

Annotated list of Tortricidae recorded from Vietnam (Lepidoptera)

V.I. Kuznetsov

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An annotated list of 208 species of tortricid moths from Vietnam is presented. In the course of this study collections of the Zoological Institute, St.Petersburg, including material from the northern and southern parts of Vietnam collected by the author, as well as all literature data on the vietnamese Tortricidae were used. The following new synonymies are established: *Rhopobota blanditana* (Kuzn.) = *Griselda nielseni* Kawabe; *Acanthoclitia balanoptycha* (Meyr.) = *Eucosma hilarocrossa* (Meyr.). A description of *Penthostola tricolorana* sp. n. similar to *P. semna* Diak. (Olethreutini) from Southern Vietnam (Kannak, prov. Gialai) is given.

V.I. Kuznetsov. Zoological Institute, Russian Academy of Sciences, Universitetskaya nab. 1, 199034 St.Petersburg, Russia.

Introduction

The family Tortricidae forms a rather natural and well defined taxon, which may be used as a model group for study of different parameters of biodiversity. The necessity of studies in this group increases also with the growing damage caused by exophagous and endophagous larvae of Tortricidae to the fruit trees, forest, park and agricultural plants.

The tortricid moth fauna of Vietnam includes many species belonging to almost 80 genera, among them some species described recently. The data available and our field experience show that in spite of rather intense recent investigations this fauna still remains insufficiently known. Meanwhile, the necessity in a general list of these moths in Vietnam is obvious. During the preparation of this first general list of Tortricidae of the vietnamese fauna the following sources of information were used: collections of the Zoological Institute RAS (St.Petersburg) including author's own material of 1986 and 1988 from the northern and southern provinces of Vietnam; earlier works (Meyrick, 1931; Anonym, 1976), although some data recorded there need confirmation; the published regional reviews of Tortricinae, Olethreutini and Grapholitini in which identifications of species were based on genital structures

(Kuznetsov, 1988b, 1992b, 1994), as well as faunistic and taxonomic papers (Diakonoff, 1948; Kuznetsov, 1988a, 1988d, 1997a, 1997b; Razowski, 1989a, 1992; Jaroš & Spitzer, 1991) on the tortricids of this republic. Several papers on the Olethreutinae of Thailand (Kawabe, 1987a, 1987b, 1989) with a check-list and descriptions of species also were used. Additional data on the distribution of species and their host plants were taken from literature (Diakonoff, 1939, 1941, 1968, 1973, 1976, 1982, 1983a; Clarke, 1958; Common, 1965; Razowski, 1970, 1977, 1987, 1989b).

The main localities and characteristics of personal collecting of tortricid moths in 1986 and 1988 were reported earlier (Kuznetsov, 1988c, 1997b). Therefore only the general list of localities (Fig. 1) is given in this work.

Northern Vietnam

Chapa (Shapa), prov. Laokay (Choanlienshon) (Meyrick, 1931, Petelot leg.; Diakonoff, 1948).

Chienghouan (Chiengchouan), prov. Sonla, 13.V. 1986 (V.I. Kuznetsov leg.).

Choganh (Tiegan), prov. Thanam Ninh (A. Duport leg.), delta of Red River (Meyrick, 1931).

Hanoi, 29.III-7.IV.1986 (V.I. Kuznetsov leg.), also (Meyrick, 1931; Diakonoff, 1948).

Hoabinh, prov. Hashonbinh (Meyrick, 1931).

Hoangsuphi (Hoangduphi), prov. Hatuen (Robert leg.) (Meyrick, 1931).

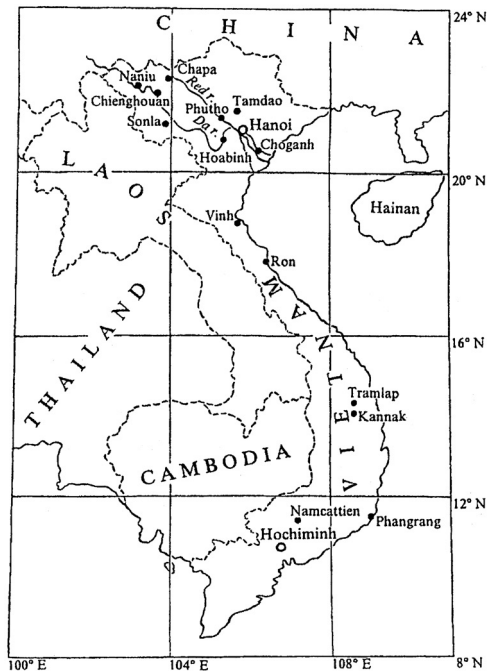


Fig. 1. The main collecting sites of tortricid moths in Vietnam.

Naniu, prov. Sonla, 4-12.V.1986 (V.I. Kuznetsov leg.).
 Phutho, prov. Vinhphu (A. Duport leg.) (Meyrick, 1931).
 Tamdao, prov. Vinhphu (A. Duport leg.) (Meyrick, 1931), 8-13.IV.1986 (V.I. Kuznetsov leg.), VII.1986 (J. Razowski leg.) (Razowski, 1989a, 1992).
 Thainguyen, prov. Bacthai, 14.IV.1986 (V.I. Kuznetsov leg.).

Southern Vietnam

Kannak (Kannack), prov. Gialai (earlier Gialai-Kontum), 9-16.XI.1988 (V.I. Kuznetsov leg.).
 Namcattien forest reserve (National Park), prov. Dongnai (Jaroš & Spitzer, 1991).
 Tramlap, prov. Gialai (earlier Gialai-Kontum), 9-16.XI.1988 (V.I. Kuznetsov leg.).

As the composition and relationships of the genera are still insufficiently elaborated, genera and species are arranged according to the earlier proposed classifications of some tribes (Razowski, 1970, 1987, 1989b; Diakonoff, 1973; Kuznetsov, 1989, 1994) with new essential additions.

For most species mentioned, references to 1-2 published figures of the male (sometimes female) genitalia better showing the characters of morphological structures are given.

This is the feature distinguishing the present list from other taxonomic works. The preference is given to figures published by the author or in taxonomic revisions (Clarke, 1958; Diakonoff, 1973; Razowski, 1977). The male genitalia of some species of the vietnamese fauna were described with musculature (Kuznetsov & Stekolnikov, 1991, 1994).

For some species the flight period of moths and host plants of larvae are recorded. The scientific names of the host plants are taken only from literature (Diakonoff, 1941, 1973; Kawabe, 1979). As a result, a list of 208 species of Tortricidae recorded from Vietnam with the main synonyms is given.

List of species

Subfamily TORTRICINAE

Tribe Cochylini

Eupoecilia wegneri (Diakonoff, 1941). (Kuznetsov, 1992b, Fig. 1). Kannak, 12.XI.1988; Tramlap, 21.XI-7.XII.1988. – Indonesia.

E. tenggerensis (Diakonoff, 1949). (Razowski, 1968, Figs 4-6). Tamdao, 23-29.VI.1986 (Razowski, 1989a), 10.IV.1986; Kannak, 15.XI.1988; Tramlap, 21.XI-15.XII.1988. – Indonesia.

Aprepodoxa mimocharis Meyrick, 1937. (Razowski, 1970, Pl. 161, Fig. 290, ♀). Chapa (Meyrick, 1931). Material from Hatay (Anonym, 1976) identified as *Euxanthis cosmolitha* Meyrick, 1931 apparently also belongs to *A. mimocharis* Meyr. – China.

Phalonidia mellita (Meyrick, 1916). Anchau (Meyrick, 1931). This record possibly refers to the transpalaeartic *Ph. vectisana* (Humphreys & Westwood, 1845). – China, Sri Lanka.

Tribe Euliini

Terthreutis sphaerosoma Meyrick, 1918 (= *duosticta* Wileman & Stringer, 1929). (Clarke, 1958, Pl. 115, Figs 1c, 1d). Chapa (Diakonoff, 1948). – China, India, Myanmar, Bangladesh.

T. argentea (Butler, 1886). (Razowski, 1992, Fig. 4, ♀). Tamdao, 18-21.VII.1990. (Razowski, 1992). – India.

Tribe Epitymbiini

Mimeoclysia mauroprosopa Diakonoff, 1983b, Figs 3-4. Tramlap, 26-30.XI.1988. – Indonesia.

Tribe Tortricini

Paratorna dorcas Meyrick, 1907. (Clarke, 1958, Pl. 85, Fig. 1d). Prov. Quangninh, Quanguen (Meyrick,

1931). – India, Indonesia. Larvae on leaves of *Schima noronchae* (Diakonoff, 1941).

