper, WA Puget Sound area & nr. Mt. Adams

Polites mardon (W. H. Edwards, 1881) (N CA-S OR coastal segregate), Mardon Skipper, NW CA (Del Norte Co.), SW OR (Curry Co.) near coast

Polites mardon klamathensis Mattoon, J. Emmel & T. Emmel, 1998, Mardon Skipper, SW OR (Jackson & Klamath Cos.) S end Cascades

Polites themistocles themistocles (Latreille, [1824]), Tawny-edged Skipper, SE Canada, New England to MT, S to NM, S FL, disjunct in N CA

Polites themistocles turneri H. Freeman, 1944, Tawny-edged Skipper, S BC, NE WA

Polites themistocles (Latreille, [1824]) (UT segregate), Tawny-edged Skipper, UT, N AZ

Polites baracoa baracoa (Lucas, 1857), Baracoa Skipper, S GA, FL, Cuba

Polites baracoa loma Evans, 1955, Baracoa Skipper, Hispaniola

Polites origenes origenes (Fabricius, 1793), Crossline Skipper, SE Canada, New England to E SD, S to NE TX, C FL

Polites origenes rhenia (W. H. Edwards, 1878), Crossline Skipper, W ND & E MT to E CO & NE NM

Polites puxillius (Mabille, 1891), Mabille's Skipper, NW to S-central Mexico

Polites pupillus (Plötz, 1882), Pupiled Skipper, NW to S-central Mexico

Polites mystic mystic (W. H. Edwards, 1863), Long Dash, SE Canada to MAN, S to IA, WV, VA

Polites mystic dacotah (W. H. Edwards, 1871), Long Dash, S ALTA to NE CO, SW CO, C AZ

Polites mystic (W. H. Edwards, 1863) (Pacific northwestern segregate), Long Dash, E WA, BC, W ALTA, N ID, NW MT

Polites sonora (Scudder, 1872) (N CA coastal segregate), Sonoran Skipper, N CA coast

- Polites sonora siris* (W. H. Edwards, 1881), Sonoran Skipper, N OR coast, W WA
- Polites sonora* (Scudder, 1872) (Willamette Valley segregate), Sonoran Skipper, Willamette Valley, W OR
- Polites sonora sonora* (Scudder, 1872), Sonoran Skipper, Cascades of BC-WA-OR-CA to Sierra Nevada of CA, S to Baja California
- Polites sonora flavaventris* Austin, 1998, Sonoran Skipper, NW NV to S-central OR
- Polites sonora longinqua* Austin, 1998, Sonoran Skipper, White Mts. of CA-NV
- Polites sonora* (Scudder, 1872) (NE Oregon segregate), Sonoran Skipper, NE OR, SE WA
- Polites sonora utahensis* (Skinner, 1911), Sonoran Skipper, C ID, W MT, W & S WY, UT, CO
- Polites vibex vibex* (Geyer, 1832), Whirlabout, NC to FL, W to LA
- Polites vibex brettoides* (W. H. Edwards, 1883), Whirlabout, C & NE TX
- Polites vibex praeceps* (Scudder, 1872), Whirlabout, S TX, E & W Mexico to Trinidad, Venezuela, Ecuador
- Polites dictynna* (Godman & Salvin, 1896), Dictynna Skipper, Lesser Antilles
- Wallengrenia egeremet* (Scudder, 1863), Northern Broken-dash, SE Canada, New England to C FL, W to E TX, N to SE ND, C MN
- Wallengrenia otho otho* (J. E. Smith, 1797), Southern Broken-dash, MD to FL, W to TX, E & W Mexico to Costa Rica
- Wallengrenia otho clavus* (Erichson, [1849]), 'Pale' Southern Broken-dash, [= *curassavica*], S TX, E & W Mexico to Venezuela, Guianas, Trinidad, N Brazil, Peru
- Wallengrenia misera* (Lucas, 1857), Cuban Broken-dash, Cuba, Isla de Juventud, N Bahamas
- Wallengrenia drury* (Latreille, [1824]), Drury's Broken-dash, S Bahamas, Turks & Caicos, Hispaniola, P. Rico, Virgin Is.
- Wallengrenia vesuria* (Plötz, 1882), Jamaican Broken-dash, Jamaica
- Wallengrenia ophites* (Mabille, 1878), Fiery Broken-dash, St. Martin, St. Eustatius, Saba; St. Kitts to St. Vincent, Trinidad
- Pompeius verna verna* (W. H. Edwards, 1862), Little Glassywing, S QUE, ONT, New England to N FL, W to LA, N to MN, SE SD, E NE, NE KS
- Pompeius verna sequoyah* (H. Freeman, 1942), Little Glassywing, AR, SE OK, E TX, [NE Mexico]
- Pompeius pompeius* (Latreille, [1824]), Pompeius Skipper, E & W Mexico to Argentina
- Pompeius dares* (Plötz, 1883), Dares Skipper, E & W Mexico to S Brazil

Pompeius amblyspila (Mabille, 1898), *Amblyspila* Skipper, [Nicaragua?], Colombia to Argentina

Atalopedes campestris campestris (Boisduval, 1852), *Sachem*, Baja California to WA, Columbia Basin to W Idaho

Atalopedes campestris huron (W. H. Edwards, 1863), *Sachem*, E USA (strays far N), E & W Mexico to Ecuador, Venezuela, Brazil

Atalopedes mesogramma mesogramma (Latreille, [1824]), *Mesogramma* Skipper, Cuba, New Providence, Andros

Atalopedes mesogramma *apa* W. Comstock, 1944, *Mesogramma* Skipper, Hispaniola, Puerto Rico

Atalopedes carteri Evans, 1955, *Carter's* Skipper, New Providence Island, Bahamas

Atalopedes flaveola (Mabille, 1891), *Flaveola* Skipper, [= *clarkei*], Venezuela's Caribbean islands

Atrytone arogos arogos (Boisduval & Le Conte, [1837]), *Arogos* Skipper, NJ to FL, W to LA

Atrytone arogos iowa (Scudder, 1868), *Arogos* Skipper, IL, IA, S MN, S ND, SD, SE MT, E WY, E CO, NE, KS, W MO, NW AR, OK to C TX

Problema byssus byssus (W. H. Edwards, 1880), *Byssus* Skipper, NC to FL, W to MS

Problema byssus kumskaka (Scudder, 1887), *Byssus* Skipper, IN to IA, MO, E KS, E OK, W AR, W LA, E TX

Problema bulenta (Boisduval & Le Conte, [1837]), *Rare* Skipper, brackish coastal marshes, NJ to GA

Poanes hobomok hobomok (T. Harris, 1862), *Hobomok* Skipper, SE Canada to SASK & E-central ALTA, S to NE CO, E OK, AR to TN, N AL

Poanes hobomok monofacies Gatreille, 2002, *Hobomok* Skipper, NC to GA

Poanes hobomok wetona Scott, 1981, *Hobomok* Skipper, S-central CO, E NM ranges

Poanes zabulon (Boisduval & Le Conte, [1837]), *Zabulon* Skipper, MA & NY to NE & KS, S to TX, C FL, montane NE & NW Mexico to Panama

Poanes taxiles (W. H. Edwards, 1881), *Taxiles* Skipper, W SD, W NE, E WY, CO, S ID, UT, AZ, NM, W TX, NW Mexico to DF, OAX

Poanes massasoit massasoit (Scudder, 1863), *Mulberry* Wing, NH & MA to MD, NY to MN, far SE ND, E SD

Poanes massasoit chermocki W. Anderson & Simmons, 1976, *Mulberry* Wing, vic. New Bridge, Dorchester Co., MD

Poanes viator viator (W. H. Edwards, 1865), *Broad-winged* Skipper, NE, SE ND, E SD to NY, ONT

