

# BULLETIN OF THE ALLYN MUSEUM

3621 Bayshore Rd.  
Sarasota, Florida 34234

Published By  
The Florida State Museum  
University of Florida  
Gainesville, Florida 32611

Number 111

20 October 1987

---

---

## Notes on the Identity of the Species-group Names in the Genera *Urbanus* and *Astraptus* (*sensu* Evans)

Stephen R. Steinhauser

Research Associate, Allyn Museum of Entomology of the Florida State Museum,  
3621 Bay Shore Road, Sarasota, Florida 34234

Over the past few years I have made some revisionary studies of *Urbanus/Astraptus* (*sensu* Evans) (Steinhauser, 1981, 1983 and 1986). Due to the polyphyletic nature of these two genera, further revision is needed and cladistic analysis of the entire group is planned. The published identities of many of the species-group names in the complex are vague and often incorrect. Before proceeding with further revision, it would be helpful to establish exactly what taxon is indicated by each published name.

I follow the order used by Evans (1952), inserting names published subsequent to his revision where it seems appropriate. I do this only for convenience as eventually there will be considerable generic as well as specific and subspecific revision and the phylogenetic order will be quite different. I refer to each name in its original form rather than that employed by Evans. Any published changes subsequent to Evans' revision are also indicated.

In order to provide a clearer picture of nomenclatural changes over the past years, a table is presented following the list of names, in which the names are arranged alphabetically with notations on the treatment accorded to each by various revisers. There has been much discussion and argument over nomenclatural stability and the inviolability of established nomenclature. It is interesting to note therefore, that the use of *Urbanus* and *Astraptus*, both in original descriptions and in revisionary work during the approximately century and a quarter between their publication and Evans' revision was limited to type species selections by Scudder, 1872 and Hemming, 1933, 1934 and description of one new subspecies by Comstock, 1944. For various reasons, these two generic names were widely ignored: *Goniurus* Hübner, [1819] and *Eudamus* Swainson, 1831 generally being used instead of *Urbanus*, and *Telegonus* Hübner [1819] in place of *Astraptus*. Of the names placed by Evans in *Astraptus*, 31 were assigned by Mabille and Bouillet, 1912 to *Telegonus* and 27 to *Thymele* Fabricius, 1807, but not consistently. They placed *Eudamus sumadue* Lucas, 1857 in *Telegonus* on p. 90 but in *Thymele* on p. 108 and synonymized *Papilio lucidator* Sepp, 1848 to *Goniurus talus* (Cramer), 1777 on p. 61 but to *Thymele enotrus* (Stoll), 1781 on p. 108.

I agree that nomenclatural stability is greatly to be desired, but it should never be achieved through sacrifice of taxonomic integrity.

As a basis for this work I have examined the holotypes, neotypes or lectotypes of 122 of the 193 valid and 6 invalid published names and what will be holotypes of 9 new, as yet unpublished names and will designate 4 more neotypes and 2 lectotypes in future papers. In the list of names below, + signifies a taxon of which I have examined the holotype; ^ a taxon for which I have designated a neotype; ^ ^ a taxon for which a neotype

will be designated in a future paper; # a taxon for which I have designated a lectotype; ## a taxon for which a lectotype will be designated in a future paper.

The location or possible location of types is indicated by the following abbreviations:

AME	Allyn Museum of Entomology, Florida State Museum, Sarasota
AMNH	American Museum of Natural History, New York
ANSP	Academy of Natural Sciences; Philadelphia
BM	British Museum (Natural History), London
CAS	California Academy of Sciences, San Francisco
CM	Carnegie Museum of Natural History, Pittsburgh
DEIE	Deutsch Entomologische Institut Eberswalde
FMLT	Fundación Miguel Lillo, Tucumán
MACN	Museo Argentino de Ciencias Naturales, Buenos Aires
MCZ	Museum of Comparative Zoology, Cambridge, MA
MNHN	Muséum National d'Histoire Naturelle, Paris
RMNH	Rijksmuseum van Natuurlijke Historie, Leiden
USNM	National Museum of Natural History, Washington, D. C.
ZMHU	Museum für Naturkunde der Humboldt-Universität (Zoologisches Museum), Berlin
ZML	Zoological Museum, Leningrad
ZSM	Zoologische Staatssammlung, München

#### *Urbanus (sensu Evans)*

- ^ *Papilio proteus* Linné, 1758 neotype (AME) designated by Steinhauser, 1981  
*Thymele domingo* Scudder, 1872 treated as a subspecies of *U. proteus* by Steinhauser, 1981; HT probably in MCZ.  
*Goniurus proteoides* Plötz, 1880 (= *proteides*, Auctorum) treated as a synonym of *proteus* by Steinhauser, 1981; HT may be in ZMHU or ZSM.
- + *Thymele viterboana* Ehrmann, 1907 treated as *U. viterboana* by Steinhauser, 1981; HT in CM.
- + *Urbanus dubius* Steinhauser, 1981; HT in AME.  
*Goniurus belli* Hayward, 1935 treated as *U. belli*, new combination by Steinhauser, 1981; HT probably in MACN or FMLT.
- + *Urbanus viterboana alva* Evans, 1952 treated as a synonym of *belli* by Steinhauser, 1981; HT in BM.
- + *Eudamus huancavillcas* Williams, 1926 treated as *U. huancavillcas* by Steinhauser, 1981; HT in CM.
- + *Urbanus pronta* Evans, 1952; HT in BM.
- + *U. pronus* Evans, 1952; HT in BM.
- + *U. plinius* Bell, 1956 treated as a synonym of *pronus* by Steinhauser, 1981; HT in AMNH.
- + *U. viridis* Freeman, 1970; HT in AMNH.
- + *Goniurus esmeraldus* Butler, 1877 treated as *U. esmeraldus* by Steinhauser, 1981; HT in BM.  
*G. platowii* Plötz, 1880 treated by Steinhauser, 1981 as an undetermined taxon probably belonging in *Aguna* Williams, 1927; HT may be in ZSM.
- + *Urbanus esma* Evans, 1952; HT in BM.
- + *U. evona* Evans, 1952; HT in BM.
- + *U. elmina* Evans, 1952; HT in BM.
- + *U. esta* Evans, 1952; HT in BM.
- + *U. prodicus* Bell, 1956; HT in AMNH.
- + *U. hubbellus* Freeman, 1969 treated as a synonym of *prodicus* by Steinhauser, 1981; HT in AMNH.
- + *U. magnus* Steinhauser, 1981; HT in BM.
- + *Eudamus acawoios* Williams, 1926 treated as *U. acawoios* by Steinhauser, 1981; HT in CM.

- Papilio dorantes* Stoll, 1790; HT probably lost.
- Goniurus torones* Hübner, 1821 a synonym of *dorantes*; HT lost.
- + *Eudamus atletes* C. & R. Felder, 1862 a synonym of *dorantes*; HT in BM.
- + *E. amicus* Hewitson, 1867 a synonym of *dorantes*; HT in BM.
- E. protillus* Herrich-Schäffer, 1869 a synonym of *dorantes*; HT may be in ZMHU or ZSM.
- Goniurus retractus* Plötz, 1880 a synonym of *dorantes*; HT may be in ZSM.
- G. velinus* Plötz, 1880 a synonym of *dorantes*; HT may be in ZSM.
- G. kefersteinii* Plötz, 1880 a synonym of *dorantes*; HT may be in ZSM.
- + *Eudamus protillus rauterbergi* Skinner, 1895 a synonym of *dorantes*; HT in CM.
- + *E. calafia* Williams, 1926 a synonym of *dorantes*; HT in CM.
- + *Urbanus dorantes cramptoni* Comstock, 1944; HT in AMNH.
- Eudamus santiago* Lucas, 1857 a subspecies of *dorantes*; location of HT unknown.<sup>1</sup>
- Goniurus cariosa* Herrich-Schäffer, 1862 a synonym of *santiago*; HT may be in ZMHU or ZSM.
- + *G. corydon* Butler, 1870 a synonym of *santiago*; HT in BM.
- ## *G. larius* Plötz, 1880 a synonym of *santiago*; LT will be placed in ZMHU.
- + *Eudamus obscurus* Hewitson, 1867 a subspecies of *dorantes*; HT in BM.
- + *E. brevicaudata* Lathy, 1904 a synonym of *obscurus*; HT in BM.
- + *E. parvus* Skinner, 1920 a synonym of *obscurus*; HT in CM.
- E. galapagensis* F. X. Williams, 1911 a subspecies of *dorantes*; HT in CAS.
- Goniurus teleus* Hübner, 1821; HT lost.
- Hesperia eurycles* Latreille, 1824 a synonym of *teleus*; HT may be in ZMHU or MNHN.
- + *Goniurus zalanthus* Plötz, 1880 a synonym of *teleus*; HT in ZMHU.
- G. latipennis* Mabille & Vuillot, 1891 a synonym of *teleus*; HT may be in MNHN.
- + *Urbanus tanna* Evans, 1952, HT in BM.
- + *U. cindra* Evans, 1952; HT in BM.
- + *Goniurus zagorus* Plötz, 1880; HT in ZMHU.
- G. purpurata* Hayward, 1933 a synonym of *zagorus*; HT probably in MACN or FMLT.
- Urbanus ambiguus* de Jong, 1983; HT in RMNH.
- Papilio simplicius* Stoll, 1790; HT probably lost.
- Goniurus gracillcauda* Plötz, 1880 a synonym of *simplicius*; HT may be in ZSM.
- + *G. pilatus* Plötz, 1880 a synonym of *simplicius*; HT in ZMHU.
- + *Thymele thiemi* Ehrmann, 1907 a synonym of *simplicius*; HT in CM.
- + *T. borja* Ehrmann, 1907 a synonym of *simplicius*; HT in CM.
- Goniurus procne* Plötz, 1880; HT may be in ZSM.
- G. evenus* Ménétrés, 1855; HT probably in ZML.
- + *Eudamus athesis* Hewitson, 1867; HT in BM.
- E. cenis* Herrich-Schäffer, 1869 a synonym of *athesis*; location of HT unknown.
- + *E. motilones* Williams, 1926 a synonym of *athesis*; HT in CM.
- + *E. miltas* Godman & Salvin, 1893 treated as *Ridens miltas*, new combination by Steinhauser, 1983; HT in BM.
- Thymele trebia* Möscher, 1878 a subspecies of *carmelita* (Herrich-Schäffer), 1869; HT in ZMHU.
- + *Eudamus nigricauda* Godman & Salvin, 1893 a synonym of *trebia*; HT in BM.
- + *E. carmelita* Herrich-Schäffer, 1869; HT in ZMHU.
- E. clevas* Mabille, 1888 a synonym of *carmelita*; HT may be in ZMHU.
- + *Urbanus carmelita barra* Evans, 1952; HT in BM.
- + *Eudamus chales* Godman & Salvin, 1893; HT in BM.
- + *E. reductus* Riley, 1919; HT in BM.
- E. doryssus* Swainson, 1831; HT lost.
- Goniurus brachius* Geyer, 1832 a synonym of *doryssus*; HT probably lost.