Cnestoboda celligera (Meyrick, 1918) (= *glauco-prosopis* Meyrick, 1931). (Clarke, 1958, Pl. 55, Figs 2a, 2b). Hanoi, 30.III.1986; Tamdao, 10-14.IV.1986; Naniu, 5-10.V.1986; Chienghouan, 13.V.1986; Choganh (Meyrick, 1931). – China, India, Malaysia, Sri Lanka, Indonesia. Larvae on leaves of *Litchi chinensis*, *Nephelium lappaceum* and *Schleicheria oleosa* (Diakonoff, 1982).

C. facilis (Meyrick, 1912). (Clarke, 1958, Pl. 55, Figs 4a, 4b). Kannak, 11.XI.1988; Tramlap, 30.XI.1988. – India.

Acleris extensana (Walker, 1863) (= *divisana* Walker, 1863; *agrioma* Meyrick, 1920). (Clarke, 1958, Pl. 1, Fig. 2b). Chapa (Diakonoff, 1948). – Southern Asia to the Shantung Peninsula in the north. Larvae on *Malus* and *Rosa* (interlaced leaves).

A. compsoptila (Meyrick, 1923). (Clarke, 1958, Pl. 2, Figs 3a-3c). Tamdao, 13.IV.1986. – India. This species displays close relationship with *A. extensana* Meyr. and might be its junior synonym.

Trophocosta maculifera Kuznetsov, 1992b, Fig. 3. Tramlap, 25.XI.1988. – This species displays close relationship with *T. tucki* Razowski, 1986 from Nepal and might be its junior synonym.

Tymbarcha cerinopa Meyrick, 1908. (Clarke, 1958, Pl. 129, Fig. 1c). Kannak, 11.XI.1988. – India, Thailand, Malaysia, Indonesia.

Spatalistis dulcedana Kuznetsov, 1992a, Fig. 18. Tramlap, 9, 14.XII.1988.

Reptilisocia paryphaea (Meyrick, 1907). (Clarke, 1958, Pl. 113, Figs 2a, 2b). Tamdao, 10.IV.1986; 24.VI.1986 (Razowski, 1989a). – Thailand, India.

Archigraptis limacinoides Kuznetsov, 1992a, Fig. 15. Kannak, 11.XI.1988.

Tribe Schoenotenini

Protarchella nivis (Diakonoff, 1941). (Diakonoff, 1960, Figs 41, 43). Tamdao, 10.IV.1986. – Malaysia, Indonesia.

Tribe Ceracini

Cerace lemeepauli Lemée, 1950. (Diakonoff, 1970, Figs 7-8, ♀). Haut Tonkin (North Vietnam), Backan. – This species known only from the female holotype from Vietnam displays close relationship with *C. stipatana* Walker, 1863.

C. charidotus Razowski, 1992, Fig. 3. Tamdao, 15-17.V.1990 (holotype, ♀).

Tribe Archipini

Ulodemis trigrapha Meyrick, 1907. (Clarke, 1958, Pl. 130, Figs 1c, 1d). Hoangsuphi (Meyrick, 1931); Tamdao, 13.IV.1986, 27-29.VI.1986; Naniu, 8.V.1986; Tramlap, 21.XI-9.XII.1988. – Nepal, India, Indonesia. Polyphagous larvae on interlaced leaves of *Camellia*, *Cinnamomum*, *Citrus*, *Nephelium* (Diakonoff, 1941).

Homona coffearia (Nietner, 1861) (= *menciana* Walker, 1863; *simulana* Walker, 1866; *socialis* Meyrick, 1912). (Diakonoff, 1939, Figs F-H). Hoabinh (Diakonoff, 1948); Chaganh, Phutho, Hoangsuphi (Meyrick, 1931); Tamdao (Jaroš & Spitzer, 1991); Hoabinh, 1-4.VI.1990 (Razowski, 1992); town Sonla, 2.V.1986; Naniu, 8-12.V.1986; Chienghouan, 13.V.1986; Kannak, 12-16.XI.1988; Tramlap, 21.XI-9.XII.1988; Namcattien, XI.1989, Phangrang, Nhaho, IV-V.1982 (Jaroš & Spitzer, 1991). – Southern Asia to the Shandung Peninsula and Japan in the north. Polyphagous larvae on leaves of rainforest arboreal plants. Dangerous pest of tea plants, also of *Citrus* and other fruit plants.

H. difficilis (Meyrick, 1928) (= *permutata* Meyrick, 1928). (Clarke, 1958, Pl. 19, Figs 3a, 3b; Diakonoff, 1968, Fig. 16). Tamdao, 10.IV.1986; Kannak, 15.XI.1988; Tramlap, 26.XI.1988; Namcattien, XI.1989 (Jaroš & Spitzer, 1991). – Southern China, Thailand, Nepal, India, Philippines, Indonesia.

H. encausta (Meyrick, 1907). (Clarke, 1958, Pl. 19, Figs 4a, 4b). Tramlap, 28.XI, 7.XII.1988. – Thailand, Nepal, India, Sri Lanka.

H. superbana Kuznetsov, 1992a, Fig. 20. Tramlap, 21.XI-6.XII.1988.

H. tabescens (Meyrick, 1921). Choganh (Diakonoff, 1948); Kannak, 15.XI.1988. – China, Thailand, Indonesia. Polyphagous larvae on leaves and generative organs of *Gossypium*, *Jatropha*, *Eucalyptus*, *Calophyllum inophyllum*, *Lagerstroemia speciosa*, *Lantana camara* (Diakonoff, 1941).

Syndemis duplex Diakonoff, 1948. Chapa, Tamdao (Razowski, 1992). – Known only from Vietnam.

Archips asiaticus (Walsingham, 1900) (= *contemptrix* Meyrick, 1925). (Razowski, 1977, Figs 19-23). Prov. Bacthai (Anonym, 1976). – China, Korea. Polyphagous larvae on fruit trees and forest plants (interlaced leaves).

A. sedulosus (Meyrick, 1921) (= *brachytoma* Meyrick, 1932). Razowski, 1977, Figs 42, 43). Chapa and Hoabinh (Diakonoff, 1948). – Thailand, Malaysia, Indonesia. Polyphagous larvae on *Citrus*, *Ricinus*, *Glycine*, *Solanum*, *Albizza*, *Derris*, *Tephrosia*, *Cinnamomum*. Presumably on leaves, young shoots and buds (Diakonoff, 1941).

A. oporanus (Linnaeus, 1758) (= *similis* Butler, 1879; *impervia* Meyrick, 1931; *bathyglypta* Meyrick, 1932). (Razowski, 1977, Figs 44-45; Kuznetsov, 1978, Fig. 341, 3). Hoangsuphi (Meyrick, 1931). Description of the genital structures of holotype of *Caecocia impervia* Meyr. from Hoangsuphi has been published (Razowski, 1977). – Holarctic to Northern Vietnam in the south. Larvae on coniferous trees: *Pinus*, *Abies*, *Larix* (interlaced needles).

A. atrolucens (Diakonoff, 1941). (Razowski, 1977, Figs 76, 77). Hanoi (Diakonoff, 1948). – Indonesia. Larvae on *Melia azedarach* and *Ebodia* sp. (Diakonoff, 1941) on interlaced leaves.

A. arcanus Razowski, 1977, Figs 10, 12. Hanoi, 1-3.IV.1986; Tamdao, 9-10.IV.1986. – China.

A. compitalis Razowski, 1977, Figs. 90, 91. Tamdao, 24-28.VII.1986 (Razowski, 1989a). – China.

A. dispilanus (Walker, 1864) (= *mimicus* Walsingham, 1900). (Razowski, 1977, Figs 95-98). Vietnam (Diakonoff, 1982). This record possibly refers to

some of the following species. – India, Sri Lanka. Polyphagous larvae on leaves of *Citrus*, *Prunus*, *Duranta*, *Psidium guajana*, *Lantana camara*.

A. micaceanus (Walker, 1863) (= *epicyrta* Meyrick, 1905; *euroca* Diakonoff, 1958). (Razowski, 1977, Figs 101, 102). Phutho (Meyrick, 1931); Hanoi (Razowski, 1977); Hoabinh, 25.V-9.VI (Razowski, 1992). – China, Thailand, Myanmar. Records from Malaysia and Indonesia not confirmed by material (Tuck, 1990). Polyphagous larvae on leaves of *Citrus*, *Ricinus*, *Iriga*, *Hibiscus*, *Phaseolus*, *Glycine*. ♂

A. machlopiis (Meyrick, 1912) (= *compacta* Meyrick, 1918; *isocyrtia* Meyrick, 1920; *seminubilis* Meyrick, 1931; *?excurvatus* Meyrick, 1931; *transcutata* Meyrick, 1935; *micaceana* auct.). (Kuznetsov, 1992b, Fig. 4). Hoangsuphi (Meyrick, 1931); Tamdao, 25-29.VII.1986 (Razowski, 1989a), X.1989 (Jaroš & Spitzer, 1991); town Sonla, 2-3.V.1986; Naniu, 5-10.V.1986; Chienghoan, 13.V.1986; Kannak, 12-15.XI.1988; Namcattien, XI.1989; Phangrang, Nhaho, IV-V.1982; Ductrong, X.1984 (Jaroš & Spitzer, 1991). – Southern Asia to Nepal and China in the north. Polyphagous larvae presumably on leaves, also on shoots, seeds, pods of *Thea*, *Citrus*, *Medicago*, *Rumex*, *Salix*, *Litchi chinensis*, *Gloriosa superba*, *Cedrella toonica* (Tuck, 1990).