- Poanes viator zizaniae Shapiro, 1971, Broad-winged Skipper, MA to FL, E to C TX
- Poanes aaroni aaroni (Skinner, 1890), Aaron's Skipper, NJ to NC
- Poanes aaroni minimus Gatrell, 1999, Aaron's Skipper, S SC
- Poanes aaroni howardi (Skinner, 1896), Aaron's Skipper, FL, S GA, S AL, S MS
- Poanes aaroni bordeloni Gatrell, 2000, Aaron's Skipper, SE TX, SW LA
- Poanes yehl (Skinner, 1893), Yehl Skipper, VA to FL, AL to E TX, far E OK, N to S IN, IL
- Poanes inimica (Butler & H. Druce, 1872), Yellow-stained Skipper, E & W Mexico to Colombia, Venezuela
- Poanes melane melane (W. H. Edwards, 1869), Umber Skipper, CA (widespread W of Sierra Nevada), N Baja California
- Poanes melane vitellina (Herrich-Schäffer, 1869), 'Mexican' Umber Skipper, SE AZ, SW NM, W TX to Oaxaca
- Poanes melane (W. H. Edwards, 1869) (BCS segregate), 'Baja' Umber Skipper, Baja California Sur
- Poanes melane poa (Evans, 1955), 'Central American' Umber Skipper, VER (Los Tuxtlas), Chiapas to Panama
- Poanes ulphila (Plötz, 1883), Ulphila Skipper, S-central Mexico
- Poanes monticola (Godman, 1900), Oyamel Skipper, W to S-central Mexico
- Poanes niveolimbus (Mabille, 1889), Snow-fringed Skipper, Chiapas, Guatemala
- Stinga morrisoni (W. H. Edwards, 1878), Morrison's Skipper, CO Front Range, NM, E AZ, W TX, N to S-central Mexico
- Stinga kendamulaza A. Warren & Austin, 2009, Kendamulaza Skipper, S Mexico (Tlaxcala, Puebla, Oaxaca)
- Ochlodes sylvanoides sylvanoides (Boisduval, 1852), Woodland Skipper, S BC, W WA, W OR, W CA, N BC (Mexico)
- Ochlodes sylvanoides santacruza Scott, 1981, Woodland Skipper, Santa Cruz Island, CA
- Ochlodes sylvanoides catalina J. Emmel & T. Emmel, 1998, Woodland Skipper, Santa Catalina Island, CA
- Ochlodes sylvanoides orecoasta Scott, 1981, Woodland Skipper, immediate coastal habitats from W WA to N CA, variable phenotype
- Ochlodes sylvanoides bonnevilla Scott, 1981, Woodland Skipper, N Great Basin, esp. Elko Co., NV, variable but palest phenotype

Ochlodes sylvanoides omnigena Austin, 1998, Woodland Skipper, E CA Sierra Nevada & E OR-WA Cascades to MT, WY, W CO

Ochlodes sylvanoides napa (W. H. Edwards, 1865), Woodland Skipper, CO Front Range (Larimer to El Paso & Fremont cos.), E WY, W SD

Ochlodes agricola (Boisduval, 1852) (Northern segregate), Rural Skipper, NW CA, SW OR

Ochlodes agricola agricola (Boisduval, 1852), Rural Skipper, W CA, N BC (MEX)

Ochlodes agricola nemorum (Boisduval, 1852), Rural Skipper, W Sierra Nevada, CA

Ochlodes agricola verus (W. H. Edwards, 1881), Rural Skipper, far S Sierra Nevada, to SE (CA)

Ochlodes yuma sacramentorum Austin, 1998, Yuma Skipper, CA Central Valley

Ochlodes yuma yuma (W. H. Edwards, 1873), Yuma Skipper, far NW NM, N AZ, S UT, S NV, SE CA

Ochlodes yuma lutea Austin, 1998, Yuma Skipper, C & N NV, SE OR

Ochlodes yuma (W. H. Edwards, 1873) (Columbia Basin segregate), Yuma Skipper, C Washington (Dry Falls area) to Columbia R. of S WA, N OR

Ochlodes yuma (W. H. Edwards, 1873) (lower Snake River drainage), Yuma Skipper, vic. Hells Canyon (Snake R.), NE OR, W ID

Ochlodes yuma scudderi (Skinner, 1899), Yuma Skipper, WY (Wind R. Cyn.), W CO, NE UT

Ochlodes yuma anasazi S. Cary & Stanford, 1995, Yuma Skipper, N New Mexico (Rio Grande Gorge)

Ochlodes batesi (E. Bell, 1935), Bates' Skipper, Hispaniola

Ochlodes samenta Dyar, 1914, Samenta Skipper, W Mexico (SON to OAX)

Paratrytone snowi (W. H. Edwards, 1877), Snow's Skipper, SE WY (Laramie Co.), CO Front Range, S CO, NM, E AZ, CHIH, [SON?]

Paratrytone pilza Evans, 1955, Pilza Skipper, S-central Mexico (GTO, DF, TLAX, PUE)

Paratrytone polyclea Godman, 1900, Polyclea Skipper, SW Mexico (GRO, OAX, CHIS)

Paratrytone rhexenor Godman, 1900, Crazy-spotted Skipper, NW & NE Mexico to OAX, VER

Paratrytone decepta L. Miller & J. Y. Miller, 1972, Morelos Skipper, NE to S-central Mexico (TAMPS, COAH, DF, MOR, VER)

Paratrytone aphractioia Dyar, 1914, Snowball-spotted Skipper, NW & S-central Mexico

Paratrytone kemneri Steinhauser, 1996, Kemner's Skipper, N to S-central Mexico

Paratrytone raspa (Evans, 1955), Raspa Skipper, [= miahua] SW Mexico (MICH to OAX)

- Paratrytone omiltemensis Steinhauser, 1996, Omiltemi Skipper, SW Mexico (MICH to OAX)
- Paratrytone browni E. Bell, 1959, Brown's Skipper, Costa Rica
- Neochlodes maculosus Austin & DeVries, 2001, Maculosus Skipper, Costa Rica (Cerro Echandi, 2400m, Puntarenas)
- Onespa nubis Steinhauser, 1974, Nubis Skipper, S Mexico (OAX, CHIS) to El Salvador
- Onespa gala (Godman, 1900), Gala Skipper, C Mexico (DF, GRO, MICH, VER)
- Onespa brockorum Austin & A. Warren, 2009, Brocks' Skipper, NW Mexico (SON, SIN, possibly DGO)
- Onespa nakamura Austin & A. Warren, 2009, Nakamura's Skipper, Costa Rica (San Jose Prov.: Bajo la Hondura)
- Buzyges idothea Godman, 1900, Idothea Skipper, Costa Rica
- Buzyges rolla (Mabille, 1883), Rolla Skipper, Costa Rica and Panama
- Buzyges benito (H. Freeman, 1979), Benito's Skipper, SW Mexico (COL, GRO, JAL, OAX)
- Buzyges mellanaformis Austin & A. Warren, 2009, Mellana-like Skipper, Costa Rica
- Librita librita (Plötz, 1886), Librita Skipper, W & S Mexico to Guatemala
- Neposa heras (Godman, 1900), Heras Skipper, SW Mexico (GRO, OAX)
- Neposa hestia Austin & A. Warren, 2009, Hestia Skipper, SE Mexico (VER)
- Neposa armandoi Austin & A. Warren, 2009, Armando's Skipper, SW Mexico (OAX)
- Neposa isabelae Austin & A. Warren, 2009, Isabel's Skipper, Guatemala
- Choranthus vitellius (Fabricius, 1793), Vitellius Skipper, Puerto Rico E to Virgin Islands
- Choranthus haitensis Skinner, 1920, Haitian Skipper, Hispaniola
- Choranthus maria Minno, 1990, Maria's Skipper, Hispaniola; status requires verification
- Choranthus melissa Gali, 1983, Melissa's Skipper, Hispaniola
- Choranthus schwartzi Gali, 1983, Schwartz's Skipper, Hispaniola
- Choranthus radians (Lucas, 1857), Radians Skipper, Cuba and Isla de Juventud, Cat I., Great Exuma I.
- Choranthus richmondi L. Miller, 1965, Richmond's Skipper, Great Bahama Bank, N Bahamas
- Choranthus lilliae E. Bell, 1931, Lilly's Skipper, Jamaica
- Choranthus borincona (F. Watson, 1937), Puerto Rican Skipper, Puerto Rico
- Parachoranthus magdalia (Herrich-Schäffer, 1863), Magdalia Skipper, Cuba, [N Andros]

Anatrytone logan logan (W. H. Edwards, 1863), Delaware Skipper, ME to MN, S to FL & E TX

Anatrytone logan lagus (W. H. Edwards, 1881), Delaware Skipper, SE ALTA & E MT to W & S TX, NL

Anatrytone mazai (H. Freeman, 1969), De la Maza's Skipper, S TX, E & W Mexico to Costa Rica

Anatrytone potosiensis (H. Freeman, 1969), Potosi Skipper, E Mexico to Honduras

Anatrytone mella (Godman, 1900), Mella Skipper, S Mexico to Colombia & Peru

Quasimellana mexicana (E. Bell, 1942), Mexican Mellana, E & W Mexico, Guatemala, Belize

Quasimellana eulogius (Plötz, 1882), Common Mellana, S TX, E & W Mexico to Venezuela, Guianas, Trinidad, Brazil

Quasimellana agnesae (E. Bell, 1959), Coastal Mellana, W Mexico (Nayarit to Guerrero); coastal

Quasimellana siblinga Burns, 1994, Sibling Mellana, NW to S Mexico (SON, SIN, OAX)

Quasimellana balsa (E. Bell, 1942), Sullied Mellana, W Mexico to El Salvador

Quasimellana mulleri (E. Bell, 1942), Muller's Mellana, NE & W Mexico

Quasimellana aurora (E. Bell, 1942), Bright Mellana, W Mexico to El Salvador

Quasimellana nayana (E. Bell, 1941), Nayarit Mellana, W Mexico to Costa Rica, Venezuela