<sup>1</sup> — Horn & Kahle, 1935 indicate MNHN as the location for Lucas material, but Viette (pers. comm.) says there is no Lucas material there.

- Eudamus leucites* Mabille, 1888 a synonym of *doryssus*; HT may be in ZMHU.  
 + *Goniurus cleopatra* Ehrmann, 1907 a synonym of *doryssus*; HT in CM.  
 + *Eudamus doryssus* f. *interruptus* Williams, 1926 an invalid form name, synonym of *doryssus*; HT in CM.  
 + *E. albicuspis* Herrich-Schäffer, 1869 a subspecies of *doryssus*; HT in ZMHU.  
*Goniurus nivosus* Plötz, 1880 a synonym of *albicuspis*; HT may be in ZSM.  
 + *Eudamus loxo* Mabille, 1904 a synonym of *albicuspis*; HT in BM.  
 + *E. doryssus* f. *tenuis* Williams, 1926 an invalid form name, synonym of *albicuspis*; HT in CM.  
 + *Thymele albimargo* Mabille, 1875; HT in BM.  
*Goniurus dominicus* Plötz, 1886 a synonym of *albimargo*; HT may be in ZSM.  
 + *G. triptolemus* Ehrmann, 1907 a synonym of *albimargo*; HT in CM.  
 + *Urbanus albimargo takuta* Evans, 1952; HT in BM.  
 + *U. a. rica* Evans, 1952; HT in BM.  
 + *Eudamus virescens* Mabille, 1877; HT in BM.  
*Goniurus herophilus* Plötz, 1880 a synonym of *virescens*; HT probably lost.  
*Eudamus chlorothrix* Röber, 1925 a synonym of *virescens*; HT probably lost.  
*Goniurus chalco* Hübner, 1823; HT probably lost.  
*Eudamus agesilaus* Swainson, 1831 a synonym of *chalco*; HT lost.

*Astraptes* (sensu Evans)

- Papilio talus* Cramer, 1777; HT probably lost.  
*Hesperia ausonius* Latreille, 1824 a synonym of *talus*; HT may be in ZMHU or MNHN.  
*Papilio lucidator* Sepp, 1848 a synonym of *talus*; HT probably lost.  
*Eudamus sumadue* Lucas, 1857 a synonym of *talus*; location of HT unknown.<sup>1</sup>  
*Goniurus virens* Röber, 1925 a synonym of *talus*; HT probably lost.  
*Goniloba azul* Reakirt, [1867] a subspecies of *fulgerator* (Walch), 1775; HT may be in ANSP.  
*Eudamus misitra* Plötz, 1881 a synonym of *azul*; HT may be in ZSM.  
*Thymele albifasciatus* Röber, 1925 a synonym of *azul*; HT probably lost.  
*Papilio fulgerator* Walch, 1775; HT probably lost.  
*Hesperia mercatus* Fabricius, 1793 a synonym of *fulgerator*; HT probably lost.  
*Papilio fulminator* Sepp, 1848 a synonym of *fulgerator*; HT probably lost.  
 + *Astraptes catemacoensis* Freeman, 1967; HT in AMNH.  
*Telegonus fulgor* Hayward, 1939; HT probably in MACN or FMLT.  
 + *Eudamus naxos* Hewitson, 1867; HT in BM.  
*Thymele subfasciatus* Röber, 1925 a synonym of *naxos*; HT probably lost.  
 + *Telegonus tucuti* Williams, 1927; HT in CM.  
*Eudamus talthybius* Mabille, 1888. The correct name for this taxon is *brevicauda* (Plötz), 1886. Evans recognized, correctly that *eniopeus* Godman & Salvin, 1893 is a synonym of *talthybius*, but earlier, Godman (1907:150) had noted that *eniopeus* also is a synonym of *brevicauda*. The HT of *talthybius* was reported by Evans to be in the BM but I could not find it there; it may be in ZMHU as it was from the Staudinger collection.  
 + *Thymele eniopeus* Godman & Salvin, 1893 a synonym of *brevicauda*; HT in BM. (see note above)  
 + *Thymele palliolum* Druce, 1908; HT in BM.  
 + *Telegonus egregius* Butler, 1870; HT in BM.  
*Goniurus brevicauda* Plötz, 1886 a valid species, not a synonym of *egregius* (see *talthybius* above); HT may be in ZMHU.  
 + *Eudamus coxei* Williams, 1931 a subspecies of *egregius*; HT in CM.  
*E. erycina* Plötz, 1881; HT may be in ZSM.  
 + *E. halesius* Hewitson, 1877; HT in BM.  
 + *Thymele anthius* Mabille, 1891 a synonym of *halesius* as first noted by Williams & Bell (1934:20). Examination of the holotypes verifies this synonymy. The taxon later

- described as *anthius* by Mabille & Boulet (1912:96) and by Evans (1952:105) is an un-named species which will be re-described and named in a future paper. HT in ZMHU.
- + *T. phalaecus* Godman & Salvin, 1893; HT in BM.  
*Papilio apastus* Cramer, 1777; HT probably lost.
  - Eudamus briccicus* Plötz, 1881 a synonym of *apastus*; HT may be in ZSM.
  - + *Astraptus apastus pusa* Evans 1952; HT in BM.  
*Thymele fulviluna* Mabille, 1888 a synonym of *aulus* (Plötz), 1881. Godman (1907:134) noted that the Plötz MS figures of *aulus* represented two separate species, the male of *enotrus* (Stoll), 1781 and the female of *fulviluna*. As noted by Williams (1927:272), Mabille & Boulet (1912:103), acting as first reviser, named the female as the type of *aulus* thus sinking *fulviluna* in synonymy. HT may be in ZMH.  
*Papilio enotrus* Stoll, 1781; HT probably lost.
  - Eudamus aulus* Plötz, 1881 the correct name for *fulviluna* (see note above); HT may be in ZSM.
  - + *Thymele granadensis* Möschler, 1878 a senior synonym of *Astraptus colossus rhoda* Evans, 1952 treated as *Narcosius colossus granadensis* (Möschler), 1878, new combination by Steinhauser, 1986. HT in ZMHU.
  - ^^ *Papilio aulestes (recte aulestis)* Cramer, 1780 the correct name of the type species of *Astraptus* (see Steinhauser, 1986:1-2); HT lost; neotype will be designated in a future paper.
  - + *Telegonus janeira* Schaus, 1902 a synonym of *aulestis*; HT in USNM.  
*Thymele aulicus* Röber, 1925 a synonym of *aulestis*; HT probably lost.
  - + *Astraptus narcosius aulina* Evans, 1952 treated as a valid species, *Narcosius aulina* (Evans), 1952, new combination by Steinhauser, 1986; HT in BM.
  - ^ *Papilio narcosius* Stoll, 1790 treated as *Narcosius narcosius* (Stoll), 1790, new combination by Steinhauser, 1986; NT in BM.
  - + *Astraptus samson* Evans, 1952 treated as *Narcosius samson* (Evans), 1952, new combination by Steinhauser, 1986; HT in BM.
  - + *Narcosius nazaraeus* Steinhauser, 1986; HT in AME.
  - + *Telegonus mura* Williams, 1927 treated as *Narcosius mura* (Williams), 1927, new combination by Steinhauser, 1986; HT in CM.
  - + *Astraptus hercules* Bell, 1956 treated as *Narcosius hercules* (Bell), 1956, new combination by Steinhauser, 1986; HT in AMNH.
  - # *Eudamus colossus* Herrich-Schäffer, 1869 treated as *Narcosius colossus* (Herrich-Schäffer), 1869, new combination by Steinhauser, 1986; LT in BM.
  - + *Astraptus colossus rhoda* Evans, 1952 treated as a synonym of *Narcosius colossus granadensis* (Möschler), 1878, new combination by Steinhauser, 1986; HT in BM.
  - + *Astraptus colossus dosula* Evans, 1952 treated as a valid species, *Narcosius dosjula* (Evans), 1952, new combination by Steinhauser, 1986; HT in BM.
  - + *A. parisi helen* Evans, 1952 treated as *Narcosius parisi helen* (Evans), 1952, new combination by Steinhauser, 1986; HT in BM.
  - + *A. louiseae* Freeman, 1969 treated as a synonym of *helen* by Steinhauser, 1986.
  - + *Telegonus parisi* Williams, 1927 treated as *Narcosius parisi* (Williams), 1927, new combination by Steinhauser, 1986; HT in CM.  
*Eudamus xagua* Lucas, 1857; location of HT unknown.<sup>1</sup>
  - Goniloba malefida* Herrich-Schäffer, 1862 a synonym of *xagua*; HT may be in ZMHU or ZMS.
  - + *Telegonus christyi* Sharpe, 1898 a subspecies of *xagua*; HT in BM.
  - + *Thymele angustus* Skinner, 1920 a synonym of *christyi*; HT in CM.
  - + *Telegonus megalurus* Mabille, 1877; HT in BM.
  - + *T. consus* Godman & Salvin, 1893 a synonym of *megalurus*; HT in BM.
  - + *Eudamus elorus* Hewitson, 1867; HT in BM.  
*E. blasius* Plötz, 1881 a synonym of *elorus*; HT may be in ZSM.
  - + *Telegonus pheres* Mabille, 1903 a synonym of *elorus*; HT in BM.  
(see also footnote 7 to alphabetical list)