A. magnificus Tuck, 1990, Fig. 33. Tamdao, 25-27.VI.1986 (Razowski, 1992). – Malaysia, Indonesia.

A. emitescens (Meyrick, 1931). (Razowski, 1960, Figs 4, 5). Choganh, Chocay, 20-30.IV (Meyrick, 1931). – Systematic status remains vague, probably it is a synonym. The species is known only from the original description and type material from Vietnam.

A. eductanus (Walker, 1863). Choganh, Phutho (Meyrick, 1931). – Southern Asia. Larvae probably polyphagous, recorded on *Morus* and *Camellia* (interlaced leaves and flowers). The taxonomic position of this little-known species remains problematic.

Chiraps alloica (Diakonoff, 1948). (Diakonoff & Razowski, 1971, Fig. 1). Tamdao, 13.IV.1986, 14-24.V.1986 (Razowski, 1992); Tramlap, 27.XI and 3.XII.1988. – Indonesia.

Meridemis vietorum Razowski, 1989 (= *invalidana* auct.). (Kuznetsov, 1992b, Fig. 5). Hanoi (Meyrick, 1931); Tamdao, 23-29.VII.1986 (Razowski, 1989a), 15-21.V.1990 (Razowski, 1992), IX.1988, X.1984 (Jaroš & Spitzer, 1991); Chienghoan, 13.V.1986; Namcattien, X.1989, Nhaberungsat, XI.1989; Ductrong, X.1984 (Jaroš & Spitzer, 1991, as *Meridemis* sp.). – Known only from Vietnam.

M. furtiva Diakonoff, 1976, Figs 86, 87. Tamdao, 9-10.IV.1986; Naniu, 5-12.V.1986; Chienghoan, 13.V.1986; Kannak, 9.XI.1988; Tramlap, 26.XI.1988. – China, Nepal, Thailand, Malaysia, Indonesia.

Lamoria probolias (Meyrick, 1907) (= *minuta* auct.). (Razowski, 1987, Figs 444, 447). Tamdao, 26.VII.1986 (Razowski, 1989a); Tramlap, 21.XI-5.XII.1988. – China, Nepal, Thailand, India, Indonesia, Africa (Uganda, Malawi).

Isodemis serpentina (Walker, 1863). (Diakonoff, 1952, Figs 12, 14). Tamdao, 9.IV.1986; Tramlap, 1.XII.1988. – Thailand, India, Sri Lanka, Indonesia, New Guinea. Polyphagous larvae on interlaced leaves of *Thea*, *Citrus*, *Linum*.

I. illiberalis (Meyrick, 1918) (= *interjecta* Meyrick, 1922; *montivola* Diakonoff, 1941). (Clarke, 1958, Pl. 120, Figs 4a, 4c, ♀). Chapa (Diakonoff, 1948); Tamdao, 25-29.VII.1986 (Razowski, 1989a); 9.IV.1986; 11-24.V.1990 (Razowski, 1992). – Nepal, India.

Daemilus fulvus (Filipjev, 1962) (= *mutaurai* Yasuda, 1975). (Razowski, 1987, Figs 521, 522). Tamdao, 15-21.V (Razowski, 1992). – Russia (Primorsk Terr.), Korea, Japan, China. Larvae on *Picea* and *Abies* (Razowski, 1987).

Neocalyptis affinisana (Walker, 1863). (Diakonoff, 1976, Pl. 3, Fig. 7). Choganh, Hanoi (Meyrick, 1931); Hoabinh (Diakonoff, 1948); Tamdao, 8-9.IV.1986; Naniu, 4-12.V.1986; Chienghoan, 13.V.1986; Kannak, 12-15.XI.1988; Tramlap, 24.XI-14.XII.1988; Hochiminh (Saigon), IV.1984; Namcattien, XI.1989, Ductrong, X.1984 (Jaroš & Spitzer, 1991). – China, Japan, Nepal, India, Sri Lanka. Larvae probably polyphagous (Diakonoff, 1982).

N. krzeminskii Razowski, 1989a, Figs 9-11. Tamdao, 24.VII.1986; 1-4.VI.1990 (Razowski, 1992).

N. sodaliana Kuznetsov, 1992b, Fig. 6. Tramlap, 21.XI-12.XII.1986.

N. tricensa (Meyrick, 1912). (Clarke, 1958, Pl. 128, Figs 3a, 3b). Tramlap, 26.XI-12.XII.1988. – South-Eastern Asia to Primorsk Terr. of Russia and Japan in the north. This species is possibly a junior synonym of *N. lirata*na (Christoph, 1881).

Diplocalyptis apona Diakonoff, 1976. (Razowski, 1987, Figs 495, 497). Tamdao, 10, 11.IV.1986, 26.VII.1986 (Razowski, 1989a); Naniu, 9.V.1986. – Nepal, India.

Electraglaia isozone (Meyrick, 1908). (Clarke, 1958, Pl. 122, Figs 2a, 2b). Tamdao, 8-13.IV.1986; 26-28.VII.1986 (Razowski, 1989a). – China, Nepal, India.

Isotenes inae (Diakonoff, 1948). (Kuznetsov, 1992b, Fig. 7; Kuznetsov & Stekolnikov, 1994, Figs 9-10). Tramlap, 24.XI-20.XII.1988. – Thailand, Nepal, India, Malaysia, Indonesia. Polyphagous larvae on rainforest plants (leaves).

Harmologa miserana (Walker, 1863). Hoangsuphi (Meyrick, 1931). – Indonesia. Polyphagous larvae on *Thea*, *Citrus*, *Pinus merkusii* (Diakonoff, 1941).

Planostocha cumulata (Meyrick, 1907). (Clarke, 1958, Pl. 90, Figs 1c, 1d). Tramlap, 21.XI-3.XII.1988. – India, Sri Lanka, Indonesia. Larvae on leaves of *Lantana* (Diakonoff, 1939).

Callibryastis pachnota Meyrick, 1912. (Diakonoff, 1983a, Pl. 4, Figs. 7-8). Chapa, Tamdao (Diakonoff, 1948). – India.

Ochetarcha elephantodes (Meyrick, 1938). (Clarke, 1958, Pl. 85, Fig. 2a, 2b). Naniu, 7.V.1986. – Indonesia.

Adoxyphes orana fasciata (Walsingham, 1900). Tamdao (Meyrick, 1931). – China, Japan. This Asian subspecies is common on *Malus* and *Pyrus*, but occurs also on forest plants. Polyphagous larvae on leaves, buds and generative organs.

A. privatana (Walker, 1863). Tamdao, V-VII (Diakonoff, 1948; Razowski, 1992); Choganh, Hoangsuphi (Meyrick, 1931); Hoabinh, V.1990 (Razowski, 1992). – Eastern and Southern Asia to Korea and Japan in the north. Polyphagous larvae have been recorded on 30 species of plants (Diakonoff,

1941): *Thea*, *Citrus*, *Rosa*, *Eugenia*, *Glycine*, *Derris*, *Theobroma*, *Solanum*, *Linum*, *Litsea*, *Hibiscus*, *Carica papaya*, *Litchi chinensis* and other. On leaves, shoots and fruits.

A. fasciculana (Walker, 1866) (= *cyrtosema* Meyrick, 1886; *luzonica* Sauber, 1902; *epipepla* Lower, 1908). (Clarke, 1958, Pl. 10, Figs 1a, 1b). Tramlap, 24.XI-21.XII.1988. – Southern Asia, Australia, Pacific Islands. Polyphagous larvae on *Thea*, *Rosa*, *Morus*, *Gossypium*, *Arachis*, *Batat*, *Amaranthus*, *Euphorbia*, *Passiflora*, *Indigofera*, *Scutellaria*, *Emilia*, *Gnaphalium* and other (Diakonoff, 1982). This species is probably a junior synonym to *A. privatana* Wlkr.

A. parastrophia (Meyrick, 1912). (Kuznetsov, 1992b, Fig. 8). Choganh (Meyrick, 1931); Naniu, 9.V.1988; Chienghouan, 13.V.1988, Tramlap, ex. 1., 22.XII.1988. – Nepal, India.