Quasimellana antipazina Burns, 1994, Costa Rican Mellana, Costa Rica

Quasimellana andersoni Burns, 1994, Anderson's Mellana, E Mexico to Costa Rica

Quasimellana sethos (Mabille, 1889), Small Mellana, [Nicaragua], Panama, Colombia, Ecuador, [Venezuela]

Quasimellana myron (Godman, 1900), Greenish Mellana, E & W Mexico to Panama

Quasimellana servilius (Möschler, 1883), Green Mellana, [= verba], E & S Mexico to Colombia, Venezuela, Ecuador, Brazil

Quasimellana fieldi (E. Bell, 1942), Field's Mellana, E Mexico to Costa Rica

Notamblyscirtes simius (W. H. Edwards, 1881), Simius Skipper, S SASK, E MT, E WY, W SD, W NE, E CO, N & W TX, NM, C & SE AZ, COAH, DGO

Euphyes pilatka pilatka (W. H. Edwards, 1867), Palatka Skipper, VA to FL, W to MS

Euphyes pilatka klotsi L. Miller, Harvey & J. Miller, 1985, Palatka Skipper, lower Florida Keys

Euphyes conspicua orono (Scudder, 1872), Black Dash, New England



- Euphyes conspicua conspicua* (W. H. Edwards, 1863), Black Dash, upper midwest USA (OH, MI, IN, IL, WI)
- Euphyes conspicua buchholzi* (P. Ehrlich & Gillham, 1951), Black Dash, NE, OK, IA
- Euphyes berryi* (E. Bell, 1941), Berry's Skipper, FL, GA, coastal SC, NC
- Euphyes singularis singularis* (Herrich-Schäffer, 1865), Singularis Skipper, Cuba
- Euphyes singularis insolata* (Butler, 1878), Singularis Skipper, Jamaica, Hispaniola, Puerto Rico
- Euphyes cornelius cornelius* (Latreille, [1824]), Cornelius Skipper, Cuba
- Euphyes cornelius agra* Evans, 1955, Cornelius Skipper, Bahamas
- Euphyes bayensis* Shuey, 1989, Bay Skipper, S MS, S LA, SE TX
- Euphyes dion* (W. H. Edwards, 1879), Dion Skipper, ONT & NY to FL, W to E TX, OK, KS, NE, SD & ND
- Euphyes dukesi dukesi* (Lindsey, 1923), Dukes' Skipper, AR, SE TX to AL, NC, VA, OH, MI
- Euphyes dukesi calhouni* Shuey, 1996, Dukes' Skipper, Peninsular Florida
- Euphyes bimacula bimacula* (Grote & Robinson, 1867), Two-spotted Skipper, New England and ONT to VA
- Euphyes bimacula arbogasti* Gatreille, 1999, Two-spotted Skipper, South Carolina (Berkeley Co.)
- Euphyes bimacula illinois* (Dodge, 1972), Two-spotted Skipper, IL, IA, S SD, NE, NW KS, NE CO
- Euphyes arpa* (Boisduval & Le Conte, [1837]), Palmetto Skipper, FL, S GA, S AL, S MS
- Euphyes vestris harbisoni* J. Brown & McGuire, 1983, Dun Skipper, S CA
- Euphyes vestris vestris* (Boisduval, 1852), Dun Skipper, N CA to BC, ID
- Euphyes vestris kiowah* (Reakirt, 1866), Dun Skipper, SE WY, CO, NM, AZ, far NW Mexico; univoltine
- Euphyes vestris metacomet* (T. Harris, 1862), Dun Skipper, E USA, SE Canada, NE Mexico; univoltine to multivoltine
- Euphyes chamuli* H. Freeman, 1969, Chamul Skipper, Chiapas & Guatemala
- Euphyes peneia* (Godman, 1900), Guardpost Skipper, E & W Mexico to Ecuador & Brazil
- Euphyes antra* Evans, 1955, Antra Skipper, SE Mexico (OAX) to Peru
- Euphyes ampa* Evans, 1955, Ampa Skipper, S Mexico to Honduras, Nicaragua

- Euphyes canda Steinhauser & A. Warren, 2002, Candelaria Skipper, W Mexico (Nayarit to Oaxaca)
- Metron leucogaster leucogaster (Godman, 1900), Whitened Metron, Panama, Colombia
- Metron chrysogastra chrysogastra (Butler, 1870), Orange-headed Metron, E & W Mexico to Colombia, Venezuela, Trinidad
- Metron zimra (Hewitson, 1877), Olive Metron, [= fasciata], S Mexico (Chiapas) to Argentina
- Phemiades rufescens Steinhauser & Austin, 1993, Rufous Skipper, Chiapas, Mexico and Costa Rica
- Molo mango (Guenée, 1865), Mango Skipper, Costa Rica to C Brazil
- Molo muzo Evans, 1955, Muzo Skipper, Costa Rica to Colombia
- Molo calcarea ponda Evans, 1955, Ponda Skipper, Costa Rica to Colombia
- Racta apella apella (Schaus, 1913), Apella Skipper, Costa Rica to Ecuador
- Pyrrhocalles antiqua eleutherae (M. Bates, 1934), Caribbean Skipper, Eleuthera and Andros, Bahamas
- Pyrrhocalles antiqua antiqua (Herrich-Schäffer, 1863), Caribbean Skipper, Hispaniola
- Pyrrhocalles antiqua orientis Skinner, 1920, Caribbean Skipper, Cuba
- Pyrrhocalles jamaicensis (Schaus, 1902), Jamaican Skipper, Jamaica
- Asbolis capucinus (Lucas, 1857), Monk Skipper, Cuba, N Bahamas, S & C Florida
- Quinta cannae (Herrich-Schäffer, 1869), Canna Skipper , E & W Mexico to Argentina
- Cynea irma (Möschler, 1879), Fogged Skipper, E Mexico to S Brazil
- Cynea corisana (Plötz, 1882), Corsiana Skipper, Nicaragua to Venezuela
- Cynea popla Evans, 1955, Popla Skipper, Panama to S Brazil, Guianas, Trinidad
- Cynea megalops (Godman, 1900), Megalops Skipper, [= Papias nigrans], E Mexico to Colombia & W Ecuador
- Cynea diluta (Herrich-Schäffer, 1869), Diluted Skipper, S Mexico to S Brazil
- Cynea cynea (Hewitson, 1876), Cynea Skipper, S Mexico to Venezuela & Brazil
- Cynea nigricola H. Freeman, 1969, Nigricola Skipper, S Mexico
- Cynea anthracinus anthracinus (Mabille, 1877), Anthracinus Skipper, S Mexico, Guatemala
- Cynea anthracinus holomelas (Mabille, 1891), Anthracinus Skipper, Costa Rica to Peru, Guianas
- Cynea corope (Herrich-Schäffer, 1869), Corope Skipper, Belize, Nicaragua

- Oeonus pyste Godman, 1900, Veracruz Skipper, SE Mexico
- Orthos orthos orthos (Godman, 1900), Orthos Skipper, Panama, Trinidad, Peru
- Orthos lycortas (Godman, 1900), Lycortas Skipper, E Mexico, Belize
- Orthos gabina (Godman, 1900), Gabina Skipper, E Mexico to Costa Rica
- Conga chydaea (Butler, 1877), Hidden-ray Skipper, S TX to Argentina
- Holguinia holguin Evans, 1955, Holguin Skipper, Cuba
- Decinea decinea huasteca (H. Freeman, 1969), Huastecan Skipper, E Mexico
- Decinea decinea derisor (Mabille, 1891), Huastecan Skipper, Costa Rica to Colombia, Guianas, Amazon basin
- Decinea zapota Evans, 1955, Zapota Skipper, Guatemala
- Decinea rindgei H. Freeman, 1969, Rindge's Skipper, S Mexico
- Decinea percosius (Godman, 1900), Double-dotted Skipper, S TX, E & SW Mexico to Guyana
- Decinea lucifer (Hubner, [1831]), Lucifer Skipper, W Mexico to Argentina
- Decinea mustea H. Freeman, 1979, Muste Skipper, W Mexico (Colima, Chiapas)
- Oligoria maculata (W. H. Edwards, 1865), Twin-spot Skipper, SE USA (E TX to FL, N to NC)
- Atrytonopsis hianna hianna (Scudder, 1868), Dusted Skipper, New England to SE SASK, S to GA, AR & LA
- Atrytonopsis hianna turneri H. Freeman, 1948, Dusted Skipper, E MT, E WY, E CO, NE NM, ND to N-central TX
- Atrytonopsis loammi (Whitney, 1876), Loamm's Skipper, FL, SC, formerly far S NC
- Atrytonopsis sp. undescribed, Crystal Skipper, Islands off Carolina coast
- Atrytonopsis deva (W. H. Edwards, 1877), Deva Skipper, C & SE AZ, SW NM, NW to S-central Mexico
- Atrytonopsis lunus (W. H. Edwards, 1884), Moon-marked Skipper, C & SE AZ, SW NM, SON
- Atrytonopsis zweifeli H. Freeman, 1969, Zweifel's Skipper, Northeast Mexico
- Atrytonopsis frappenda (Dyar, 1920), Pedregal Skipper, South-central Mexico
- Atrytonopsis llorentei A. Warren, 2009, Llorente's Skipper, West-central Mexico (MICH, MEX, SIN)
- Atrytonopsis vierecki (Skinner, 1902), Viereck's Skipper, SW & SE UT, S CO, AZ, NM, far W OK, N & W TX, N COAH