- T. subblasius* Strand, 1920 a synonym of *elorus*; HT may be in DEIE.
- + *Astraptes alardus latia* Evans, 1952; HT in BM.
  - + *A. a. aquila* Evans, 1952; HT in BM.
  - Papilio alardus* Stoll, 1790; HT probably lost.
  - + *Thymele grullus* Mabille, 1888 a synonym of *alardus*; HT in ZMHU.
  - + *Telegonus cartomes* Mabille, 1912 (*in* Mabille & Boulet, 1912) is a name published in synonymy as a synonym of *latimargo* and never raised, thus having no nomenclatural status. Evans considered it a synonym of *alardus*; HT in BM.
  - + *T. fabricii* Ehrmann, 1918 a synonym of *alardus*; HT in CM.
  - Eudamus habana* Lucas, 1857 a subspecies of *alardus*; location of HT unknown.<sup>1</sup>
  - + *Telegonus heriul* Mabille, 1912 (*in* Mabille & Boulet, 1912) a subspecies of *alardus*; HT in BM.
  - + *T. antiquus* Skinner, 1920 a synonym of *heriul*; HT in CM.
  - + *T. domingensis* Joicey & Talbot, 1924 a synonym of *heriul*; HT in BM.
  - Eudamus hopfferi* Plötz, 1881 a subspecies of *alactor* C. & R. Felder, 1867; HT may be in ZSM.
  - + *Thracides uridon* Dyar, 1912 a synonym of *hopfferi*; HT in USNM.
  - + *Eudamus alactor* C. & R. Felder, 1867; HT in BM.
  - + *Astraptes gilberti* Freeman, 1969; HT in AMNH.
  - Telegonus cretatus* Hayward, 1939; HT probably in MACN or FMLT.
  - + *Astraptes alfius* Evans, 1952 a synonym of *cretatus* (see Evans, 1955: 476); HT in BM.
  - + *A. alfius adoba* Evans, 1952 corrected by Evans, 1955 to *A. cretatus adoba*; HT in BM.
- The following group of three species (*sensu* Evans): *creteus*, *latimargo* and *chiriquensis* is in a state of utter disorder. I have examined the holotypes or lectotypes of 12 of the 17 names involved. There are five as yet inadequately defined published names in the group: *Papilio creteus* Cramer, 1780; *P. parmenides* Stoll, 1781; *Aethilla weymeri* Plötz, 1882; *Eudamus oenander* Hewitson, 1876 and *Telegonus chiriquensis* Staudinger, 1875. I have examined a syntype of this latter taxon from the type series in the ZMHU which I will designate as lectotype in a future paper. The types of the Cramer and Stoll names are lost; that of *weymeri* is probably lost. Godman (1907:151) synonymized *weymeri* with both *chiriquensis* (the Godman version) and *oenander*, an action followed only in part by Evans. The type of *oenander*, which is from the Staudinger collection, should be in the ZMHU but has not been located. Neotypes or lectotypes will be designated in a future paper for all of these except *oenander*, the type of which may exist. In addition, four new species will be added to the group.
- + *Astraptes creteus crana* Evans, 1952; HT in BM.
  - + *A. creteus crilla* Evans, 1952; HT in BM.
  - + *A. c. cyprus* Evans, 1952; HT in BM.
  - ^ *Papilio creteus* Cramer, 1780; HT lost.
  - ^^ *P. parmenides* Stoll, 1781 a synonym of *creteus*; HT lost.
  - + *Telegonus siges* Mabille, 1903 a subspecies of *creteus*; HT in BM.
  - + *A. escalantei* Freeman, 1967; HT in AMNH.
  - + *Eudamus bifascia* Herrich-Schäffer, 1869<sup>a</sup> subspecies of *E. latimargo* Herrich-Schäffer, 1869; HT in ZMHU.
  - # *Thymele telegonoides* Mabille & Boulet, 1912 treated as *Ridens telegonoides* (Mabille & Boulet), 1912, new combination by Steinhauser, 1983; LT in MNHN.
  - + *Eudamus latimargo* Herrich-Schäffer, 1869; HT in ZMHU.
  - + *Astraptes latimargo tinda* Evans, 1952; HT in BM.
  - ## *Telegonus chiriquensis* Staudinger, 1875; LT will be designated in a future paper and placed in ZMHU.
  - ^^ *Aethilla weymeri* Plötz, 1882; HT lost.
  - + *Telegonus chiriquensis* f. *godmani* Williams, 1927 invalid form name based on the Godman & Salvin illustration of *chiriquensis*; HT in BM.
  - + *Astraptes chiriquensis erana* Evans, 1952; HT in BM.
  - + *Eudamus meretrix* Hewitson, 1876; HT in BM.
  - E. oenander* Hewitson, 1876; HT may be in ZMHU.

- + *Aethilla jaira* Butler, 1870; HT in BM.
- + *Telegonus jariba* race *jamaicensis* Williams, 1927 a synonym of *jaira*; HT in CM.  
*Hesperia cassander* Fabricius, 1793; HT probably lost.  
*Eudamus cretellus* Herrich-Shäffer, 1869 a synonym of *cassander*; HT in ZMHU.
- + *Aethilla jariba* Butler, 1870 a synonym of *cassander*; HT in BM.
- + *Telegonus geronae* Holland, 1916 a synonym of *cassander*; HT in CM.
- + *Astrartes galesus cassius* Evans, 1952; HT in BM.  
*Telegonus galesus* Mabille, 1888; HT may be in ZMHU.
- + *T. galesus* f. *subflavus* Williams, 1927 an invalid form name, synonym of *galesus*; HT in CM.
- + *Astrartes anaphus annetta* Evans, 1952; HT in BM.  
*Papilio anaphus* Cramer, 1777; HT (of which I have examined a photo) in RMNH.  
*P. leucogramma* Sepp, 1848 a synonym of *anaphus*; HT probably lost.  
*Telegonus anaphus* var. *anaphides* Mabille & Boulet, 1912 an invalid form name, synonym of *anaphus*; HT may be in MNHN.
- + *Astrartes anaphus anoma* Evans, 1952; HT in BM.
- + *A. a. aniza* Evans, 1952; HT in BM.
- + *Telegonus anausis* Godman & Salvin, 1896 a subspecies of *anaphus*; HT in BM.
- + *Thymele grenadensis* Schaus, 1902 a synonym of *anausis*; HT in USNM.
- + *Telegonus alpistus* Mabille, 1903 a synonym of *anausis*; HT in BM.  
*T. alpistus* f. *cubana* Mabille & Boulet, 1912 used in the sense of a geographic form, therefor a valid subspecific name; HT may be in MNHN. (see also footnote 2 to alphabetical list)
- + *T. roysi* Avinoff & Shoumatoff, 1941 a synonym of *anausis*; HT in CM.

#### Explanatory Notes for Alphabetical List which follows:

The generic names mentioned are listed below with the abbreviations used, if any:

- A. = *Astrartes* Hübner, 1819
- Aeth. = *Aethilla* Hewitson, 1868
- Aguna Williams, 1927
- Eud. = *Eudamus* Swainson, 1831
- Giba. = *Goniloba* Westwood, 1852
- Gon. = *Goniurus* Hübner, 1819
- H. = *Hesperia* Fabricius, 1793
- Nar. = *Narcosius* Steinhauser, 1986
- P. = *Papilio* Linné, 1758
- R. = *Ridens* Evans, 1952
- Tel. = *Telegonus* Hübner, 1819
- Thr. = *Thracides* Hübner, 1819
- Thy. = *Thymele* Fabricius, 1807
- U. = *Urbanus* Hübner, 1807

An asterisk (\*) preceding the species-group name signifies that the name was introduced as a subspecies.