A. flagrans (Meyrick, 1912). (Clarke, 1958, Pl. 10, Figs. 4a, 4b, 4c). Tamdao (Diakonoff, 1948). – Myanmar.

Scotiophies sp. (Kuznetsov, 1992b, Fig. 9). Tramlap.

Antiphrastis galenopa Meyrick, 1931. Choganh (Meyrick, 1931). – This species is known only from the original description based on the type material from Vietnam.

Tribe Phricanthini

Phricanthes flexilineana (Walker, 1863) (= *macroua* Lower, 1908). (Common, 1965, Figs 7c, 7d; Kuznetsov & Stekolnikov, 1994, Figs 1-4). Choganh (Meyrick, 1931); Tramlap, 30.XI-11.XII.1988. – India, Philippines, Indonesia, Australia, Guiana. Larvae on leaves of *Dillenia indica* (Common, 1965).

Subfamily CHLIDANOTINAE

Tribe Hilarographini

Mictocommissis nigromaculata (Issiki, 1930) (= *takaonis* Matsumura, 1931). (Kuznetsov, 1992b, Fig. 2). Tramlap, 13.XII.1988. – Southern Asia to Japan in the north.

Tribe Polyorthini

Loparcha kopeci Razowski, 1992, Figs 1-2. Tamdao, 11-14.V.1990 (holotype). – *Note*. The original publication contained two spellings, *kopeki* (p. 108) and *kopeci* (p. 107, 111, 118). As the name is given after the collector M.J. Kopeč, the spelling *kopeci* is selected here as the correct original spelling.

Subfamily OLETHREUTINAE

Tribe Gatesclarkeani

Gatesclarkeana idia Diakonoff, 1973. (Kuznetsov, 1988b, Fig. 1). Naniu, 9-10.V.1986; Chienghouan, 13.V.1986. – Japan, China, Indonesia, Thailand. Polyphagous larvae on shoots, leaves and blossoms

of *Litchi chinensis*, *Thea*, *Ricinus*, *Aleuritis*, *Durio*, *Eugenia*, *Averrhoa*, *Perilla* (Diakonoff, 1973).

G. erotias (Meyrick, 1905). (Clarke, 1958, Pl. 252, Figs 4a, 4b). Vietnam (Meyrick, 1931). Possibly the material from Vietnam belonged to the preceding species. – Thailand, India, Sri Lanka, Indonesia. Polyphagous larvae on stems, shoots, and leaves of *Mangifera*, *Loranthus*, *Cynoglossum*, *Bauhinia*, *Guzonoma*, *Lantana*, *Sapindus* and other plants (Diakonoff, 1982).

Asymmetrarcha melallicana Kuznetsov, 1992a, Fig. 16. Tramlap, 30.XI.1988.

Tribe Endotheniini

Endothenia mollisana (Walker, 1863). (Kuznetsov, 1988b, Fig. 14). Tamdao, 10.IV.1986. – China.

Tribe Microcorsini

Allobrachygonia helota (Meyrick, 1905). (Kuznetsov, 1988b, Fig. 1.5). Hanoi, 3.IV.1986; 21.X (Meyrick, 1931); Tamdao, 9.IV.1986. – China, Japan, India, Sri Lanka.

Tribe Bactrini

Bactra helophaea Meyrick, 1928. (Kuznetsov, 1988b, Fig. 2.1). Naniu, 5-11.V.1986. – India. This species displays close relationship with the transpalearctic *B. lacteana* Car., 1916, and might be its junior synonym.

Chiloides tornastis (Meyrick, 1909). (= *gretae* Diakonoff, 1959). (Kuznetsov, 1988b, Fig. 2.2). Hanoi (Meyrick, 1931). – Africa, Southern Asia.

Ch. cerata (Meyrick, 1909). (Kuznetsov, 1988b, Fig. 2.3). Chapa (Diakonoff, 1948). – India, Sri Lanka, Indonesia, New Guinea, Fiji.

Ch. venosana truculenta (Meyrick, 1909) (= *scythropa* Meyrick, 1911; *geraropa* Meyrick, 1931). (Kuznetsov, 1988d, Fig. 1, ♀). Naniu, 4.V.1986; Chienghouan, 13.V.1986; Kannak, 9-11.XI.1988. – Southern Asia from China and southern Japan to Indonesia and Sri Lanka in the south; Australia, Pacific Islands to the Hawaii in the east. Larvae on stems of *Cyperus* (Diakonoff, 1967).

Bubonoxena ephippias (Meyrick, 1907). (Kuznetsov, 1988b, Fig. 2.4). Chocay, 20-30.IV, Tonkin (Meyrick, 1931). – Southern Africa, Southern Asia (Thailand, India, Sri Lanka, Philippines, Indonesia). Larvae on *Commelina bengalensis* (Kawabe, 1979). Common pest of bamboo (*Bambusa*) (Diakonoff, 1982). Borer of young stems.

B. aspersana Kuznetsov, 1988a, Fig. 4, ♀. Naniu, 5, 9.V.1986.

Tribe Olethreutini

Gnathmocerodes petrifraga (Diakonoff, 1968). (Diakonoff, 1973, Fig. 53). SE Vietnam, 15 km W of Phangrang, ex. 1., *Barringtonia acutangula* (Spitzer & Jaroš, 1985), 20.IV.1982, 1-7.XI.1984. – India, Bangladesh, Philippines. Larvae in rolled or folded leaves.

Thysanocrepis crossota (Meyrick, 1909). (Diakonoff, 1973, Fig. 63). Kannak, 11.XI.1988. – Thailand, Indonesia, Solomon Islands, New Guinea.

Dactyloglypha tonica (Meyrick, 1911). (Kuznetsov, 1988b, Fig. 3.1). Tamdao, 10-13.IV.1986. – Southern Asia: Japan, China, Thailand, Malay Peninsula, India, Sri Lanka, Indonesia. Larvae on leaves of *Elaeocarpus japonicus*, *E. sylvestris* (Kawabe, 1989).

D. pallens Diakonoff, 1973, Fig. 271. (Kuznetsov, 1997a, Fig. 2). Kannak, 16.XI.1988. – Indonesia.

Cephalophyes cyanura (Meyrick, 1909). (Clarke, 1958, Pl. 249, Fig. 3a). Tamdao, 13.IV.1986. – Japan, Malay Peninsula, India.

Semniotes bellana Kuznetsov, 1988a, Fig. 5.6. Tamdao, 11.IV.1986.

Statherotis discana (Felder & Rogenhofer, 1974). (Diakonoff, 1973, Fig. 354). Choganh, VIII (Meyrick, 1931); Tamdao, 11.IV.1986; Chienghouan, 13.V.1986. – China, Japan, Thailand, India, Malay Peninsula, Indonesia, Philippines, Solomon Islands. Larvae on rolled leaves of *Litchi chinensis* and *Nephelium lappaceum* (Diakonoff, 1973).

S. diakonoffi Kuznetsov, 1988b, Fig. 3.3. Tamdao, 9-11.IV.1986.

Dicephalarcha herbosa (Meyrick, 1909). (Kuznetsov, 1988b, Fig. 3.4). Naniu, 8.V.1986. – Thailand, India, Indonesia.

Asaphistis praeceps (Meyrick, 1909). (Clarke, 1958, Pl. 151, Fig. 1c). Hanoi, 31.X.1988. – China, Japan, Thailand, Northern India.

Hoplitendemis inauditana Kuznetsov, 1988b, Fig. 4.1. Tamdao, 10.IV.1986.

Statherotmantis laetana Kuznetsov, 1988b, Fig. 3.5. Tamdao, 10.IV.1986.

Phaecasiophora attica (Meyrick, 1907). (Kuznetsov, 1988b, Fig. 4.2). Tamdao, 13.IV.1986. – China, Myanmar, Thailand, India.

Ph. cornigera burmensis Diakonoff, 1959. (Kuznetsov & Stekolnikov, 1994, Figs 11-12). Tramlap, 30.XI-7.XII.1988. – Thailand, Myanmar, India.

Ph. maculosana Kuznetsov, 1997b, Fig. 4. Tramlap, 30.XI, 7.XII.1988.

Ph. finitimana Kuznetsov, 1997b, Fig. 5. Tramlap, 30.XI.1988.

Sycantha inodes (Meyrick, 1911) (= *conchifera* Meyrick, 1931). (Kuznetsov, 1988b, Fig. 4.3). Chienghouan, 13.V.1986; Tramlap, 26-30.XI.1988. – Thailand, India, Philippines, Indonesia, New Guinea, Pacific Islands (Solomon and Bismark Islands). Larvae on leaves of *Anonaceae* sp. (Diakonoff, 1973).