Atrytonopsis pittacus (W. H. Edwards, 1882) (Typical segregate), White-barred Skipper, C & SE AZ, SW NM, W TX, SON

Atrytonopsis pittacus (W. H. Edwards, 1882) (Southern segregate), White-barred Skipper, SW Mexico (AGS, GRO, OAX)

Atrytonopsis python (W. H. Edwards, 1882), Python Skipper, far S NV, AZ, NM, W TX, CHIH, SON

Atrytonopsis cestus (W. H. Edwards, 1884), Cestus Skipper, far NW Mexico (SON), SE AZ

Atrytonopsis austinatorum A. Warren, 2011, Austins' Skipper, Jalisco, Mexico

Atrytonopsis edwardsi W. Barnes & McDunnough, 1916, Sheep Skipper, N-central and NW Mexico, S AZ, SW NM, W TX

Atrytonopsis ovinia (Hewitson, 1866), Ovinia Skipper, [= *zaovinia*], S-central Mexico to Costa Rica

Tirynthia conflua (Herrich-Schäffer, 1869), Conflua Skipper, E Mexico to Argentina

Nyctelius nyctelius nyctelius (Latreille, [1824]), Violet-banded Skipper, Nyctelius Skipper, Greater Antilles, Virgin Islands, S Texas to Argentina

Nyctelius nyctelius agari (Dillon, 1947), Violet-banded Skipper, Nyctelius Skipper, Lesser Antilles

Thespiesus dalman (Latreille, [1824]), Chalk-marked Skipper, E & W Mexico to Argentina

Thespiesus macareus (Herrich-Schäffer, 1869), Chestnut-marked Skipper, TX (one-time stray), E & W Mexico to Venezuela

Thespiesus aspernatus Draudt, 1923, Aspernatus Skipper, SE Mexico to Venezuela, S Brazil & Paraguay

Thespiesus othna tinka Evans, 1955, Othna Skipper, Panama & Colombia

Vacerra litana (Hewitson, 1866), Litana Skipper, [= regional records for *bonfilus aeas*], E & W Mexico to Guianas

Vacerra egle (Hewitson, 1877), Egle Skipper, Nicaragua, Panama

Vacerra gayra (Dyar, 1918), Gayra Skipper, E & W Mexico, Belize

Vacerra lachares Godman, 1900, Lachares Skipper, Costa Rica

Vacerra cervara Steinhauser, 1974, Cervara Skipper, E & W Mexico to Panama

Vacerra caniola caniola (Herrich-Schäffer, 1869), Caniola Skipper, Guatemala to Venezuela

Lindra brasus brasus (Mielke, 1968), Brasus Skipper, Belize, Brazil

Oxyntes corusca (Herrich-Schäffer, 1869), Corusca Skipper, E & S Mexico to Bolivia & Brazil

Xeniades orchamus orchamus (Cramer, 1777), Smear-spotted Skipper , E & W Mexico to Argentina

Xeniades chalestra pteras Godman, 1900, Band-spotted Skipper, S Mexico (OAX, CHIS) to Colombia & Venezuela.

GLOSSARY OF ACRONYMS



Acronym: Institution Name and Location (see more museum name abbreviations here)

[AMNH]: American Museum of Natural History (New York, NY, USA)

[ANSP]: Academy of Natural Sciences Philadelphia (Philadelphia, PA, USA)

[BMNH]: British Museum of Natural History (London, Great Britain)

[CMNH]: Carnegie Museum of Natural History (Pittsburgh, PA, USA)

[CSU]: Gillette Museum of Arthropod Diversity, Colorado State University (Fort Collins, Colorado, USA)

[IBUNAM]: Instituto de Biología, Universidad Nacional Autónoma de México (Mexico City, Mexico)

[INBIO]: Instituto Nacional de Biodiversidad (Santo Domingo de Heredia, Costa Rica)

[LACM]: Los Angeles County Museum of Natural History (Los Angeles, CA, USA)

[MCZ]: Museum of Comparative Zoology, Harvard University (Cambridge, MA, USA)

[MGCL]: McGuire Center for Lepidoptera and Biodiversity, Florida Museum of Natural History, University of Florida, (Gainesville, FL, USA)

[MEM]: Mississippi Entomological Museum, Mississippi State University (Mississippi State, MS, USA)

[MNHN]: Muséum National d'Histoire Naturelle (Paris, France)

[MNHU]: Museum für Naturkunde der Humboldt Universität (Berlin, Germany)

[MUSM]: Universidad Nacional Mayor de San Marcos, Museo de Historia Natural (Lima, Peru)

[MZFC]: Museo de Zoología, Facultad de Ciencias, Universidad Nacional Autónoma de México (Mexico City, Mexico)

[SDMNH]: San Diego Museum of Natural History (San Diego, CA, USA)

[USNM]: United States National Museum [of Natural History], Smithsonian Institution (Washington, DC, USA)

[ZMHB]: Museum für Naturkunde der Humboldt-Universität (Berlin, Germany)

GLOSSARY OF LEPIDOPTERA TERMS



Abdomen: The last body section, behind the thorax.

Aberration: An abnormal phenotype, usually in wing pattern or color, which may be caused by genetic, environmental, or developmental factors (14).

Adaptation: A feature of an organism that evolved by natural selection because it performed a certain function better than its antecedents (20). See “natural selection”.

Adaptive radiation: The production of several or many new species from a common ancestor, usually when the ancestor invades a new and empty habitat (20). The radiation is “adaptive” because the genetic barriers between species arise as by-products of natural selection adapting populations to their environments (20). In the subfamily Pierinae, the shift from Fabales (legumes and allied plants) to Brassicales (crucifers and related plants containing glucosinolates), followed by further shifts from Brassicales to Santalales (‘mistletoes’), has led to adaptive radiation (21).

Adult: The breeding, final, and most conspicuous stage of the butterfly life cycle; sometimes called the “imago”. The lifespan of adult butterflies ranges from a few weeks to several months, depending on species and environment (1).

Aedeagus: The male intromittent organ (organ specialized to deliver sperm) in butterflies (14).

Alkaloids: A large class of secondary plant compounds, many of which are produced by specific plant families or genera and which may be important in host-plant selection by butterflies (14).

Allochronic: Active at different seasons or times (14). Compare “synchronic”.

Allopatric: Occurring in different areas. Allopatry is suggested to be the primary means of evolutionary radiation through adaptations to differing conditions or habitats in different areas (1). Compare “sympatric”.

Allotype: The term may be used to indicate a specimen of opposite sex to the holotype; allotypes have no name-bearing function (9).

Ampulla: A process (often finger-like) arising from the inner side of the valva.

Anal angle: The area enclosed by the inner and outer margins of the hindwing (17).

Anal fold: A fold on the inner margin of the hindwing (17).

Annellus: Membranous sheath enclosing the aedeagus.

Androconium: A modified wing scale on some male butterflies that secretes or disperses pheromones, as in courtship (14). (plural: androconia). Compare “stigma”

Annulated: Consisting of ring-like segments or divisions (usually referring to the antennae).

Ant-butterfly association: See "myrmecophily".

Antenna: Either of two long, filamentous appendages on the insect head (15). (plural: antennae). See Figures "1" and "2" depicting antennae for examples of antennae and descriptive nomenclature.

Apical: The area at or near the wing tip, or apex. Compare "basal".

Apiculus: The hooked extension of the antennal club in hesperiids.

Aposematism: Bright, contrasting colors that advertise the unpalatability of an organism to predators (14). Also known as warning coloration. See "mimicry".

Areole : A small subdivision at the base of the wing cell, or a small window on the upper side of a wing scale (8). (plural: areolae).

Automimicry: Protective resemblance afforded palatable members of a species by their close resemblance to unpalatable individuals (14). See "mimicry".

Band: A line of color that runs from the dorsal to the ventral sides of the caterpillar (the entire distance or only a portion of the distance) (11).

Background extinction: The steady extinction at all geological periods of a certain number of individual species (22). Compare "mass extinction".

Basad: Towards the wing base (14)

Basal: The area at or near the wing base. Compare "apical".

Basking: A thermoregulatory activity where butterfly species orient themselves to gather incoming solar radiation, usually more common in the cooler hours of the morning.

Batesian mimicry: The mimicry of an unpalatable species (model) by a palatable one (mimic) (14). Compare "Mullerian mimicry".

Biennial: Having a two-year cycle.