The column headings are: Species-group name and author; OD = name of genus under which taxon was described; the remaining columns are the names of the various revisers whose treatment is shown as follows: the generic name used by the reviser; if treated as a subspecies, the generic and specific name; an equal sign (=) means the name is treated as a synonym of the name that follows. The revisers and their dates of publication are: Watson, 1893; Godman & Salvin, 1893; Mabille, 1903; Mabille & Boulet, 1912; Williams, 1926 & 1927 and Williams & Bell, 1934; Evans, 1952 & 1955; Steinhauser, 1981, 1983 & 1986. Draudt's (1917-1924) treatment was essentially the same as that of Mabille & Boulet; I do not include it because of his vague handling of subspecies, forms, etc. Other marks in the left column are the same as used before. Only valid published names are listed.

Author's names and abbreviations used are as follows: Avinoff & Shoumatoff (Av. & Shou.); Bell; Butler (Btlr.); Comstock (Coms.); Cramer (Cr.); Druce; Dyar; Ehrmann (Ehr.);

Evans (Ev.); Fabricius (Fab.); C. & R. Felder (Fldr.); Freeman (Free.); Geyer (Gey.); Godman & Salvin (G. & S.); Hayward (Hayw.); Herrich-Schäffer (H.-S.); Hewitson (Hew.); Holland (Holl.); Hübner (Hbn.); Joicey & Talbot (J. & T.); de Jong (de J.); Lathy; Latreille (Latr.); Linné (L.); Lucas (Luc.); Mabille (Mab.); Mabille & Boulet (Mab. & Bou.); Mabille & Vuillot (Mab. & Vui.); Ménétries (Mén.); Möschler (Mös); Plötz (Pl.); Reakirt (Reak.); Riley; Röber (Röb.); Schaus (Sch.); Scudder (Scud.); Sepp; Sharpe (Shrp.); Skinner (Skin.); Staudinger (Std.); Steinhäuser (Stein.); Stoll; Strand; Swainson (Sw.); Walch; Williams, F. X. (F.X.W.); Williams, R. C. Jr. (Wms.)

#### Footnotes in Alphabetical List.

\*Williams, 1927 raised *Telegonus alpistus* var. *cubana* Mabille & Boulet, 1912 to specific rank as *T. cubana*, stating that it is probably an insular race of *anaphus*, but otherwise did not mention *alpinus*. Williams & Bell, 1934 treated *alpinus* as a form of *anaphus* and reduced *cubana* to a subspecies of *anaphus*. Evans considered *alpinus*, reported by Mabille from Brasil, to have been incorrectly labeled and placed it as a synonym of *anausis*. The type exactly resembles *anausis* but has no locality label. Mabille & Boulet, considering *alpinus* a valid Brazilian species, treated *cubana* as a variety of *alpinus*, but by inference, a geographical variety and thus, in the modern sense, a validly named subspecies.

\*Cramer used two spellings for this insect: *aulestes* in the text and *aulestis* in the index. As mentioned by Steinhäuser, 1986, dos Passos, 1960 considered the name in the index to be its first binomial use and therefore the correct spelling and thus not a junior homonym of *Papilio aulestes* Cramer, 1777. In the list, I have given the spelling actually used by various authors rather than emending it as I have done with more obvious incorrect spellings of other names.

\*See discussion under *Thymele fulviluna*.

\*See discussion under *Eudamus thalpybius*.

\*Williams & Bell, 1934 present an interesting discussion of several taxa in this group, including *latimargo* but do not include it in their synonymy.

\*Mabille, 1903, under *Telegonus*, listed *T. pheres*, nov. sp. and placed *parmenides* beneath it as a synonym. I do not know what his reasoning was and perhaps *pheres* should be treated as a name published in synonymy. In any event, he apparently misidentified *parmenides*, as the holotype of *pheres* is clearly equal to *elorus* Hewitson.

\*Original description as *Eudamus protillus rauterbergi*.

#### Literature Cited

- Avinoff, A. and N. Shoumatoff, 1941. Some new and undescribed Jamaican butterflies. *Ann. Carn. Mus.* 28(15): 309-323, pl. 36.
- Bell, E. L., 1956. Descriptions of some new species of Neotropical Hesperidae. *American Mus. Novit.* No. 1778: 1-13, 5 pls.
- Butler, A. G., 1870. Descriptions of some new diurnal Lepidoptera, chiefly Hesperidae. *Trans. ent. Soc. Lond.* 18(4): 485-520.
- , 1877. On the Lepidoptera of the Amazons, collected by James W. H. Trail, Esq., during the years 1873-1875. *Trans. ent. Soc. Lond.* 25(2): 105-156, pl. 3.
- Comstock, W. P., 1944. Insects of Porto Rico and the Virgin Islands. Rhopalocera or butterflies. *In* Scientific Survey of Porto Rico and the Virgin Islands. N. Y. Acad. Sci. 12(4): 421-622; figs. 1-29; pls. 1-12; 1 table.
- Cramer, P., [1775]-[1780]. *De Uitlandsche Kapellen* (1-4): 512 pp., pls. 1-304.
- Draudt, M., 1917-1924. Die amerikanischen Tagfalter. *In* Seitz. *Grossschmette*. Erde 5.
- Druce, H. H., 1908. Descriptions of some new Hesperidae from Central and South America. *Trans. ent. Soc. Lond.* 56(2): 375-386, pl. 21.
- Dyar, H. G., 1912. Descriptions of new species and genera of Lepidoptera, chiefly from Mexico. *Proc. U. S. Natn. Mus.* 42 (1885): 39-106.
- Ehrmann, G. A., 1907. New tropical American Hesperidae. *Can. Ent.* 39(9): 317-323.
- , 1918. New species and variations of Butterflies (cont.). *Lepidoptera* 2(4): 29-30.
- Evans, W. H., 1952. A catalogue of the American Hesperidae in the British Museum (Natural History) Part 2: Pyrginae - Section 1. London, v + 178 pp., pls. 10-25.
- , 1955. A catalogue of the American Hesperidae in the British Museum (Natural History) Part 4: Hesperinae and Megathyminae. London, v + 499 pp., pls. 54-88.
- Fabricius, J. C., 1792-1799. *Entomologia systematica*. . . . Copenhagen, C. G. Proft. 8vo 4 vol. + suppl.
- , 1807. *Systema Glossatorum*. *In* Illiger. *Mag. f. Insektenk* (Illiger) 6: 279-289.
- Felder, C. and R. Felder, 1862. Specimen faunae lepidopterologicae riparum fluminis Negro superioris in Brasilia septentrionali. *Wien. ent. Monats.* 6(6): 175-192.