S. inopinata Diakonoff, 1973, Fig. 247. (Kuznetsov, 1997a, Fig. 1). Tramlap, 25.XI.1988. – Thailand, Indonesia.

S. obtundana Kuznetsov, 1988a, Fig. 1. Tamdao, 9.IV.1986.

Dudua tetanota (Meyrick, 1909). (Kuznetsov, 1988b, Fig. 6.1; Kuznetsov & Stekolnikov, 1991, Fig. 3). Tamdao, 9-13.IV.1986; Tramlap, 21-26.XI.1988. – Southern China, Thailand, India, Indonesia.

D. aprobola (Meyrick, 1886) (= *metallota* Lower, 1901). (Kuznetsov, 1988b, Fig. 6.2). Hanoi, 4.IV.1986; Tamdao, 9-13.IV.1986; Naniu, 8.V.1986; Chienghouan, 13.V.1986; Tramlap, 9.XII.1988. –

Seychelle Islands, Southern Asia to China and Japan in the north, Australia, Pacific Islands. Polyphagous larvae on leaves and blossoms of *Rosa*, *Salix tetrasperma*, *Mangifera indica*, *Lantana camara*, *Litchi chinensis*, *Cassia tora*, *Polyalthia longifolia* and other rainforest plants (Diakonoff, 1973), *Psidium*, *Metrosideros*, *Eugenia*, *Lagerstroemia*, *Bidens*, *Dahlia*, *Ficus* (Kawabe, 1989).

D. ptarmicopa (Meyrick, 1936). (Kuznetsov, 1997a, Fig. 3). Tramlap, 9.XII.1988. – Japan, China, Thailand. Larvae on leaves of *Glochidion obolatum* (Kawabe, 1989).

Lasiognatha mormopa (Meyrick, 1906). (Diakonoff, 1973, Fig. 634). Choganh (Meyrick, 1931). – Thailand, India, Sri Lanka, Philippines, Indonesia. Larvae on Myrtaceae: *Jambosa*, *Eugenia* (stems and galls).

L. cellifera (Meyrick, 1912) (= *codonectis* Meyrick, 1927). (Kuznetsov, 1988b, Fig. 6.5). Naniu, 5.V.1986; prov. Binhtrithien, Vinh, ex. l. 20.XI.1988; Kannak, 11.XI.1988. – India, Sri Lanka, Malay Peninsula, Philippines, Indonesia. Larvae on leaves, stems, and seeds of *Eugenia* and *Nephelium lappaceum* (Diakonoff, 1973).

Hedya iophaea (Meyrick, 1912). (Kuznetsov, 1988d, Fig. 2). Tamdao, 10-13.IV.1986; Naniu, 8.V.1986. – Japan, China, Thailand, India, Sri Lanka. Larvae on *Euria japonica* (Kawabe, 1989).

Loxoterma perexiguana Kuznetsov, 1988b, Fig. 6.5. Tamdao, 11.IV.1986.

Pelatea assidua (Meyrick, 1914). (Kuznetsov, 1988b, Fig. 6.6). Hanoi (Meyrick, 1931). – China.

Stathignatha novitana Kuznetsov, 1992a, Fig. 15. Tramlap, 27.XI.1988. – The position of the genus in the classification of the family remains problematic.

Arcesis threnodes (Meyrick, 1905) (= *hemiopota* Meyrick, 1905; *tetracona* Meyrick, 1907). (Kuznetsov, 1988b, Fig. 4.4; Kuznetsov & Stekolnikov, 1991, Fig. 4). Hanoi, 2-3.IV.1986; Tamdao, 9-13.IV.1986. – Japan, Thailand, India, Sri Lanka.

Neopotamia armatana Kuznetsov, 1988a, Fig. 2.3. Hanoi, 1.IV.1986; Tamdao, 10-11.IV.1986.

Phaeacodophora fimbriata Walsingham, 1900 (= *metactenis* Meyrick, 1909; *eucrossa* Meyrick, 1914; *aeolotechna* Meyrick, 1935; *peucostenis* Diakonoff, 1953). (Clarke, 1958, Pl. 251, Figs 3a, 3b, Pl. 254, Figs 3a, 3b; Diakonoff, 1973, Figs 471-478, ♀). Tramlap, 25.XI.1988. – China, Japan, Thailand, India, Indonesia, New Guinea. Larvae on leaves of *Quercus glauca* (Kawabe, 1989), but probably polyphagous.

Temnolopha mosaica Lower, 1901 (= *clydonias* Meyrick, 1907). (Kuznetsov, 1988b, Fig. 5.1). Vietnam (Razowski, 1992). – Japan, Thailand, Cambodia, Philippines, Indonesia, Sri Lanka, Australia. Larvae in leaves of ? *Alpinium* (Zingiberaceae) (Diakonoff, 1973).

T. abstrusana Kuznetsov, 1988b, Fig. 5.2. Hanoi, 2.IV.1986; Tamdao, 14.IV.1986.

Eudemopsis brevis Liu & Bai, 1982, Sinozoologia, 2, Pl. 2, Fig. 13. Tramlap, 1-11.XII.1988 (Kuznetsov & Stekolnikov, 1994). – China, Thailand.

Sorolopha archimedis (Meyrick, 1912). (Kuznetsov, 1988b, Fig. 7.1). Tamdao, 13.IV.1986; Naniu, 4, 11.V.1986; Kannak, 14-15.XI.1988. –

China, Thailand, India, Sri Lanka, Philippines, Indonesia. Larvae on *Litsea*, *Cinnamomum*, *Eugenia* (interlaced leaves) (Diakonoff, 1973).

S. saitoi Kawabe, 1989. (Kuznetsov, 1997a, Fig. 1). Tramlap, 1.XII.1988. – Thailand.

S. prasinias (Meyrick, 1916). (Clarke, 1958, Pl. 269, Figs 2a, 2b). Choganh (Meyrick, 1931). – Sri Lanka.

S. callichlora (Meyrick, 1909). (Kuznetsov, 1988b, Fig. 7.3). Naniu, 10.V.1986. – India.

S. herbifera (Meyrick, 1909). (Kuznetsov, 1988b, Fig. 7.4). Tamdao, 9-13.IV.1986. – Thailand, India, Indonesia. Larvae on *Cinnamomum camphora* (interlaced leaves) (Diakonoff, 1973).

S. plinthograpt (Meyrick, 1931). (Kuznetsov, 1997a, Fig. 6). Kannak, 15.XI.1988. – Japan, Southern China, Thailand, Indonesia. Larvae on leaves of *Machilis thunbergii*, *Cinnamomum japonicum*, *C. camphora* (Kawabe, 1979).

S. semiculta (Meyrick, 1909) (= *heteraspis* Meyrick, 1936). (Kuznetsov, 1988b, Fig. 8.1). Choganh (Meyrick, 1931). – China, Thailand, India, Sri Lanka, Solomon Islands. Larvae on *Alceodaphne semicarpifolia*, *Persea americana* (interlaced leaves) (Diakonoff, 1973).

S. sphaerocopa (Meyrick, 1931). (Kuznetsov, 1988b, Fig. 6.2). Tamdao, 9-11.IV.1986, Choganh (Meyrick, 1931). – Japan, China, India, Indonesia. Larvae on leaves of ? *Cinnamomum* sp. (Diakonoff, 1973).

S. ghilarovi Kuznetsov, 1988b, Fig. 9.1. (Kuznetsov & Stekolnikov, 1991, Fig. 4). Hanoi, 3.IV.1986; Tamdao, 10-13.IV.1986.

Theorica secunda Kuznetsov, 1997b, Fig. 6. Kannak, 11.XI.1988.

Didrimys philocompsa (Meyrick, 1921). (Diakonoff, 1973, Fig. 572). Kannak, 12.XI.1988. – Thailand, Indonesia.

Lobesia aeolopa Meyrick, 1907 (= *proterandra* Meyrick, 1921). (Kuznetsov, 1988b, Fig. 9.3). Hanoi, Choganh (Meyrick, 1931); Tamdao, 10-13.IV.1986; Thainguyen, 24.IV.1986; Naniu, 8-10.V.1986; Chienghouan, 13.V.1986. – Southern and Eastern Asia from Japan to Indonesia and Sri Lanka in the south. Polyphagous larvae on leaves, buds, flowers and shoots of *Citrus*, *Ricinus*, *Melochia*, *Phuhea* (Diakonoff, 1982).

Tribe Enarmoniini

Rhopaltriplasia insignata Kuznetsov, 1997b, Fig. 1. Tramlap, 21.XI-14.XII.1986.