Bird-butterfly association: An association observed in the Central and South America tropics where many hesperiids (skippers) and some ithomiines (tiger-mimics, glasswings) feed on the liquefied droppings of certain species of antbirds (Formicariidae) and woodcreepers (Dendrocolaptidae) attracted to army ant swarms (Formicidae: Ecitoninae) (19)

Bivoltine: Having two flights per year (14).

Brood: A single generation of a population during which the adults emerge more or less synchronously (16).

Bursa copulatrix: Internal female copulatory duct, consisting of the ductus bursae and corpus bursae (7). A sac in the female abdomen wherein the spermatophore is stored and digested (after the sperm are released) (15).

Cardenolides: A class of secondary plant compounds found mostly in the milkweed and dogbane families, involved in host selection by species feeding on these plants and



commonly sequestered by them for their own defense against predators (14). Also called cardiac glycosides (14).

Caterpillar: The worm-like, juvenile stage (between egg and pupa) of butterflies and moths; also called the larva. See Figures "1" and "2" depicting larvae for examples of caterpillars and descriptive nomenclature.

Cell: Any area of the wing surrounded by veins (3); however, the word "cell" used alone often refers to the discal cell (15). Most cells (other than the discal cell) are labeled according to the vein in front of them, e.g., cell M2 is behind vein M2 (15). See "discal cell".

Cervical shield: A heavily pigmented, sclerotized area behind the head of many caterpillars, especially hesperiids (14).

Chevron: A "V" shaped mark on a caterpillar (11).

Chorion: The eggshell, often ornately sculptured (14).

Chrysalis: The hard case in which a caterpillar transforms into an adult (11); also known as a pupa.

Cilia: Fine hairs along the edges of the wing (8).

Clade: The set of all species descended from a single ancestral species.

Cladistics: A methodology in systematics whereby taxa are hierarchically clustered according to inferred relative recency of common ancestry.

Cline: A gradual, progressive, usually continual change in physical characteristics over the geographic or altitudinal range of a species.

Club: The thickened terminal section of the antenna. In papilionids the antennae end in a club, while in hesperiids they end in a hooked extension of the club. See "apiculus".

Clypeus: The sclerotized plate near the bottom front of the head, attached to the labrum below the antennae.

Coevolution: The parallel evolution of two kinds of organisms that are interdependent, or where at least one depends on the other, and where any change in one will result in an adaptive response in the other (22). A classic example of coevolution is the relationship between butterflies and their larval foodplants (26).

Collar: The dorsal plate behind the head of a caterpillar, usually dark in color (11).

Colonist: A taxon that periodically establishes breeding populations in a region but not usually as permanent breeding residents(1).

Colony: A term loosely applied to a local population of butterflies that persists at one location for a number of years (16). An isolated population (15).

Congeneric: Belonging to the same genus.

Conspecific: Belonging to the same species.



Costa: The heavily reinforced vein forming the leading edge of the wing (14).

Costal fold: A flap containing scent scales on the leading edge of the forewing in many males and some females (15).

Costal margin: The area of the wing adjacent to the costa (3).

Coxa: The first segment of the leg (nearest the body), attached to the thorax (15). (pl. coxae).

Cremaster: A hook-bearing structure at the tail end of a pupa, used to anchor the animal to a silken pad (14).

Crenulate: Scalloped.

Crepuscular: Active at dusk or dawn, or in dim light.

Crochets: Tiny hooks on the bottoms of the prolegs of larvae and on the cremasters of pupae, often occurring in species-specific patterns (15).

Crypsis: Concealing coloration or camouflage, which may entail a generalized or highly specific resemblance to the background or to an object of no interest to a visual predator (14).

Cubital: Pertaining to the wing veins (3).

Cucullus: The distal portion of the male valva or clasper.

CV: Costal vein.

DCV: Disco-cellular vein.

Deme: A local population of potentially interbreeding individuals (22).

Dentate: Having a toothed wing margin.

Diapause: A type of dormancy characterized by developmental arrest (14). True diapause is under hormonal control and not simply in response to environmental conditions (14). Compare "estivation" and "hibernation".

Dimorphism: The occurrence of two distinct forms within the same population. Compare "sexual dimorphism" and "seasonal dimorphism".

Discal: The central portion of the wing from costa to inner margin (17).

Discal cell: The cell that extends roughly from the base to the middle of the wing (15).

Dorsal: Pertaining to the upper surface, visible when the wings are held open (1).

Dorsal-basking: A mode of thermoregulation in which the wings are opened broadly to incoming solar radiation (14).

Dorsal nectary organ: In the larvae of many species of lycaenids, a gland located in the dorsal region of the 7th abdominal segment producing a sweet substance attractive to ants (17).

Dyar's law: An empirical generalization in which successive larval instars in Lepidoptera are related by a constant size multiplier, enabling one to use the shed head capsules to determine the number of molts (14).

Ecdysis: Molting or shedding by a caterpillar.

Eclosion: The emergence of the adult butterfly from the chrysalis (16).

Ecotype: An ecological "race" of an organism that is distinct from other related taxa because of different ecological or environmental associations, though it may not be taxonomically named(1). See "race".

Egg: The initial live stage of insects. Eggs are normally placed by the adult female on suitable plants that can provide nutrition for the developing larvae, although chemical cues can be misinterpreted and eggs are sometimes placed on inappropriate substrates (1)

Endemic: An organism, population, or species that is restricted to a limited geographic area or type of environment (1) (14).

Endophagous: A caterpillar that feeds internally in a foodplant concealed from most predators (e.g. *Megathymus* skippers).

Epigamic behavior: See "mate-locating behavior".

Epiphysis: Articulated process on the tibia (unique to Lepidoptera), used to clean the antenna (7).

Estivation: Dormancy during summer heat or drought. May or may not involve diapause (14). Compare "diapause" and "hibernation".

Evolution: Genetic change in populations, often producing changes in observable traits of organisms over time (20). See "natural selection".

Exophagous: A caterpillar that feeds externally on a foodplant, either exposed or hidden part-time in a nest.

Extant: A taxon having living representatives, or a specimen still in existence (9).

Extinct: A taxon with no living representatives (9).

Extirpated: No individuals of a taxon survive in a location where they formerly occurred, but the taxon itself is still extant.

Exuvium: The cast skin of a larva (17).

Eyespot: Markings, usually on the surface of the fore- or hindwings, often consisting of two or more concentric circles with a dark center that resemble a mammalian eye.

F or FW: Forewing.

Family: The nested rank between order and genus in the Linnaean system (1). Six butterfly families are recognized in North and Central America: Papilionidae (swallowtails and parnassians), Pieridae (whites and sulfurs), Lycaenidae (coppers, hairstreaks, and blues;

a.k.a. the gossamer-wings), Riodinidae (metalmarks; placed within Lycaenidae by some authors), Nymphalidae (brushfoots, including fritillaries, checkerspots, crescents, admirals, satyrs, and monarchs), and HesperIIDae (skippers) (1).

Femur: The third segment of the leg (the first long movable segment), between the trochanter and the tibia (15).

Filaments: Fleshy appendages on caterpillars (11).

Flagellum: The distal segment of the antennal shaft in insects.

Flight: A single generation of adults (15).

Flight period: The time of year when adults of a given species can be found.

Forewing: The front pair of wings on an insect (closer to the head). The forewings provide structural support and are the primary mechanisms of lift for flight. Species with pointed forewings are generally faster, more direct fliers, while those with rounded forewings are usually slower and more maneuverable (1).

Form: A broad, informal term referring to various kinds of phenotypic variation, both polymorphic and polyphenic (14).

Frass: Caterpillar excrement or droppings.

Frons: The area between the eyes on the front of the head, often bearing a hair-like tuft (17).

Generation: All the individuals of a single life cycle (from egg to adult) in a single population (15).

Genitalia: The reproductive organs of adult butterflies, located in the terminal abdominal segments. The genitalia are often of diagnostic value in butterfly taxonomy (14). See male genitalia figures "1", "2" and "3" and female genitalia figures "1" and "2" for examples of male and female genitalia and descriptive nomenclature.

Genus: The nested rank between family and species in the Linnaean system (1).

Geographic speciation: Speciation that begins with the geographic isolation of two or more populations, which subsequently develop into species-level taxa.

Girdle: A silken thread supporting the midsection of a chrysalis (17). Found especially in the papilionids.

Glucosinolates: A class of secondary plant compounds restricted largely to the mustard family and its close relatives, involved in host selection by the Cabbage White (*Pieris rapae*) (14). Also known as mustard oil glycosides (14).

Granulosis: A common inclusion-body disease of butterfly larvae (14)

Gravid: Pertaining to a female butterfly carrying eggs.

Gulching: A mate-locating behavior where males aggregate in gullies or washes to wait for or search for receptive females (2).

Gynandromorph: An individual that contains both male and female characteristics; also known as a sexual mosaic. When one side is female and the other male it is known as a bilateral gynandromorph (14).

H or HW: Hindwing.

Hair pencils: Hair-like structures on the legs or abdomens of some butterflies (e.g., *Danainae*) that are believed to aid in the dissemination of pheromones during courtship.