Table 1 - Alphabetical List

Specific name and author	OD	Watson	G. & S.	Mabille	Mab. & Bou.	Williams Wes. & Bell	Evans	Steinhauser
+ <u>acavoios</u> Wms.	<u>Eud.</u>	----	----	----	----	<u>Eud.</u>	<u>U.</u>	<u>U.</u>
+ * <u>adoba</u> Ev.	<u>A.</u>	----	----	----	----	----	<u>A. alfius</u> <u>recte cretatus</u>	
<u>agesilaus</u> Sw.	<u>Eud.</u>		= <u>Eud.chalco</u>	= <u>Eud.chalco</u>	= <u>Eud.chalco</u>	= <u>Eud.chalco</u>	= <u>U. chalco</u>	
<u>alardus</u> Stoll	<u>P. Tel.</u>		<u>Tel.</u>	<u>Tel.</u>	<u>Tel.</u>	<u>Tel.</u>	<u>A.</u>	
+ <u>albicuspis</u> H.-S.	<u>Eud.</u>		<u>Eud.</u>	<u>Eud.</u>	<u>Eud.</u>		<u>U. doryssus</u>	
<u>albifasciatus</u> Rb.	<u>Thy.</u>	----	----	----	----		= <u>A. fulgerator</u> <u>azul</u>	
+ <u>albmargo</u> Mab.	<u>Thy.</u>		<u>Eud.</u>	<u>Eud.</u>	<u>Eud.</u>	<u>Eud.</u>	<u>U.</u>	
+ <u>alctor</u> Fldr.	<u>Eud.</u>			<u>Thy.</u>	<u>Thy.</u>		<u>A.</u>	
+ <u>alfius</u> Ev.	<u>A.</u>	----	----	----	----	----	= <u>A. cretatus</u>	
+ <u>alpistus</u> Mab. <sup>2</sup>	<u>Tel.</u>	----	----	<u>Tel.</u>	<u>Tel.</u>	<u>Tel. anaphus f.</u>	= <u>A. anaphus</u> <u>ansuis</u>	
+ * <u>alva</u> Ev.	<u>U.</u>	----	----	----	----	----	<u>U. viterboana</u>	= <u>U. belli</u>
<u>ambiguus</u> de J.	<u>U.</u>	----	----	----	----	----	----	
+ <u>amisus</u> Hew.	<u>Eud. Eud.</u>		= <u>Eud. dorantes</u>	= <u>Eud. dorantes</u>	= <u>Eud. dorantes</u>	= <u>Eud. dorantes</u>	= <u>U. dorantes</u>	
+ <u>anaphus</u> Cr.	<u>P. Tel.</u>		<u>Tel.</u>	<u>Tel.</u>	<u>Tel.</u>	<u>Tel.</u>	<u>A.</u>	
+ <u>ansuis</u> G. & S.	<u>Tel.</u>	----	----	----	----	<u>Tel. anaphus</u>	<u>A. anaphus</u>	
+ <u>angustus</u> Skin.	<u>Thy.</u>	----	----	----	----	----	= <u>A. xagua</u> <u>christyi</u>	
+ * <u>aniza</u> Ev.	<u>A.</u>	----	----	----	----	----	<u>A. anaphus</u>	
+ * <u>annetta</u> Ev.	<u>A.</u>	----	----	----	----	----	<u>A. anaphus</u>	
+ * <u>anoma</u> Ev.	<u>A.</u>	----	----	----	----	----	<u>A. anaphus</u>	
+ <u>anthius</u> Mab.	<u>Thy.</u>			<u>Thy.</u>	<u>Thy.</u>	= <u>Tel. halesius</u>	<u>A.</u>	
+ <u>antiquus</u> Skin.	<u>Tel.</u>	----	----	----	----	<u>Tel.</u>	= <u>A. alardus</u> <u>heriul</u>	
<u>apastus</u> Cr.	<u>P. Tel.</u>		<u>Tel.</u>	<u>Tel.</u>	<u>Tel.</u>	<u>Tel.</u>	<u>A.</u>	
+ * <u>aquila</u> Ev.	<u>A.</u>	----	----	----	----	----	<u>A. alardus</u>	
+ <u>athesis</u> Hew.	<u>Eud.</u>		<u>Eud.</u>	<u>Eud.</u>	<u>Eud.</u>		<u>U.</u>	
+ <u>atletes</u> Fldr.	<u>Eud.</u>			<u>Eud.</u>	<u>Eud.</u>		= <u>U. dorantes</u>	
^ <u>aulestis</u> Cr. <sup>3</sup>	<u>P. Thy.</u>		<u>Thy.</u>	<u>Thy.</u>	<u>Thy.</u>	<u>Tel.</u>	= <u>A. granadensis</u>	<u>A.</u>
<u>aulicus</u> Rb.	<u>Thy.</u>	----	----	----	----	----	= <u>A. granadensis</u>	
+ * <u>aulina</u> Ev.	<u>A.</u>	----	----	----	----	----	<u>A. narcosius</u>	<u>Nar.</u>
<u>aulus</u> Pl. <sup>4</sup>	<u>Eud.</u>			<u>Thy.</u>	<u>Thy.</u>	<u>Tel.</u>	= <u>A. enotrus</u>	
<u>ausonius</u> Latr.	<u>H.</u>					= <u>Gon. talus</u>	= <u>Tel. talus</u>	= <u>A. talus</u>
<u>azul</u> Reak.	<u>Giba.</u>					= <u>Thy. fulgerator</u>	= <u>Tel. fulgerator</u>	<u>A. fulgerator</u>
+ * <u>barra</u> Ev.	<u>U.</u>	----	----	----	----	----	<u>U. carmelita</u>	
* <u>belli</u> Hayw.	<u>Gon.</u>	----	----	----	----	----	<u>U. viterboana</u>	<u>U.</u>
+ <u>bifascia</u> H.-S.	<u>Eud.</u>			<u>Tel.</u>	<u>Tel.</u>	<u>Tel.</u>	<u>A. latimargo</u>	
<u>blasius</u> Pl.	<u>Eud.</u>			<u>Tel.</u>		= <u>Tel. elorus</u>	= <u>A. elorus</u>	
+ <u>borja</u> Ehr.	<u>Thy.</u>	----	----	----	----	----	= <u>U. simplicius</u>	
<u>brachius</u> Gey.	<u>Gon. Eud.</u>		= <u>Eud. doryssus</u>	<u>Eud.</u>	<u>Eud.</u>	= <u>Eud. doryssus</u>	= <u>U. doryssus</u>	
<u>brevicauda</u> Pl. <sup>5</sup>	<u>Gon.</u>			<u>Thy.</u>	<u>Thy.</u>	<u>Tel.</u>	= <u>A. egregius</u>	
+ <u>brevicaudata</u> Lathy	<u>Eud.</u>	----	----	----	----	----	= <u>U. dorantes</u> <u>obscurus</u>	

Table 1 cont.

Specific name and author	OD	Watson	G. & S.	Mabille	Mab. & Bou.	Williams Wms. & Bell	Evans	Steinhauser
<u>briccius</u> Pl.		Eud.		Thy.	Thy.	Tel. 1927 =Tel. <u>apastus</u> 1934	=A. <u>apastus</u>	
+ * <u>calafia</u> Wms.		Eud. ----	----	----	----	<u>Eud.</u> <u>dorantes</u>	=U. <u>dorantes</u>	
<u>cariosa</u> H.-S.		Gon.			=Eud. <u>santiago</u>	=Eud. <u>santiago</u>	=U. <u>dorantes</u> <u>santiago</u>	
+ <u>carmelita</u> H.-S.		Eud. Eud.	Eud.	Eud.	Eud.		U.	
<u>cassander</u> Fab.		H.			Tel.		A.	
+ * <u>cassius</u> Ev.		A. ----	----	----	----	----	A. <u>galesus</u>	
+ <u>catemacoensis</u> Free.		A. ----	----	----	----	----	----	
<u>cenis</u> H.-S.		Eud.	Eud.	Eud.	Eud.		=U. <u>athesis</u>	
<u>chalco</u> Hbn.		Gon. Eud.	Eud.	Eud.	Eud.	Eud.	U.	
+ <u>chales</u> G. & S.		Eud. ----	Eud.	Eud.	Eud.	Eud.	U.	
## <u>chiriquensis</u> Std.		Tel.	Tel.	Tel.	Tel.	Tel.	A.	
<u>chlorothrix</u> Röh.		Eud. ----	----	----	----	----	=U. <u>virescens</u>	
+ <u>christyi</u> Shrp.		Tel. ----	----	----	Thy.	Tel.	A. <u>xagua</u>	
+ <u>cindra</u> Ev.		U. ----	----	----	----	----	U.	
+ <u>cleopatra</u> Ehr.		Gon. ----	----	----	----	----	=U. <u>doryssus</u>	
<u>clevas</u> Mab.		Eud.		Eud.	Eud.		=U. <u>carmelita</u>	
# <u>colossus</u> H.-S.		Eud. Thy.	=Thy. <u>aulestes</u>	=Thy. <u>aulestes</u>	=Thy. <u>aulestes</u>	Tel.	A.	Nar.
+ <u>consus</u> G. & S.		Tel. ----	Tel.	=Tel. <u>megalurus</u>	=Tel. <u>megalurus</u>		=A. <u>megalurus</u>	
+ <u>corydon</u> Btlr.		Gon. =Eud. <u>larius</u>				=Eud. <u>santiago</u> var. <u>santiago</u>	=U. <u>dorantes</u> <u>santiago</u>	
+ <u>coxevi</u> Wms.		Eud. ----	----	----	----	Eud.	A. <u>egregius</u>	
+ * <u>cramptoni</u> Coms.		U. ----	----	----	----	----	U. <u>dorantes</u>	
+ * <u>crana</u> Ev.		A. ----	----	----	----	----	A. <u>creteus</u>	
<u>cretatus</u> Hayw.		Tel. ----	----	----	----	----	A. (1955)	
<u>cretellus</u> H.-S.		Eud.		Tel.	Tel.	Tel.	=A. <u>cassander</u>	
~ <u>creteus</u> Cr.		P. Tel.	Tel.	Tel.	Tel.	Tel.	A.	
+ * <u>crilla</u> Ev.		A. ----	----	----	----	----	A. <u>creteus</u>	
+ * <u>cubana</u> Mab. & Bou. <sup>2</sup>		Tel. ----	----	----	Tel. <u>alpistus</u>	Tel. <u>anaphus</u>	=A. <u>anaphus</u> <u>anasis</u>	
+ * <u>cyprus</u> Ev.		A. ----	----	----	----	----	A. <u>creteus</u>	
+ <u>domingensis</u> J. & T.		Tel. ----	----	----	----	=Tel. <u>antiquus</u>	=A. <u>alardus</u> <u>heriul</u>	
<u>domingo</u> Scud.		Thy.			=Eud.	=Eud.	U. <u>proteus</u>	U. <u>proteus</u>
<u>dominicus</u> Pl.		Gon.			Eud. ?		=U. <u>albimargo</u>	
<u>dorantes</u> Stoll		P. Eud.	Eud.	Eud.	Eud.	Eud.	U.	
<u>doryssus</u> Swa.		Eud.	Eud.	Eud.	Eud.	Eud.	U.	
+ * <u>dosula</u> Ev.		A. ----	----	----	----	----	A. <u>colossus</u>	Nar.
+ <u>subius</u> Stein.		U. ----	----	----	----	----	----	U.
+ <u>egregius</u> Btlr.		Tel. Thy.	Thy.	Thy.	Thy.	Tel.	A.	
+ <u>elmina</u> Ev.		U. ----	----	----	----	----	U.	U.
+ <u>elorus</u> Hew.		Eud. Tel.	Tel.	Tel.	Tel.	Tel.	A.	
+ <u>enlopeus</u> G. & S. <sup>5</sup>		Thy. ----	Thy.	=Thy. <u>brevicauda</u>	=Thy. <u>brevicauda</u>	=Tel. <u>brevicauda</u>	=A. <u>talthybius</u>	

Table 1 cont.