Loboschiza koenigana (Fabricius, 1775) (= *aurantiana* Pryer, 1877; *aurana* Matsumura, 1931). (Kuznetsov, 1988d, Fig. 3; Kuznetsov & Stekolnikov, 1991, Fig. 6). Choganh (Meyrick, 1931); Tamdao, 14.IV.1986; Naniu, 12.V.1986; Chienghouan, 13.V.1986; Tramlap, 13.XI.1988. – South-Eastern Asia from China and Japan to Sri Lanka and Indonesia in the south; Australia. Larvae on rolled leaves of *Melia azedarach* and *Jasminum sambac* (Diakonoff, 1982).

Tetramoera schistaceana (Snellen, 1890). (Kuznetsov, 1988d, Fig. 4). Northern Vietnam: Hatay,

Namha, Nghean (Anonym, 1976). – Madagascar, Mauritius, Reunion, China (to Shandong Peninsula in the north), Malay Peninsula, India, Philippines, Indonesia, Pacific Islands, Hawaii. Larvae on *Saccharum officinarum*, *S. dulce*. Notorious pest, a borer of the young shoots of sugar cane plants (Diakonoff, 1968).

T. flavescens Kuznetsov, 1988a, Fig. 7. Naniu, 4-12.V.1986; Chienghouan, 13.V.1986.

Helictophanes dryocoma (Meyrick, 1916). (Kuznetsov, 1997a, Fig. 4). Tramlap, 1.XII.1988. – India.

Semnostola arquatana Kuznetsov, 1988a, Fig. 9. Tamdao, 10-13.IV.1986 (♂, Fig. 2).

S. atrana Kuznetsov, 1988a, Fig. 11, ♀. Tamdao, 10.IV.1986.

Eucosmomorpha figurana Kuznetsov, 1997b, Fig. 9. Tramlap, 28.XI.1988.

Cimeliomorpha nabokovi Kuznetsov, 1997b, Fig. 7. Tramlap, 24.XI-1.XII.1988.

Semutophila saccharopa Tuck, 1986. (Kuznetsov, 1997a, Fig. 7). Naniu, 8.VI.1986. – Malaysia. Larvae in the sheaths of leaves on young shoots of *Gigantochloa scortechii*. Symbiont of ants.

Ancylis hylaea Meyrick, 1912. (Clarke, 1958, Pl. 145, Fig. 1a; Kuznetsov, 1988d, Fig. 5). Northern Vietnam, Hatay (Anonym, 1976). – India, Thailand.

A. aromatiata Meyrick, 1912 (= *cyanostoma* Meyrick, 1916). (Clarke, 1958, Pl. 143, Fig. 3a; Kuznetsov, 1988d, Fig. 7). Choganh (Meyrick, 1931). – Thailand, India. Larvae on leaves of *Zizyphus jujuba*.

A. lutescens Meyrick, 1912. (Clarke, 1958, Pl. 145, Fig. 2a; Kuznetsov, 1988d, Fig. 8). Hanoi (Meyrick, 1931). – India.

A. ancorata Meyrick, 1912. (Clarke, 1958, Pl. 143, Figs 1a, 1b; Kuznetsov, 1988d, Fig. 9). Choganh (Meyrick, 1931). – Sri Lanka.

A. rostrifera Meyrick, 1912. (Clarke, 1958, Pl. 146, Fig. 2a). Kannak, 12.XI.1988; Tramlap, 25.XI.1988; Namcattien, XI.1989 (Jaroš & Spitzer, 1991). – Sri Lanka, Indonesia.

Tribe Eucosmini

Rhopobota antecellana Kuznetsov, 1988a, Fig. 16. Tamdao, 10-13.IV.1986; Tramlap, 16-27.XI.1988.

R. punctiferana Kuznetsov, 1988a, Fig. 18. Tamdao, 10.IV.1986.

R. ancyloides Kuznetsov, 1988a, Fig. 19. Tamdao, 9-10.IV.1986.

R. blanditana (Kuznetsov, 1988a) (= *nielsenii* Kawabe, 1989, syn. n.). (Kuznetsov, 1988a, Fig. 12; Kawabe, 1989, Fig. 118). Tamdao, 11-13.IV.1986. – Thailand. The new synonymy has been established by comparison of the holotype of *Griselda blanditana* Kuzn. with description and figure of the genitalia of the holotype of *G. nielsenii* Kaw.

Metacosma miratorana Kuznetsov, 1988a, Fig. 21. Tamdao, 8.IV.1986; Tramlap, 26.XI.1988.

Noduliferola niphada (Diakonoff, 1984). (Kuznetsov, 1997a, Fig. 9). Chienghouan, 13.V.1986; Tramlap, 12.XII.1988. – Indonesia.

N. insuentana Kuznetsov, 1997b, Fig. 16. Tramlap, 25-27.XI.1988.

Gypsonoma infuscana Kuznetsov, 1988a, Fig. 14, ♀. Naniu, 10.V.1986.

Assulella litigiosa (Meyrick, 1912) (Kuznetsov, 1988d, Fig. 15). Tamdao, 14.IV.1986. – Thailand, India.

A. archaea Diakonoff, 1983a, Fig. 14. (Kuznetsov, 1997a, Fig. 10). Tramlap, 3.XII.1988. – Thailand, Indonesia.

Spilonota albitegulana Kuznetsov, 1997b, Fig. 14. Tramlap, 3.XII.1988.

Dicnecidia fumidana Kuznetsov, 1997b, Fig. 15. Kannak, 11.XI.1988.

Acroclita cheradota (Meyrick, 1912). (Clarke, 1958, Pl. 133, Fig. 4a; Kuznetsov, 1988d, Fig. 29). Choganh (Meyrick, 1931); Kannak, 14.XI.1988. – India, Sri Lanka, Bangladesh. Larvae in rolled leaves of *Ficus religiosa*. Probably, this species was erroneously placed in *Acroclita* Ld.

A. nigrovenana Kuznetsov, 1988d, Fig. 27. Tamdao, 10-13.IV.1986. – Known only from Southern Japan and Vietnam. Larvae in rolled leaves of *Litchi chinensis* (Nasu, 1993).

A. corinthia Meyrick, 1912. (Clarke, 1958, Pl. 134, Fig. 4a). Choganh (Meyrick, 1931). – Thailand, Sri Lanka.

A. convergens Meyrick, 1931: 715. Choganh (Meyrick, 1931). – The species is known only from the original description based on one specimen (holotype) from Vietnam.

Eucoenogenes cyanopsis (Meyrick, 1912). (Kuznetsov, 1988d, Fig. 19). Tamdao, 10-13.IV.1986. – Japan, India, Indonesia.

E. levatana Kuznetsov, 1997a, Fig. 11. Tramlap, 24.XI.1988.

E. segregana Kuznetsov, 1997b, Fig. 10. Tramlap, 24.XI, 8.XII.1988.

Strepsicrates routhia (Meyrick, 1910). (Kuznetsov, 1997b, Fig. 14). Tramlap, 12.XII.1988. – Mauritius, Japan, Thailand, India, Sri Lanka. Larvae on *Psidium guayva*, *Eugenia jambolana* (Kawabe, 1989).

Peridaedala tonkinana Kuznetsov, 1988d, Fig. 13. Tamdao, 8-11.IV.1986; Tramlap, 27.XI, 5.XII.1988.

P. biuncana Kuznetsov, 1997b, Fig. 12. Tramlap, 3.XII.1988. – Thailand, Indonesia.

Bipartivalva aquilana Kuznetsov, 1988d, Fig. 16. Naniu, 9.V.1986.

Fibuloides modificana Kuznetsov, 1997b, Fig. 17. Tramlap, 26-27.XI.1988.

Epinotia bicolor (Walsingham, 1900). (Kuznetsov, 1988d, Fig. 18). Naniu, 2.V.1986; Chienghouan, 13.IV.1988. – Russia (Primorsk Terr.), China, Korea, Japan, Thailand, Northern India. Larvae on *Quercus glauca*, *Q. phillyraeoides*, *Q. acutissima* (Kawabe, 1989).

Megaherpystis melanoneura (Meyrick, 1912). (Kuznetsov, 1988d, Fig. 18). Choganh (Meyrick, 1931); Hanoi, 2.IV.1986. – China, Japan, Thailand, India.

Neohermenias apertana Kuznetsov, 1988a, Fig. 13. Naniu, 9.V.1986.

Hermenias pachnitis (Meyrick, 1912). (Clarke, 1958, Pl. 211, Fig. 2a; Kuznetsov, 1997a, Fig. 12). Tramlap, 26.XI-3.XII.1988. – Indonesia, Sri Lanka.

H. melanocopa (Meyrick, 1922). (Clarke, 1958, Pl. 293, Fig. 1a; Kuznetsov, 1997a, Fig. 13). Tramlap, 26.XI-11.XII.1988. – Thailand, India, Sri Lanka.