Hemolymph: The body fluids ("blood") of insects. Hemolymph does not usually carry oxygen and thus does not have a respiratory pigment like hemoglobin (14).

Hibernaculum: Winter nest or shelter.

Hibernation: Dormancy during the winter, which may or may not involve diapause (14). Compare "estivation" and "diapause".

Hilltopping: A mate-locating behavior where males aggregate on hilltops or ridges to wait for or search for receptive females (2).

Hindwing: The rear pair of wings on an insect. The hindwings primarily are used for stability and increased surface area in flight. When butterflies land with their wings closed (and most do), the ventral hindwing is the primary wing surface observed. Some species have complex color patterns and designs on this wing surface, including eyespots and tails that may draw the attention of predators away from more "critical" areas of the body like the head and forewings. These patterns also can serve as important means of species recognition in courtship (demonstrably so in the *Lycaeides* blues). In others, like *Ceryconis* wood nymphs, ventral hindwings are cryptic and serve as camouflage (1).

Holometabolous: An insect that undergoes complete metamorphosis (egg, larva, pupa, and adult).

Holotype: The single specimen upon which a new nominal species-group taxon is based in the original publication; a holotype is a specimen with a name-bearing function (9).

Homonym: [1] In the family group: each of two or more available names having the same spelling, or differing only in suffix, and denoting different nominal taxa. [2] In the genus group: each of two or more available names having the same spelling, and denoting different nominal taxa. [3] In the species group: each of two or more available specific or subspecific names having the same spelling, and established for different nominal taxa, and either originally (primary homonymy) or subsequently (secondary homonymy) combined with the same generic name (9).

Honeydew: A sweet liquid secreted by some aphids, scale insects, and lycaenid butterfly larvae as a byproduct of their feeding. Also, a sugary exudate that accumulates on the surface of certain cynipid wasp galls. These galls are often actively tended by ants, which collect the honeydew and drive off parasitoids attempting to attack the gall wasp (12). In addition to ants, the honeydew is used as a food source by some adult butterflies, for example Colorado Hairstreak (*Hypaurotis crysalus*). See also "myrmecophily".

Hyaline spots: Translucent, glass-like spots on the wings of some butterflies (17).

Hybrid zone: An area of overlap between two species or sub-specific types where hybridization takes place. North American admiral butterflies (genus *Limenitis*) have historically been of interest because hybridization between nominal species is widespread, with perhaps the most dramatic example involving hybridization zones between mimetic (*Limenitis arthemis astyanax*) and nonmimetic (*Limenitis a. arthemis*) populations (27).

Imaginal discs: Clusters of embryonic cells that give rise to the structures of the adult during the late larval and pupal stages (14).

Imago: See "adult".

Inclusion-body diseases: A group of diseases of certain caterpillars and other insects in which infective virus is shed within characteristic protein crystals ("inclusion bodies") that are very resistant to degradation in the environment (14).

Influx species: In the southwestern U.S. in particular, a species that enters the region annually from other deserts, thornscrub habitats, and mountain ranges in northern Mexico, with the intensity of the influx thought to be related to the strength, time of onset, and duration of the summer rainy season. Many of these visitors breed and comprise a significant or even dominant portion of the summer butterfly fauna, while others find no suitable plants to serve as larval hosts.

Infuscated: Washed or densely shaded with black or gray (14).

Instar: The period between larval molts. Most butterfly larvae molt their exoskeleton about 5 times and therefore have 6 instars, but environmental conditions can alter the number (1).

International Commission of Zoological Nomenclature (ICZN): The ICZN is an organization that acts as adviser and arbiter for the zoological community by generating and disseminating information on the correct use of the scientific names of animals, and is responsible for producing the International Code of Zoological Nomenclature - a set of rules for the naming of animals and the resolution of nomenclatural problems (9).

Irruptive: Species that invade periodically from an adjacent or distant area.

Johnston's organ: A sensory organ found in the antennal pedicel (second segment) that serves to detect movements or vibrations of the antennal flagellum relative to the rest of the body.

Juxta: In the male genitalia of most lepidoptera, the sclerite located between the valvae and below the aedeagus; usually serving as a support for the sheath of the aedeagus.

Junior Synonym: Of two synonyms: the later established, or in the case of simultaneous establishment that not given precedence under Article 24 (9).

Labial palp: In adults, either of the paired structures found on each side of the proboscis, between which the proboscis is coiled (3). The labial palps serve a sensory function.

Lamella antevaginalis: In the female genitalia of most lepidoptera, a sclerite located anterior to the copulatory opening.

Lamella postvaginalis: In the female genitalia of most lepidoptera, a sclerite located posterior to the copulatory opening.

Larva: (plural: larvae). See "caterpillar".

Larval foodplant: Any plant eaten by larvae and on which the eggs are normally laid (15). Also known as larval hostplant. Foodplant specificity can vary greatly across butterfly species, ranging from only one plant species to dozens of suitable plant species, and can promote speciation between two or more groups of closely related taxa through reproductive isolation (1). Prime examples of this are *Euphilotes* blue butterflies and some *Apodemia* metalmarks that almost exclusively use different species or varieties of buckwheats (*Eriogonum*) (1).

Lateral-basking: A mode of thermoregulation in which one side of the body or wing is exposed to incoming solar radiation (14). The wings are closed and the animal leans so that its plane is perpendicular to the sun's rays (14).

Lectotype: Designated from syntypes as the single name-bearing type specimen subsequent to the establishment of a nominal species or subspecies (9).

Lek: A site where males of a species congregate to attract females, or where females are instinctively programmed to seek them (14). Within the lek, males may be territorial (14). Sites where male hairstreaks perch in numbers can fairly be called leks (14).

Lepidoptera: The order of insects comprising butterflies and moths. The second largest order of animals on earth with about 180,000 described species worldwide, although only 10-15% of Lepidoptera are butterflies (1).

Lepidopterology: The scientific study of butterflies and moths.

Local: When populations of an organism are found only in small patches, even though those populations may be very abundant or the overall geographic range of the organism is vast. For example, populations of the Arctic Skipperling (*Carterocephalus palaemon*) are found in very small areas but the species has a circumboreal distribution (1).

Lunule: Crescent marks usually found along the margin of the wing (8).

Macroevolution: "Major" evolutionary change, usually thought of as large changes in body form or the evolution of one type of plant or animal from another type (20). Evolution above the species level (22). Although macroevolution involves a large evolutionary change, it can perhaps best be understood as the sum of many microevolutionary steps over a very large time scale. Compare "microevolution".

Marginal: Along the outer edge of the wing.

Mass extinction: The extermination of a large proportion of the biota by a climatic, geological, cosmic, or other environmental event (22). Compare "background extinction".

Mate-locating behavior: Behavior that functions to bring the sexes together (14); also called epigamic behavior. Most authors divide mate-locating behavior into two main categories relating to the situation in which the sexes meet: "perching" and "patrolling" (2). In this definition, "hilltopping", "gulching", and "treetopping", for example, are not considered

alternatives to patrolling and perching but are seen as systems that reduce the total area where the males may engage in patrolling or perching (2); with small sites called leks by some authors.

Maxillary galea: The two elongated structures that form the proboscis in adult butterflies.

Meconium: The waste products of metamorphosis, often red or pink, voided by the recently emerged adult, usually prior to flight (14).

Medial vein: The fourth wing vein and its three branches (3).

Median: The area of the wing halfway between the base and the apex (3).

Mediobasal: Central transverse line of the basal area (17).

Mediodiscal: Central transverse line of the wing; bisecting the discal area (17).

Melanic: A dark or blackish form of a species.

Mesothorax: The second (middle) segment of the thorax.

Metapopulation: A set of local populations interconnected by occasional exchange of individuals and genes (14).

Metathorax: The third (posterior) segment of the thorax.

Microevolution: "Minor" evolutionary change, such as the change in size or color of a species (20). Evolution at or below the species level (22). Compare "Macroevolution".

Migration: The systematic dispersal of organisms. In butterflies, migrations may be latitudinal, altitudinal, or both and usually have a seasonal component (14).

Mimicry: The resemblance of two or more unrelated organisms, where there is adaptive benefit to one, both, or all (14). Near the center of its historic range, the Pipevine Swallowtail (*Battus philenor*) acquires dangerous chemicals from its larval foodplant and is unpalatable and has no mimics, but in the southeastern U.S. (as inferred from genetic studies), it is mimicked by several unrelated butterfly species (1). See "Batesian mimicry" and "Mullerian mimicry".

Molt: To shed the larval skin or exoskeleton (11).

Monandry: A breeding system in which a female mates with only one male.

Monophagous: Narrowly specialized in larval foodplant choice, feeding on just one family, genus, or species of plants (14).

Morph: Any of the individual forms or phenotypes found in a polymorphic species. See "polymorphism".

Morphospecies: A taxon whose description is based solely on morphological data, without the support of genetic or ecological information (1).