Specific name and author	OD	Watson	G. & S.	Mabille	Mab. & Bou.	Williams Wms. & Bell	Evans	Steinhauser
<u>enotrus</u> Stoll	P.	Thy.	Thy.	Thy.	Thy.	Tel.	A.	
+ * <u>erana</u> Ev.	A.	----	----	----	----	----	A. <u>chiriquensis</u>	
<u>erycina</u> Pl.	Eud.			Thy.	Thy.	Gon.	A.	
+ <u>escalantei</u> Free.	A.	----	----	----	----	----	----	
+ <u>esma</u> Ev.	U.	----	----	----	----	----	----	U.
+ <u>esmeraldus</u> Btlr.	Gon.	Eud.	Eud.	Eud.	=Eud. <u>proteus</u> var.	Eud.	U.	U.
+ <u>esta</u> Ev.	U.	----	----	----	----	----	U.	U.
<u>eurycles</u> Latr.	H.	Eud.	Eud.	Eud.	Eud.	Gon.	=U. <u>teleus</u>	
<u>evenus</u> Mén.	Gon.	Eud.		Eud.	Eud.	Eud.	U.	
+ <u>evona</u> Ev.	U.	----	----	----	----	----	U.	U.
+ <u>fabricii</u> Ehr.	Tel.	----	----	----	----	=Tel. <u>alardus</u>	=A. <u>alardus</u>	
<u>fulgerator</u> Walch	P.	Thy.	Thy.	Thy.	Thy.	Tel.	A.	
<u>fulgor</u> Hayw.	Tel.	----	----	----	----	----	A.	
<u>fulminator</u> Sepp	P.		=Thy. <u>fulgerator</u>	=Thy. <u>fulgerator</u>	=Thy. <u>fulgerator</u>	=Tel. <u>fulgerator</u>	=A. <u>fulgerator</u>	
<u>fulviluna</u> Mab. <sup>4</sup>	Thy.		Thy.	Thy.	=Thy. <u>aulus</u>	=Tel. <u>aulus</u>	A.	
<u>galapagensis</u> F.X.W.	Eud.	----	----	----		Eud.	U. <u>dorantes</u>	
<u>galesus</u> Mab.	Tel.			Tel.	Tel.	Tel.	A.	
+ <u>geronae</u> Holl.	Tel.	----	----	----		1927 =Tel. <u>jariba</u> 1934 =Tel. <u>cretellus</u>	=A. <u>cassander</u>	
+ <u>gilberti</u> Free.	A.	----	----	----	----	----	----	
<u>gracillcauda</u> Pl.	Gon.		=Eud. <u>simplicius</u>		=Eud. <u>simplicius</u>		=U. <u>simplicius</u>	
+ <u>granadensis</u> Mös.	Thy.			Thy.	=Thy. <u>aulestes</u>		A.	Nar. <u>colossus</u>
+ <u>granadensis</u> Sch.	Thy.	----	----		Tel.	=Tel. a. <u>anausis</u>	=A. <u>anaphus</u> <u>anausis</u>	
+ <u>grullus</u> Mab.	Thy.		Tel.	Tel.	=Tel. <u>latimargo</u>	=Tel. <u>chiriquensis</u> form	=A. <u>alardus</u>	
<u>habana</u> Luc.	Eud. Tel.		Tel.	Tel.	Tel.	Tel.	A. <u>alardus</u>	
+ <u>halesius</u> Hew.	Eud. Thy.			=Thy. <u>naxos</u>	Thy.	Tel.	A.	
+ * <u>helen</u>	A.	----	----	----	----	----	A. <u>parisi</u>	Nar. <u>parisi</u>
+ <u>hercules</u> Bell	A.	----	----	----	----	----	----	Nar.
+ <u>heriul</u> Mab.	Tel.	----	----	----	Tel.		A. <u>alardus</u>	
<u>herophilus</u> Pl.	Gon.				=?Eud. <u>virescens</u>	=Eud. <u>virescens</u>	=U. <u>virescens</u>	
<u>hopfferi</u> Pl.	Eud.			Tel.	Tel.	=Tel. <u>criteus</u> f.	A. <u>allector</u>	
+ <u>huancavillcas</u> Wms.	Eud.	----	----	----	----	Eud.	U.	U.
+ <u>hubbellus</u> Free.	U.	----	----	----	----	----	----	=U. <u>prodicus</u>
+ <u>jaira</u> Btlr.	Aeth.				=?Tel. <u>cretellus</u>	Tel.	A.	
+ * <u>jamaicensis</u> Wms.	Tel.	----	----	----	----	1927 Tel. <u>jariba</u> 1934 =Tel. <u>jaira</u>	=A. <u>jaira</u>	
+ <u>janeira</u> Sch.	Tel.	----	----		Tel.?		=A. <u>granadensis</u>	=A. <u>aulestis</u>

Table 1 cont.

Specific name and author	OD	Watson	G. & S.	Mabille	Mab. & Bou.	Williams Wms. & Bell	Evans	Steinhauser
+ <u>jariba</u> Btlr.	<u>Aeth.</u>				Tel.?	1927 Tel. 1934 =Tel. <u>cretellus</u>	=A. <u>cassander</u>	
<u>kefersteinii</u> Pl.	<u>Gon.</u>			<u>Eud.</u>	=Eud. <u>dorantes</u>	=Eud. <u>dorantes</u>	=U. <u>dorantes</u>	
# <u>larius</u> Pl.	<u>Gon. Eud.</u>			<u>Eud.</u>	=Eud. <u>santiago</u> var. <u>corydon</u>	=Eud. <u>santiago</u>	=U. <u>dorantes santiago</u>	
+ * <u>latia</u> Ev.	<u>A.</u> ----	----	----	----	----	----	<u>A. alardus</u>	
+ <u>latimargo</u> H.-S.	<u>Eud.</u>			<u>Tel.</u>	<u>Tel.</u>	6	<u>A.</u>	
<u>latipennis</u> Mab. & Vui.	<u>Gon. Eud.</u>			<u>Eud.</u>	=Eud. <u>eurycles</u> var. <u>eurycles</u>	=Gon. <u>eurycles</u>	=U. <u>teleus</u>	
<u>leucites</u> Mab.	<u>Eud.</u>			=Eud. <u>albicuspis</u>	=Eud. <u>albicuspis</u>	=Eud. <u>doryssus f.</u>	=U. <u>doryssus</u>	
<u>leucogramma</u> Sepp	<u>P.</u>				<u>Tel.</u>		=A. <u>anaphus</u>	
+ <u>louiseae</u> Free.	<u>A.</u> ----	----	----	----	----	----	----	=Nar. <u>parisi helen</u>
+ <u>loxo</u> Mab.	<u>Eud.</u> ----			<u>Eud.</u>	<u>Eud.</u>		=U. <u>doryssus albicuspis</u>	
<u>lucidator</u> Sepp	<u>P.</u>			=Thy. <u>enotrus</u>	p.61 =Gon. <u>talus</u> p.108 =Thy. <u>enotrus</u>	=Tel. <u>talus</u>	=A. <u>talus</u>	
+ <u>magnus</u> Stein.	<u>U.</u> ----	----	----	----	----	----	----	<u>U.</u>
<u>malefida</u> H.-S.	<u>Giba.</u>			=Tel. <u>xagus</u>	=Tel. <u>xagus</u>		=A. <u>xagus</u>	
+ <u>megalurus</u> Mab.	<u>Tel.</u>			<u>Tel.</u>	<u>Tel.</u>		<u>A.</u>	
<u>mercatus</u> Fab.	<u>H.</u>	=Thy. <u>fulgerator</u>	=Thy. <u>fulgerator</u>	<u>Thy.</u>	=Thy. <u>fulgerator</u>	=Tel. <u>fulgerator</u>	=A. <u>fulgerator</u>	
+ <u>meretrix</u> Hew.	<u>Eud. Tel.</u>		=Tel. <u>chiriquensis</u>	=Tel. <u>chiriquensis</u>	=Tel. <u>chiriquensis</u>	=Tel. <u>chiriquensis</u>	<u>A. chiriquensis</u>	
+ <u>miltas</u> G. & S.	<u>Eud.</u> ----	----	<u>Eud.</u>	<u>Eud.</u>	<u>Eud.</u>		<u>U.</u>	<u>R.</u>
<u>misitra</u> Pl.	<u>Eud.</u>		=Thy. <u>fulgerator</u>	=Thy. <u>fulgerator</u>	=Thy. <u>fulgerator</u>	=Tel. <u>fulgerator</u>	=A. <u>fulgerator azul</u>	
+ <u>motilonis</u> Wms.	<u>Eud.</u> ----	----	----	----	----	<u>Eud.</u>	=U. <u>athesis</u>	
+ <u>mura</u> Wms.	<u>Tel.</u> ----	----	----	----	----	<u>Tel.</u>	<u>A.</u>	<u>Nar.</u>
+ <u>narcosius</u> Stoll	<u>P.</u>		=Thy. <u>aulestes</u>	=Thy. <u>aulestes</u>	=Thy. <u>aulestes</u>	=Tel. <u>aulestes</u>	<u>A.</u>	<u>Nar.</u>
+ <u>naxos</u> Hew.	<u>Eud. Thy.</u>		<u>Thy.</u>	<u>Thy.</u>	<u>Thy.</u>	<u>Tel.</u>	<u>A.</u>	
+ <u>nazaraeus</u> Stein.	<u>Nar.</u> ----	----	----	----	----	----	----	<u>Nar.</u>
+ <u>nigricauda</u> G. & S.	----		<u>Eud.</u>	<u>Eud.</u>	<u>Eud.</u>		=U. <u>carmelita trebia</u>	
<u>nivosus</u> Pl.	<u>Gon.</u>		=Eud. <u>doryssus</u>		=?Eud. <u>doryssus</u>	=Eud. <u>doryssus</u>	=U. <u>doryssus albicuspis</u>	
+ <u>obscurus</u> Hew.	<u>Eud.</u>			<u>Eud.</u>	<u>Eud. ?</u>		<u>U. dorantes</u>	
<u>oenander</u> Hew.	<u>Eud.</u>					=Tel. <u>creteus</u>	<u>A. chiriquensis</u>	
+ <u>palliolum</u> Druce	<u>Thy.</u> ----	----	----	----	<u>Thy.</u>		<u>A.</u>	
+ <u>parisi</u> Wms.	<u>Tel.</u> ----	----	----	----	----	<u>Tel.</u>	<u>A.</u>	<u>Nar.</u>
** <u>parmenides</u> Stoll	<u>P.</u>	=Tel. <u>creteus</u>	=Tel. <u>creteus</u>	=Tel. <u>phera</u> 7	<u>Tel.</u>	=Tel. <u>creteus</u>	=A. <u>creteus</u>	
+ <u>parvus</u> Skin.	<u>Eud.</u> ----	----	----	----	----	<u>Eud.</u>	=U. <u>dorantes obscurus</u>	
+ <u>phalaecus</u> , G. & S.	<u>Thy.</u> ----	----	<u>Thy.</u>	<u>Thy.</u>	<u>Thy.</u>	<u>Tel.</u>	<u>A.</u>	

Table 1 cont.