Herpystis mica Kuznetsov, 1988a, Fig. 22. Tamdao, 11.IV.1986; Tramlap, 22.XI.1988.

H. assimulantana Kuznetsov, 1997a, Fig. 16. Tramlap, 22.XI.1988.

Lepteucosma fuscicaput (Diakonoff, 1948). (Kuznetsov, 1988d, Fig. 21). Chapa (Diakonoff, 1948); Tamdao, 9-11.IV.1986. – Known only from Vietnam.

L. siamensis (Kawabe, 1989). (Kuznetsov, 1997b, Fig. 15). Tramlap, 30.XI-5.XII.1988. – Thailand.

L. oxychrysa Diakonoff, 1971. (Kuznetsov, 1988d, Fig. 22). Tamdao, 8-13.IV.1986; Naniu, 10.V.1986; Chienghouan, 13.V.1986; Tramlap, 24.XI-7.XII.1988. – India, Pakistan.

L. blanda (Kawabe, 1989). (Kawabe, 1989, Fig. 121). Tramlap, 24.XI-7.XII.1988.

L. oxychrysoides Kuznetsov, 1997b, Fig. 11. Tramlap, 24-30.XI.1988.

L. ceriodes (Meyrick, 1909). (Clarke, 1958, Pl. 175, Fig. 2a; Kuznetsov, 1988d, Fig. 24). Choganh (Meyrick, 1931). Probably the specimens from Vietnam were erroneously identified as this species. – China, India. Larvae in Vietnam on ? *Rubus* (sur une ronce) (Meyrick, 1931).

Eucosma cremnitis Meyrick, 1912. (Clarke, 1958, Pl. 177, Fig. 4a; Kuznetsov, 1988d, Fig. 25). Choganh (Meyrick, 1931). – Sri Lanka.

E. pedisignata Diakonoff, 1948. (Kuznetsov, 1988d, Fig. 26). Shapa (Diakonoff, 1948). – This species is known only from the original description based on the type specimens from Vietnam.

E. doiinthanonensis Kawabe, 1989, Fig. 123. Kannak, 13-15.XI.1988. – Thailand.

E. australis Kuznetsov, 1988a, Fig. 15, ♀. Naniu, 9.V.1986.

E. calligrapha (Meyrick, 1912). (Clarke, 1958, Pl. 174, Fig. 2a). Choganh (Meyrick, 1931). – India, Myanmar. This species was erroneously placed by Meyrick (1931) in the genus *Eucosma*.

Tribe Grapholitini

Ricula dubitana Kuznetsov, 1992a, Fig. 13. Tamdao, 13.IV.1986.

Cryptophlebia ombrodelta Lower, 1899 (= *carpophaga* Walsingham, 1899; *lasiandra* Meyrick, 1909; *illepida* auct.). (Kuznetsov, 1988d, Fig. 11; Kuznetsov & Stekolnikov, 1991, Fig. 7). Choganh, Phutho, Hanoi (Meyrick, 1931), 1-5.IV.1986; Tamdao, 25.III.1990 (Sugonjaev leg.), 10.IV.1986; Naniu, 5-12.V.1986; Chienghouan, 13.IV.1986; Kannak, 9-14.XI.1988; Tramlap, 25.IV.1988. – Southern Japan, China, Thailand, Philippines, India, Sri Lanka, Australia, Guam, Hawaii. Polyphagous larvae on leaves, young shoots, blossoms, pods, fruits (Diakonoff, 1957; Kuznetsov, 1988d) of Caesalpiniaceae (*Parkinsonia*, *Caesalpinia*, *Bauhinia*, *Cassia*), Fabaceae (*Sesbania*, *Tamarindus*, *Phaseolus*, *Poinciana*), Mimosaceae (*Acacia*, *Adenanthera*, *Pithecolobium*, *Prosopis*), Rutaceae (*Citrus*, *Aegle*, *Teronia*), Sapindaceae (*Indigofera*, *Nephelium*, *Litchi*), Euphorbiaceae (*Euphorbia*), and Proteaceae (*Macadamia*), also on *Cocos nucifera*.

C. repletana (Walker, 1863) (= *trichosema* Meyrick, 1904; *tetraploca* Meyrick, 1928).

(Kuznetsov, 1994, Figs 1-2; Kuznetsov & Stekolnikov, 1994, Figs 13-14). Kannak, 8-15.XI.1988; Tramlap, 23.XI-16.XII.1988; Namcattien, XI.1989 (Jaroš & Spitzer, 1991). – Southern Japan, China, Thailand, India, Philippines, Indonesia, New Guinea, Fiji.

C. encarpa (Meyrick, 1920). (Kuznetsov, 1988d, Fig. 10). Choganh (Meyrick, 1931). – Philippines, India, Indonesia. Polyphagous larvae on *Citrus tangerina*, *Litchi chinensis*, *Zizyphus jujuba* (fruits, pods, rolled leaves).

C. hemitoma Diakonoff, 1976. (Kuznetsov, 1988d, Fig. 12). Hanoi, 3.IV.1986; Tamdao, 13.IV.1986; Naniu, 10.V.1986; Chienghouan, 13.V.1986. – Japan, Nepal.

Matsumuraeses felix Diakonoff, 1972. (Kuznetsov, 1988d, Fig. 4). Chienghouan, 13.V.1986. – Indonesia. Larvae on leaves of *Litsea* (Diakonoff, 1972).

M. falcana (Walsingham, 1900). (Kuznetsov, 1994, Fig. 5). Tamdao, 11-13.IV.1986. – China, Japan, Nepal. Larvae on *Glycine*, *Lupinus*, *Trifolium*, *Robinia* (rolled leaves, pods).

M. metacritica (Meyrick, 1935). (Diakonoff, 1972, Fig. 4). Tamdao, 11-13.IV.1986. – China, Nepal.

Grapholita bicincta Diakonoff, 1976. (Kuznetsov, 1994, Fig. 7). Hanoi, 1-5.IV.1986; Tamdao, 8-11.IV.1986; Naniu, 8-9.V.1986; Kannak, 13.IX.1988; Tramlap, 24.IX.1988. – Nepal.

G. orbiapex Kuznetsov, 1988d, Fig. 31. Tamdao, 10-11.IV.1986.

G. omittana Kuznetsov, 1988d, Fig. 32. Tamdao, 11-13.IV.1986.

G. arcuatana Kuznetsov, 1992a, Fig. 4. Naniu, 8-10.V.1986; Chienghouan, 13.V.1986.

G. opulentica Kuznetsov, 1992a, Fig. 1. Hanoi, 3.IV.1986; Tamdao, 9-11.IV.1986.

G. seclusana (Walker, 1866) (= *magnana* Kuznetsov, 1988). (Kuznetsov, 1988d, Fig. 33). Tamdao, 10-11.IV.1986. – Indonesia, New Guinea.

G. valens Kuznetsov, 1988d, Fig. 34. Tamdao, 11.IV.1986.

G. prolopha (Meyrick, 1912) (Kuznetsov, 1992a, Fig. 9). Hanoi, 2-4.IV.1986; Tamdao, 9-13.IV.1986. – India.

G. comanticosta Kuznetsov, 1992a, Fig. 35. Tamdao, 9-14.IV.1986; Hanoi, 2-3.IV.1986.

Acanthoclitia balanoptycha (Meyrick, 1910) (= *Eucosma hilarocrossa* Meyrick, 1931, *syn. n.*). (Kuznetsov, 1988d, Fig. 30). Choganh (Meyrick, 1931); Tamdao, 10-13.IV.1986. – India, Sri Lanka, Indonesia, Pacific Islands. Larvae on *Pongamia glabra*, *Derris elliptica* (Diakonoff, 1982). The male genitalia of the holotype of *Eucosma hilarocrossa* Meyr. from Choganh were examined by Razowski (1960, Fig. 6). This holotype is very similar in genital characters to *A. balanoptycha* Meyr. (Diakonoff, 1982, Pl. 7, Fig. 13).

Parapammene longipalpana Kuznetsov, 1992a, Fig. 6. Tamdao, 11.IV.1986.

Pammene refraga Meyrick, 1931. (Razowski, 1960, Fig. 18, ♀). Choganh (Meyrick, 1931). – This species is known only from the original description and holotype. Its systematic status remains problematic.

Strophedra quercivora (Meyrick, 1920). (Kuznetsov, 1994, Fig. 11). Tamdao, 9.IV.1986. –

Russia (Kunashir Isl.), Northern India. Larvae on *Quercus griffithi*, possibly also on other species of *Quercus*.

Selania asquiescens Diakonoff, 1976. (Kuznetsov, 1994, Fig. 12). Naniu, 2-12.V.1986; Chienghouan, 13.IV.1986. – Nepal.