Mullerian mimicry: A type of mimicry in which two or more unpalatable species display very similar phenotypes, which allows predators to learn to avoid that particular phenotype (14). Compare “Batesian mimicry”.

Multivoltine: Having three or more flights per year (14).

mv: Median vein.

Myrmecophily: Associating with ants. The larvae of many lyceanids are regularly attended by ants (15). In many cases these associations are mutualistic whereby the butterfly caterpillar secretes nutritious solutions from specialized glands (honey gland or dorsal nectary organ) in exchange for protection from predators and parasites (6). However, some associations between lycaenids and ants are parasitic with the lycaenid caterpillar preying on the ant brood or being fed by ants as nestinquilines (13).

Name-bearing type: The type genus, type species, holotype, lectotype, series of syntypes (which together constitute the name-bearing type) or neotype that provides the objective standard of reference for the naming of a taxon (9).

Naturalized: Self-perpetuating in a new environment without human assistance (e.g., Cabbage White [*Pieris rapae*]) (14).

Natural selection: The “nonrandom”, differential reproduction of alleles (a form of a given gene produced by mutation) from one generation to the next (20). Although mutations occur randomly, it is the “nonrandom” filtering of that variation by natural selection that produces adaptations (20). Natural selection requires only that individuals of a species vary genetically in their ability to survive and reproduce in their environment (20).

Nectaring: The act of feeding on the nectar of flowering plants.

Neo-Darwinism: The current theory of the process of evolution, combining the Darwinian theory of evolution by natural selection with modern knowledge of genes and chromosomes to explain the source of the genetic variation upon which selection works.

Neotype: The single specimen designated as the name-bearing type of a nominal species or subspecies when there is a need to define the nominal taxon objectively and no name-bearing type is believed to be extant (9).

Nest: The structure made by many caterpillars (consisting of leaves, silk, and/or ground debris) for concealment when not feeding.

Nominate subspecies: The subspecies containing the type specimen of a species and thus carrying the name of the species, for example, *Hesperia colorado colorado* (14).

Nudum: The scaleless area on the tip of the antenna, especially in hesperiids, where scent detectors are common (15).

Nuptial gifts: The term used to describe the nutrients (amino acids, proteins, lipids, hydrocarbons, and water) the male butterfly in some species transfers, including the spermatophore, to the female during mating (5).

Objective synonym: Each of two or more synonyms that denote nominal taxa with the same name-bearing type(s) (9).

Obtect: Rounded, without prominences (14).

Oligophagous: Moderately specialized in larval foodplant selection, feeding on plants of only a few plant families (14).

Ommatidium: Each facet or individual eye in the adult compound eye; also, each eye of the larva (15). (plural: ommatidia).

Order: The rank nested between class and family in the Linnaean system (1). All butterflies and moths are in the order Lepidoptera.

Osmeterium: An eversible, fleshy gland on the first thoracic segment of a papilionid caterpillar, which generally produces a defensive secretion that has a pungent odor. (plural: osmeteria).

Overwintering stage: The stage (egg, larva, pupa, or adult) in which butterflies hibernate through the winter months. Different species hibernate in different stages, and this affects the timing of activity by adults during the warmer months (1).

Oviposit: To lay one or more eggs.

Ovipositor: A pair of structures located at the tip of the female abdomen through which eggs are laid.

Ovum: See "Egg". (plural: ova)

Panmictic: Pertaining to populations and species of such great dispersal capacity that there is complete interbreeding of populations from all parts of their range (22). For example, a widespread Old World butterfly, *Lampides boeticus* (Lycaenidae), is apparently panmictic with very little genetic variation across large geographic distances (23).

Paralectotype: Each specimen of a former syntype series remaining after the designation of a lectotype; paralectotypes have no name-bearing function (9).

Parasitoid: An organism that is free-living as an adult but whose larva feed on or in a single host organism. Parasitoids are among the most important natural enemies of butterflies and include many species of small wasps and flies (14).

Paratype: Each specimen of a type series other than the holotype; paratypes have no name-bearing function (9).

Partial flight: A group of adults that have emerged from pupation while most of their generation remains in diapause (15).

Patrolling: A mate-locating strategy in which male butterflies continuously fly considerable distances to actively seek out receptive females.

pcv: Precostal vein.

Pedice: The second segment of the antennal shaft in insects.



Perching: A mate-locating strategy in which male butterflies wait at certain sites for females to arrive, and fly out to investigate passing butterflies to see if they are receptive females.

Pharate adult: The completely developed adult as visible within the pupal case before emergence (14)

Phenology: The study of the timing (seasonality) of biological events (14). In butterflies this includes the timing of development through metamorphosis, adult flight periods, and breeding through the year (1).

Phenotype: The appearance of an organism, particularly with reference to a particular character (14); examples include the patterns of differently colored scales on the wings of butterflies (1).

Pheromone: A chemical secreted by one organism and that induces specific developmental, physiological, or behavioral changes in another of the same species (14)

Phylogeny: The inferred lines of descent of a group of organisms, including a reconstruction of the common ancestor and the amount of divergence of the various branches (22). For an example of how phylogenetic trees are reconstructed see <http://butterfliesofamerica.com/knowhow/LBA.htm>

Phylogeography: A method using genetic data in a geographic context to reconstruct the history and historical distribution patterns of populations (14). Phylogeographic studies suggest that the family Nymphalidae originated in the Cretaceous at 90 million years ago, and that only 10-12 lineages survived the end-Cretaceous mass extinction in the Neotropical and Oriental regions before dispersing widely (24).

Polyandry: A breeding system in which a female mates with more than one male.

Polyhedrosis: A common group of inclusion-body diseases of caterpillars (14). See "inclusion-body diseases".

Polymorphism: The occurrence within a population or species of multiple phenotypes or forms; currently usually restricted to cases where the forms are under direct genetic control (14). This definition excludes seasonal forms. Compare "polyphenism".

Polyphenism: The occurrence within a population or species of multiple phenotypes or forms that are induced by environmental influences such as photoperiod or temperature (14). Seasonal forms (e.g., spring vs. summer form, dry season vs. wet season form) in butterflies are polyphenic (14). Compare "polymorphism".

Population: A group of butterflies belonging to the same species and occupying a defined area (14). Compare "metapopulation".

Postbasal: That area of the wing that lies just beyond the base (3)

Postdiscal band: The band located between the discal and submarginal areas on the wings of some butterflies (17).

Postmedian: That area of the wing that lies just beyond the median, or central, portion (3).

Prepupal: The inactive stage (last larval instar) when the larva prepares to pupate.

Primary seta: Any of the few hairs (setae) present on nearly all moth and butterfly first-stage larvae.

Principle of Priority: The principle that the valid name of a taxon is the oldest available name applied to it (taking into consideration the other provisions of Article 23), provided that the name is not invalidated by any provision of the Code or by any ruling by the Commission (9).

Proboscis: The feeding tube of adult Lepidoptera, kept coiled beneath the head when not in use (14).

Proleg: Any of the ten false legs on the posterior segments of a larva (15).

Protandry: The earlier adult emergence (or arrival) of males than of females (2).

Prothorax: The first (anterior) segment of the thorax.

Pulvillus: The pad between the tarsal claws on the leg (3).

Puddling: The aggregation of butterflies at mud (usually restricted to young males), thought to represent a method of harvesting mineral salts for physiological use (14).

Pupa: (plural: pupae). See "Chrysalis" also see pupa illustration.

Pupal mating: A strategy in which males locate clutches of pupae, inspect them for several days, eventually compete for a position on one of the pupae, and mate with the emerging female (4).

Pupate: To transform into a pupa or chrysalis (18).

Race: An informal term, not recognized in taxonomy, for subdivisions of a species recognizable on phenotypic, ecological, or similar bases (14), generally used for a geographic subspecies.

Radial veins: Wing veins that terminate in the apical area (3).

Range: The geographic area occupied by a species or subspecies.

Rejection behavior: A behavior performed by an unreceptive female (or male) to discourage a male. These behaviors may include movements (like wing fluttering or vertical then quick downward flights), or postures (like raising the abdomen up between the wings so that the male cannot make genital contact (14, 15).

Relict: A species or population "left behind" in an area during an episode of geologic or climatic change (14); e.g., during a glacial period. Many disjunct populations are relictual (14).

Reproductive isolating barriers: Genetically based features of a species that prevent it from forming fertile hybrids with another species; for example, differences in courtship rituals that prevent out-crossing (20).

Sacculus: A pouch-like expansion located at the base of the valva.

Saccus: A male mating structure (15).

Scales: Very small, flattened modified hairs that cover the wings and bodies of butterflies and moths(1). Colors are produced through chemical pigments, iridescence, or both (1).

Scape: The base of the antennal shaft.

Sclerite: Any plate of the hardened (sclerotized) exoskeleton, defined by sutures (7).

Scolus: Any branching spine or seta-bearing cone on a caterpillar (15), named using B- preceding the name of the nearest primary seta (J. Scott, pers. comm.).