Specific name and author	OD	Watson	G. & S.	Mabille	Mab. & Bou.	Williams Wms. & Bell	Evans	Steinhauser
+ <u>pheres</u> Mab. <sup>7</sup>		<u>Tel.</u>		<u>Tel.</u>	<u>Tel.</u>	<u>=Tel. elorus</u>		<u>=A. elorus</u>
+ <u>pilatus</u> Pl.		<u>Gon.</u>		<u>=Eud. simplicius</u>	<u>=Eud. simplicius</u>	<u>=Gon. simplicius</u>		<u>=U. simplicius</u>
<u>platowii</u> Pl.		<u>Gon.</u>		<u>Eud.</u>	<u>=Eud. proteus var.</u>			<u>=U. esmeraldus Aguna sp.</u>
+ <u>plinius</u> Bell		<u>U. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>=U. pronus</u>
<u>procne</u> Pl.		<u>Gon.</u>			<u>=Eud. simplicius</u>	<u>=Gon. simplicius</u>	<u>U.</u>	
+ <u>prodicus</u> Bell		<u>U. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>U.</u>
+ <u>pronta</u> Ev.		<u>U. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>U.</u>	<u>U.</u>
+ <u>pronus</u> Ev.		<u>U. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>U.</u>	<u>U.</u>
<u>proteoides</u> Pl.		<u>Gon.</u>		<u>=Eud. proteus var.</u>	<u>=Eud. proteus</u>	<u>=Eud. proteus</u>	<u>=U. proteus domingo</u>	<u>=U. proteus</u>
~ <u>proteus</u> L.		<u>P. Eud.</u>	<u>Eud.</u>	<u>Eud.</u>	<u>Eud.</u>	<u>Eud.</u>	<u>U.</u>	<u>U.</u>
<u>protillus</u> H.-S.		<u>Eud.</u>	<u>=Eud. dorantes</u>	<u>=Eud. dorantes</u>	<u>=Eud. dorantes</u>	<u>=Eud. dorantes</u>		<u>=U. dorantes</u>
<u>purpurata</u> Hayw.		<u>Gon. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>		<u>=U. zagorus</u>
+ <u>*pusa</u> Ev.		<u>A. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>A. apastus</u>	
+ <u>*rauterbergi</u> Skin. <sup>8</sup>		<u>Eud. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>Eud. dorantes</u>		<u>=U. dorantes</u>
+ <u>reductus</u> Riley		<u>Eud. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>Gon.</u>	<u>U.</u>	
<u>retractus</u> Pl.		<u>Gon.</u>		<u>Eud.</u>	<u>=Eud. santiago var.</u>	<u>Eud.</u>		<u>=U. dorantes</u>
+ <u>*rhoda</u> Ev.		<u>A. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>A. colossus</u>	<u>=Nar. colossus granadensis</u>
+ <u>*rica</u> Ev.		<u>U. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>U. albimargo</u>	
+ <u>roysi</u> Av. & Shou.		<u>Tel. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>=A. anaphus anausis</u>	
+ <u>samson</u> Ev.		<u>A. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>A.</u>	<u>Nar.</u>
<u>santiago</u> Luc.		<u>Eud. Eud.</u>	<u>Eud.</u>	<u>Eud.</u>	<u>Eud.</u>	<u>Eud.</u>	<u>U. dorantes</u>	
+ <u>siges</u> Mab.		<u>Tel. ----</u>	<u>----</u>	<u>Tel.</u>	<u>Tel.</u>	<u>=Tel. creteus</u>	<u>A. creteus</u>	
<u>simplicius</u> Stoll		<u>P. Eud.</u>	<u>Eud.</u>	<u>Eud.</u>	<u>Eud.</u>	<u>Gon.</u>	<u>U.</u>	
<u>subblasius</u> Strand		<u>Tel. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>=Tel. elorus</u>	<u>=A. elorus</u>	
<u>subfasciatus</u> RÖb.		<u>Thy. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>=A. naxos</u>	
<u>sumadue</u> Luc.		<u>Eud.</u>			<u>p.90 Tel.?</u>	<u>=Tel. talus</u>	<u>=A. talus</u>	
					<u>p.108 Thy.</u>			
+ <u>*takuta</u> Ev.		<u>U. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>U. albimargo</u>	
<u>talhybius</u> Mab. <sup>5</sup>		<u>Eud.</u>		<u>Eud.</u>	<u>Eud.</u>	<u>A.</u>	<u>A.</u>	
<u>talus</u> Cr.		<u>P.</u>	<u>Gon.</u>	<u>Gon.</u>	<u>Gon.</u>	<u>Tel.</u>	<u>A.</u>	
+ <u>tanna</u> Ev.		<u>U. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>U.</u>	
# <u>telegonoides</u> Mab.&Bou.Thy.		<u>----</u>	<u>----</u>	<u>----</u>	<u>Thy.</u>		<u>=A. latimargo R. bifascia</u>	
<u>teleus</u> Hbn.		<u>Gon.</u>					<u>U.</u>	
+ <u>thiemei</u> Ehr.		<u>Thy. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>=U. simplicius</u>	
+ <u>*tinda</u> Ev.		<u>A. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>A. latimargo</u>	
<u>torones</u> Hbn.		<u>Gon.</u>					<u>=U. dorantes</u>	
<u>trebia</u> Mös.		<u>Thy. Eud.</u>	<u>Eud.</u>	<u>Eud.</u>	<u>Eud.</u>		<u>U. carmelita</u>	
+ <u>triptolemus</u> Ehr.		<u>Gon. ----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>----</u>	<u>=U. albimargo</u>	

Table 1 cont.

Specific name and author	OD	Watson	G. & S.	Mabille	Mab. & Bou.	Williams Wms. & Bell	Evans	Steinhauser
+ <u>tucuti</u> Wms.	Tel.	----	----	----	----	Tel.	A.	
+ <u>uridon</u> Dyar	Thr.	----	----	----			=A. <u>alector hopfferi</u>	
<u>velinus</u> Pl.	Gon.			Eud.	=Eud. <u>dorantes</u>	=Eud. <u>dorantes</u> f.	=U. <u>dorantes</u>	
<u>virens</u> Rüb.	Gon.	----	----	----	----		=A. <u>talus</u>	
+ <u>virescens</u> Mab.	Eud.	Eud.		Eud.	Eud.	Eud.	U.	
+ <u>viridis</u> Free.	U.	----	----	----	----	----	----	U.
+ <u>viterboana</u> Ehr.	Thy.	----	----	----			U.	U.
+ <u>weymeri</u> Pl.	Aeth.				=Tel. <u>chiriquensis</u>	=Tel. <u>chiriquensis</u>	=A. <u>chiriquensis</u>	
<u>xagua</u> Luc.	Eud.			Tel.	Tel.	Tel.	A.	
+ <u>zagorus</u> Pl.	Gon.			=Eud. <u>simplicius</u>	=Eud. <u>eurycles</u>	=Gon. <u>eurycles</u>	U.	
+ <u>zalanthus</u> Pl.	Gon.			=Eud. <u>simplicius</u>	=Eud. <u>eurycles</u>	=Gon. <u>eurycles</u>	=U. <u>teleus</u>	