Secondary plant substances: Chemical compounds characteristic of particular plant lineages, generally thought to have defensive functions, and usually important in insect-foodplant relationships (14). Also called secondary plant metabolites (14). As an example, the California Pipevine (*Aristolochia californica*) plant produces unique chemicals called aristolochic acids (1). The sole butterfly herbivore on this plant in California, the Pipevine Swallowtail (*Battus philenor*), stores those acids in its body and uses them for its own defense (1).

Secondary seta: Any of the many hairs (setae) that develop as a larva grows from the first stage to maturity.

Segment: One of several sections of a caterpillar's abdomen (11), or adult appendages.

Segregate: A phenotypically distinct population of butterflies that has not been formally described as a subspecies; some segregates will likely be described as subspecies in the future, while some will not.

Selection pressure: Any feature of the environment that results in natural selection; for example, food shortage, the activity of a predator, or competition from other members of the same sex for a mate, can cause individuals of different genetic types to survive to different average ages, to reproduce at different rates, or both.

Semivoltine: Having one flight every other year (14).

Senior synonym: Of two synonyms: the earlier established, or in the case of simultaneous establishment that given precedence under Article 24 (9).

Seta: Any hair, bristle, or spine projecting from the exoskeleton (does not include the scales). (plural: setae). See "primary seta" and "secondary seta".

Sexual dimorphism: Conspicuous phenotypic differences between the sexes of a species (14).

Sexual selection: Selection for attributes that enhance reproductive success (22). A form of natural selection (20). In butterflies, for example, intra-specific sexual selection in the Common Eggfly (*Hypolimnas bolina*) is thought to be the driving force behind the exaggeration of bright, iridescent butterfly color patterns (25).

Sibling species: Species that are so similar phenotypically as to be nearly or quite unrecognizable as such without detailed study; usually first recognized based on behavioral or ecological differences (14).

Sister taxon: The most closely related taxon at the same rank (species, genus, etc.) (1).

Speciation: The evolution of new populations that are distinct at the species-level. See “geographic speciation”.

Species: Under the biological species concept (which applies only to sexual, out-crossing organisms like butterflies), a group of interbreeding individuals reproductively isolated from other such groups (14). Many additional species concepts exist, some of which were summarized by Mayden (1997) (28) and Wheeler & Meier (2000) (29).

Speciose: Rich in number of species, as in the order Lepidoptera.

Spermatheca: The organ in the female where sperm can be stored, sometimes for months (14). Once ovulation begins, the sperm leave the spermatheca one at a time and meet the individual eggs as they move down the oviduct (14)

Spermatogenesis: Sperm formation, which in butterflies begins in the late larval stage of males (14)

Spermatophore: A sperm-containing package deposited by the male during copulation, usually including nutrients that can be used by the female in making eggs (14). In most butterfly species remnants of the spermatophore (only one is transferred per mating) remain within the female's reproductive tract throughout her lifetime, making it possible to determine the number of times a female has mated by dissecting and counting the number of spermatophore remains (10).

Sperm precedence: A mechanism common in butterflies whereby the most recent male to copulate with the female inactivates any sperm left over from the previous mating (14).

Sphragis: A waxy, vaginal plug formed by a male and inserted into the female during copulation to prevent the female from mating again (14). Found in Parnassians and some Swallowtails (14).

Spinneret: The silk-dispensing lobe beneath the head of a caterpillar (15).

Spiracle: Any of a series of respiratory openings along the sides of the body (15).

Spur: Either of the two (or in some skippers any of the four) relatively long spine-like projections on the tibia (15).

Stabilizing (Normalizing) selection: Natural selection that favors “average” individuals in a population over those at the extremes (22).

Stigma: A pheromone gland on the wings of some male butterflies (14). The stigma is usually located on the dorsal forewing of many hairstreaks (family Lycaenidae) and hesperiids, but may be located on the hindwings or near the body in other butterfly families (1). Also called sex patch.

Stink club: A process at the end of the abdomen of most female Heliconiini, bearing scent scales (15).

scv: Subcostal vein.

Subgenual organ: A sense organ on the tibia that detects substrate vibrations.

Subjective synonym: Each of two or more names whose synonymy is only a matter of individual opinion, i.e. it is not objective (9).

Submarginal: The portion of the wing that lies between the median and postbasal areas (3).

Subspecies: A taxon below the species level that is perceived to have at least some degree of consistent differences phenotypically and with a definite geographic distribution (14). Unlike most species, most subspecies have no "biological" criterion and are often controversial (14).

Sulcus: An internal ridge of the exoskeleton for strengthening or muscle attachment.

Suture: Any visible line or sulcus on the exoskeleton where two segments (sclerites) join.

Sympatric: Occurring in the same area. Compare "allopatric".

Synchronic: Active at the same times or seasons (14). Compare "allochronic".

Synonym: Each of two or more names of the same rank used to denote the same taxon (9).

Synonymy: A chronological list or record of the scientific names that have been used to label the same organism.

Syntype: Each specimen of a type series from which neither a holotype nor a lectotype has been designated (9). The syntypes collectively constitute the name-bearing type (9).

Systematics: The science involved in the naming of organisms (taxonomy) and the evolutionary and ecological aspects of classification (14).

Tail: A projection from the hindwing, well developed in some species (especially Papilionids), or short and slender (as in many hairstreaks) (18)

Tarsal claws: Curved, paired appendages at the end of the last tarsal segment (18).

Tarsus: The tip or last segment of the leg. (plural: tarsi).

Taxon: A taxonomic unit, whether named or not: i.e. a population, or group of populations of organisms which are usually inferred to be phylogenetically related and which have characters in common which differentiate them (e.g. a geographic population, a genus, a family, an order) from other such units (9). (plural: taxa).

Taxonomy: The theory and practice of classifying organisms (9). For the modern (perennially updated) resource on United States and Canada butterfly taxonomy see A Catalog of the Butterflies of the United States and Canada by Jonathan P. Pelham

Tegula: Either of the two dorsal flaps between the mesothorax and the forewing.

Teneral: A butterfly newly emerged from the pupa and not fully hardened and capable of flight (14).

Thorax: The part of the insect body (lying between the head and the abdomen) where the legs and/or wings are attached. See “prothorax”, “mesothorax”, and “metathorax”.

Tibia: The fourth segment of the leg (the second long movable segment), between the femur and tarsus (15). (plural: tibiae).

Tibial tuft: A tuft of hairs (setae) on the tibiae, used in the classification of some duskywings (18).

Topotype: A term for a specimen originating from the type locality of the species or subspecies to which it is thought to belong, whether or not the specimen is part of the type series (9).

Tornus: The junction of the inner and outer margins of the forewing or hindwing.

Torpor: The state of inactivity induced by environmental conditions and quickly reversible (14). Also used to refer to the “playing dead” of adult *Nymphalis*, *Polygonia*, etc. when handled (J. Scott, pers. comm.).

Treetopping: A mate-locating behavior where males aggregate at treetops (or the tops of shrubs) to wait for or search for receptive females (2).

Trochanter: The second segment of the leg, between the coxa and the femur (15).

Tubercle: Any small, rounded projection on the body of a caterpillar or pupa (11).

Type: A term used alone, or forming part of a compound term, to denote a particular kind of specimen or taxon (9).

Type locality: The geographical place of capture, collection, or observation of the name-bearing type of a nominal species or subspecies (9).

Type series: The series of specimens on which the original author bases a new nominal species-group taxon (9). In the absence of a holotype designation, any such specimen is eligible for subsequent designation as the name-bearing type (lectotype); pending lectotype designation, all the specimens of the type series are syntypes and collectively they constitute the name-bearing type (9). Excluded from the type series are any specimens that the original author expressly excludes or refers to as distinct variants, or doubtfully includes in the taxon (9).

Type species: The nominal species that is the name-bearing type of a nominal genus or subgenus (9).

Type specimen: A term used for a holotype, lectotype or neotype, or for any syntype; also used generally for any specimen of the type series (9).

UN: Underside of wings.

Uncus: The terminal hook-like structure in the male genitalia (7).

UNF or Unf: Underside of the forewing.

UNH or Unh: Underside of the hindwing.

Univoltine: Having one flight per year (14).

UP: Upperside of wings.

UPF or Upf: Upperside of the forewing.

UPH or Uph: Upperside of the hindwing.

Valva: Either of the two appendages at the tip of the male abdomen used to hold the female during mating. Also called clasper. (plural: valvae).

Vein: Any of the tubular struts in the insect wing (15).

Venation: The arrangement (pattern) of veins in the insect wing. Wing venation patterns can be key means of identifying taxa (1). See Figures "1", "2", "3", "4" and "5" for examples of how wing veins are labeled.

Ventral: Pertaining to the under surface. In butterflies, the ventral surface of the wings is visible when the wings are held closed over the body (1).

Vinculum: Basal portion of the male genitalia (7).

Voltinism: The number of flights per year, which usually but not always corresponds to the number of generations (14).

Voucher specimen: A specimen retained as a reference in a study.

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