\* \* \*

- , 1865-1875. Rhopalocera. In Reise der Osterreichischen Fregatte "Novara"..... Vienna. vi + 549 pp., 140 pls.
- Freeman, H. A., 1967. Three new species of Hesperiiidae from Mexico. J. Lep. Soc. 21(2): 115-119, 1 pl., figs.
- , 1969. Records, new species and a new genus of Hesperiiidae from Mexico, J. Lep. Soc. 23 (Suppl. 2): 1-62, 29 figs., 73 pls.
- , 1970. A new genus and eight new species of Mexican Hesperiiidae (Lepidoptera). J. New York ent. Soc. 78(2): 88-99, 10 figs., 14 pls.
- Geyer, C. M., 1832-1937. In Hübner, Beiträge zur Sammlung Exotischer Schmetterlinge.
- Godman, F. D., 1907. Note on the American species of Hesperiiidae described by Plötz. Ann. Mag. Nat. Hist. 7(20): 132-155.
- and O. Salvin, 1879-1901. Biologia Centrali-Americana. Insecta. Lepidoptera-Rhopalocera. 3 vols. London.
- , 1896. On the butterflies of St. Vincent, Grenada and the adjoining islands of the West Indies. Proc. zool. Soc. Lond. (2): 513-520.
- Hayward, K. J., 1933. Revision of Argentine Hesperiiidae. Revta. Soc. ent. Argent. 5: 149-188, 9 pls.: 219-275, 14 pls.
- , 1935. Additions to Pamphilinae of Argentina. An. Soc. cient. Argent. 119: 262-266, 5 figs.
- , [1939] "1938". Hesperioidea Argentina VIII. an. Soc. cient. Argent. 126: 429-459, 43 figs.
- Hemming, F., 1933. On the types of certain butterfly genera. Entomologist 66:196-200.
- , 1934. Generic names of Holarctic butterflies. British Museum (Natural History), London, viii + 184 pp.
- Herrich-Schäffer, G. A. W., 1862. Schmetterlinge aus Cuba. CorrespBl. zool-min. Ver. Regensb. 16: 141-143.
- , 1869. Neue Schmetterlinge aus dem Museum Godeffroy in Hamburg. Stett. ent. Ztg. 30 (1-3): 65-80 pls. 1-4.
- Hewitson, W. C., 1867-1868. Descriptions of one hundred new species of Hesperiiidae. London. 1: ii + 25 pp.; 2: 26-56.
- , 1876. Descriptions of twenty new Species of Hesperiiidae. Ann. Mag. nat. Hist. (4)18: 347-355.
- , 1877. Descriptions of twenty-three new species of Hesperiiidae from his own collection. Ann. Mag. nat. Hist. 4(20): 319-328.

- Holland, W. J., 1916. The Lepidoptera of the Isle of Pines, . . . . Ann. Carn. Mus. 10 (3-4): 487-518, pl. 31.
- Horn, W. and I. Kahle, 1935-1937. Über entomologische Sammlungen. Entomol. Beihefte Berlin-Dahlem 3 vol.: 1-536, pls. 1-38.
- Hübner, J., 1806-[1832]. Sammlung exotischer Schmetterlinge. Augsburg, Bd. 1, 213 Taf.
- , 1816-1826. Verzeichniss bekannter Schmettlinge [sic]. Augsburg, 431 pp.
- Joicey, J. J. and G. Talbot, 1924. Descriptions of four new butterflies. Entomologist 57: 37-40.
- de Jong, R., 1983. Annotated list of the Hesperidae (Lepidoptera) of Surinam, with descriptions of new taxa. Tijdschrift voor Entomol. 126(11): 233-268, figs. 1-69.
- Lathy, P. I., 1904. A contribution towards the knowledge of the Lepidoptera-Rhopalocera of Dominica, B. W. I. Proc. zool. Soc. Lond. (1)(2): 450-454.
- Latreille, P. A., 1819-1824. In Latreille and Godart, Encyc. Méth. 9 & Suppl.: 828 pp.
- Linné, K. von, 1758. Systema naturae . . . . regnum animale. Ed. 10 Stockholm: 824 pp.
- Lucas, P. H., 1857. Ordre des Lépidoptères. In de la Sagra, Histoire physique, politique et naturelle de l'Île de Cuba. 7: 474-750.
- Mabille, P., 1875. Quelques diagnoses d'Hesperiens. Bull. Soc. ent. Fr. (5)5: 213-215.
- , 1877. Descriptions de Lépidoptères nouveaux du groupe des Hespérides (8-13). Petites Nouv. ent. 2(179): 161-162.
- , 1877. [Diagnoses de nouvelles espèces d'Hespérides]. Bull. Soc. ent. Fr. (5)7: 39-40.
- , 1888. Diagnoses de Lépidoptères (Hespérides) Nouveaux. Naturaliste 10=(2)2 (27): 98-99, 5 f.; (28): 108-109, 5 f.; (31): 146-148, 7 f.; (33): 169-171, 9 f.
- , 1891. Description d'Hespérides nouvelles. Part 1. C. R. Soc. ent. Belg. 35: 59-88.
- , 1903-1904. Lepidoptera Rhopalocera. Family Hesperidae. Gen. Insectorum 17: 1-210.
- , 1912. In Mabille and Boulet, 1912. (q. v.).
- and E. Boulet, 1912. Essai de revision de la Famille des Hespérides. 2. Subfamily Hesperinae. Ann. Sci. nat. zool. (9)16: 1-159, 2 pls.
- and P. Vuillot, 1891-1895. Novitates Lepidopterologicae. Paris 4 to (12 fasc.): 161 pp., 22 pls.
- Ménétriés, E., 1855-1857. Enumeratio corporum animalium musei imperialis Academiae Scientiarum Petropolitanae Part I: Lepidoptera Diurna. St. Petersburg. viii + 97 pp., 6 pls.
- Möschler, H. B., 1878. Neue exotische Hesperidae. Verh. zool.-bot. Ges. Wien 28: 203-230.
- dos Passos, C. F., 1960. Taxonomic notes on some Nearctic Rhopalocera, 1. Hesperioidea. J. Lep. Soc. 14(1): 24-36.
- Plötz, C., 1880. Die Hesperinen-Gattung *Goniurus* Hübner und ihre Arten. Bull. Soc. imperiale des Naturalistes de Moscou. T. 55(2): 22 pp., 6 pls.
- , 1881. Die Hesperinen-Gattung *Eudamus* und ihre Arten. Stett. ent. Ztg. 42: 500-504.
- , 1882. Einige Hesperinen-Gattungen und deren Arten. Berlin ent. Ztg. 26: 253-266.
- , 1886. Nachtrag und Berichtigungen zu den Hesperinen. Stett. ent. Ztg. 47: 83-117.
- Reakirt, T., [1867]. Descriptions of some new species of diurnal Lepidoptera. Proc. Acad. nat. Sci. Phila. 18: 331-342.
- Riley, N. D., 1919. Some new Phopalocera from Brazil collected by E. H. W. Wickham, Esq. Entomologist 52: 200-202.
- Röber, J. K. M., 1925. Neue Südamerikanische Falter (Lep.). Ent. Mitt. 14: 85-100; 156-162.
- Schaus, W., 1902. Descriptions of new American butterflies. Proc. U. S. Natn. Mus. 24(1262): 383-460.
- Scudder, S. H., 1872. A systematic revision of some of the North American butterflies . . . . 4th Ann. Rept. Peabody Acad. Sci. (1871): 24-83.
- Sepp, J., 1828-1848. Surinaamsche Vlinders . . . . Amsterdam, Verfassers 3 vols. 1: 1-108, pls. 1-50.
- Sharpe, E. M. B., 1898. On a collection of Lepidopterous Insects from San Domingo . . . . Proc. zool. Soc. Lond. 1898 (3): 362-369.
- Skinner, H., 1895. Notes of Rhopalocera, with Descriptions of New Species. Ent. News 6(4): 112-114.
- , 1920. Descriptions of new species of Hesperidae. Ent. News 31(5): 132-135.

- Staudinger, O., 1875. Neue Lepidopteren des südamerikanischen Faunengebiets. Verh. zool.-bot. Ges. Wien 25: 89-124.
- Steinhauser, S. R., 1981. A revision of the *proteus* group of the Genus *Urbanus* Hübner, Lepidoptera: Hesperidae. Bull. Allyn Mus. 62: 1-41, 61 f.
- , 1983. Notes on *Ridens* Evans, 1952 with description of a new species from Mexico. Bull. Allyn Mus. 79: 1-7, 6 f.
- , 1986. A review of the skippers of the *narcosius* group of species of the genus *Astraptus* Hübner (*sensu* Evans, 1952) and erection of a new genus. Lepidoptera: Hesperidae. Bull. Allyn Mus. 104: 1-43, 79 f.
- Stoll, C., 1780-1790. In Cramer, P. De Uitlandsche Kapellen.
- Strand, E., [1921]. Systematisch-faunistische Beiträge zur Kenntnis exotischer Heterocera und Grypocera..... Arch. Naturgesch. (A) 86(7): 113-172.
- Swainson, W., 1829-1833. Zoological Illustrations.....[series 2] London 3 vols.; pls 1-136.
- Walch, J. E. E., 1775. Beiträge zur Insectengeschichte (2). Naturforscher 7: 113-116, pl. 1.
- Watson, E. Y., 1893. A proposed classification of the Hesperidae, with a revision of the genera. Proc. zool. Soc. Lond. 1893 (1): 3-132, pls. 1-3.
- Westwood, J. O., 1846-1852. In Doubleday *et al.*, Gen. diurn. Lep.
- Williams, F. X., 1911. The butterflies and hawk-moths of the Galapagos Islands, Proc. Calif. Acad. nat. Sci. (4)1: 289-322, pls. 20, 21.
- Williams, R. C. Jr., 1926. Studies in the Neotropical Hesperoidea (Lepidoptera). Trans. American ent Soc. 52: 61-88, 3 pls., 28 figs.
- , 1927. Studies in the Neotropical Hesperoidea. Paper II. Trans. American ent. Soc. 53(3): 261-292, pls.; 24, 25; f. 1-34.
- , 1931. Two new Hesperids from Ecuador. Trans. American ent. Soc. 57: 288-290.
- and E. L. Bell, 1934, Studies in the American Hesperoidea (Lepidoptera) II. On the synonymy and genitalia of some species. Trans. American ent. Soc. 60: 17-30, 1 pl.

This public document was promulgated at a cost of \$729.00 or \$1.04 per copy. It makes available to libraries, scholars and all interested persons the results of researches in Entomology.