Coniostola stereoma (Meyrick, 1912). Tramlap, 12.XI-6.XII.1988. – Thailand.

Leguminivora glycinivorella (Matsumura, 1900). (Kuznetsov, 1994, Fig. 14). Southern Vietnam, Hungloc. – Eastern Asia from Amur Prov., Primorsk Terr. and Japan to Northern India in the south. Larvae on pods of *Glycine* and *Lespedeza* (Kuznetsov, 1994).

Metriophlebia meridiana Kuznetsov, 1992a, Fig. 8. Kannak, 11-16.XI.1988.

Fulcrifera futurana Kuznetsov, 1992a, Fig. 10. Chienghouan, 13.V.1986.

F. tricentra (Meyrick, 1907) (= *pseudonectis* Meyrick, 1907; *crocopa* Meyrick, 1907). (Clarke, 1958, Pl. 229, Figs 1a, 2a, 3a; Kuznetsov, 1994, Fig. 14). Hoangshufi (Meyrick, 1931); Chienghouan, 13.V.1986; Kannak, 10-16.XI.1988. – Afghanistan, China, India, Sri Lanka, Indonesia. Larvae in shoots, stems and galls on *Crotalaria juncea*, *Phaseolus mungo*, *Dolichos lablab*, *Tephrosia purpurea* (Diakonoff, 1982).

Cydia pycnochra Meyrick, 1920. (Kuznetsov, 1994, Figs 16-17, ♀). Chienghouan, 13.V.1986; Kannak, 11.XI.1988. – India.

C. obumbrana Kuznetsov, 1992a, Fig. 11. Naniu, 10.V.1986.

C. tropicana Kuznetsov, 1992a, Fig. 12, ♀. Tamdao, 12.IV.1986.

A new species of the genus *Penthostola* Diakonoff

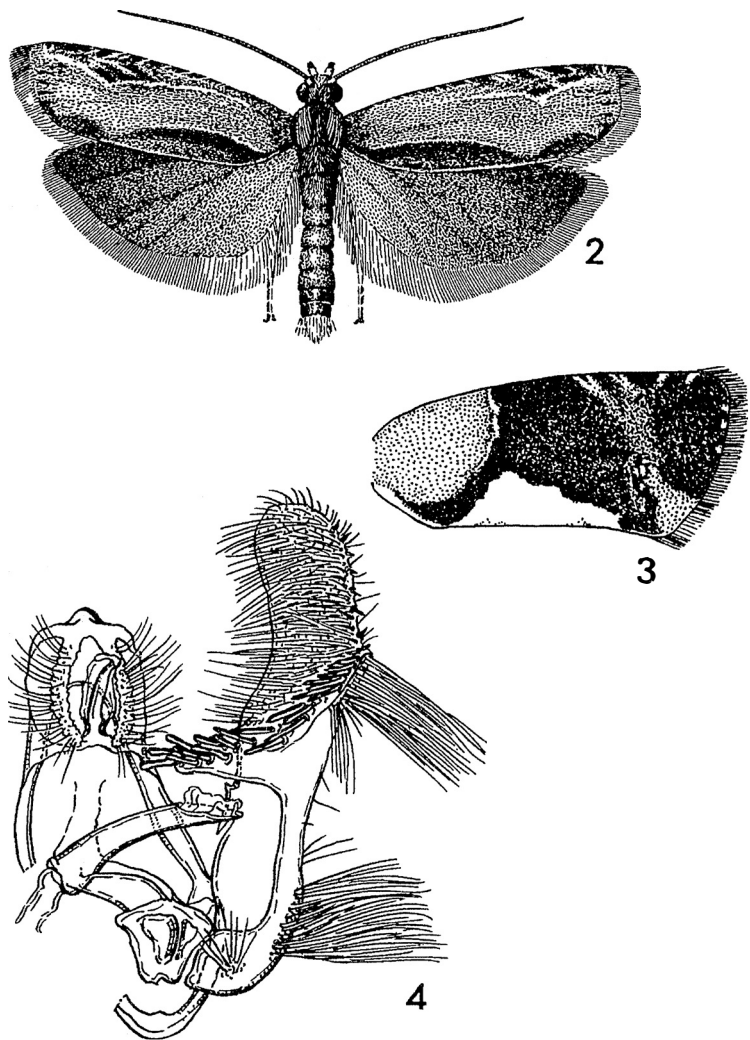
The genus *Penthostola* belonging to the tribe Olethreutini was erected (Diakonoff, 1978) for 2 species: *Argyroplote hemeronyx* (Diakonoff, 1953) from New Guinea (type species) and *P. semna* Diakonoff, 1978 from West Java (Indonesia). The third species of this genus was found by me in 1988 on the Plato Thainguen, 600-900 m, in Southern Vietnam.

The terminology of morphological characters is used here according to Kuznetsov, 1978. The holotype is kept in the Zoological Institute, St.Petersburg.

Penthostola tricolorana sp. n. (Figs 3-4).

Holotype. ♂, Southern Vietnam, prov. Gialai, Kannak, 600 m, at light, 11.XI.1988 (V.I. Kuznetsov leg.).

Description. Wingspan 14.5 mm. Forewing (Fig. 3) oblong, rather narrow, not excised below apex. Costal edge slightly rounded. Termen scarcely convex. Forewing ground



Figs 2-4. 2, *Semnostola arguatana* Kuzn. (paratype), habitus of moth; 3, *Penthostola tricolorana* sp. n. (holotype); 4, male genitalia.

colour black; markings white or yellow-ochreous mixed with brown. Subtriangular yellow-ochreous patch with base along basal 1/3 of costa, its rounded top not reaching the base of dorsal edge. External rounded edge of this patch bordered finely with white line. Dorsal subtrapezoidal blotch (2.5 × 1.5 mm) uniformly white, stretching along dorsal edge of wing. Upper edge of this blotch with 3-4 small saw-teeth. Top of blotch hardly reaching fold, the corner connected by fine white line along dorsal edge with root of wing. Before the middle of costal edge no costal marks. Along apical half of costal

margin of wing there are 4 short and small costal marks, of which 2 basal marks are double and greyish white and 2 apical marks are single, white and shorter. Torus with a small, triangular, yellow-ochreous spot. External margin with a series of 3 white points along base of cilia. Cilia black, ochreous opposite to tornal spot. Hindwing pale greyish-fuscous, without dorsal fold. Dorsum black anteriorly and whitish posteriorly; head fuscous grey; palpi small, grey.

Male genitalia (Fig. 4) symmetrical. Top of tegumen with triangular appendix (? rudiment of uncus). Gnathos without medial appendage, almost pointed. Socii long and narrow, freely suspended, covered with fine bristles. Valva with a single bunch of bristles beyond base of sacculus; rectangular projection at base of cucullus absent, but ventral margin of cucullus with a brush of dense bristles. Lobe on inner surface of valva on border of cucullus and sacculus very large, with a stripe of large blunt spines. Triangular lamel-

liform process present on tegumen near its articulation with vinculum. Aedeagus moderately long, curved and narrowed; cornuti absent. Caulis long.

Comparison. The new species is close to *P. semna*, but the forewing is without a spot at 3/4 of costa, cucullus without rectangular projection at base, socii somewhat broader, gnathos almost pointed.

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References

- Anonym. 1976. *Ket di u tra c n trung 1967-1968* (Results of entomological research in 1967-1968). 579 p. Vi n b o ve thuc v t (Plant Protection Institute of North Vietnam), Hanoi.
- Clarke, J.F.G. 1958. Tortricidae, Olethreutidae. In: *Catalogue of the Microlepidoptera in the British Museum (Natural History)*, described by Edward Meyrick, 3: 1-599. London.
- Common, I.F.B. 1965. A revision of the Australian Tortricini, Schoenotenini and Chlidanotini (Lepidoptera: Tortricidae: Tortricinae). *Austral. J. Zool.*, 13: 613-726.
- Diakonoff, A. 1939. The genera of Indo-Malayan and Papuan Tortricidae. *Zool. Meded.* (Leiden), 21: 111-240.
- Diakonoff, A. 1941. Tortricidae chiefly from the collection of the Institute for plant diseases at Buitenzorg (6th paper in Indo-Malayan and Papuan Tortricidae). *Treubia*, 18(2): 377-392.
- Diakonoff, A. 1948. Microlepidoptera from Indo-China and Japan. 2nd note. Material from Indo-China. *Bull. Mus. natl. Hist. nat.*, (2), 20(4): 343-348.
- Diakonoff, A. 1952. Wissenschaftliche Ergebnisse der Sumba-Expedition des Museums f r Volkerkunde und des Naturhistorischen Museums in Basel 1949. Microlepidoptera, part 1. *Verhand. naturf. Ges. Basel*, 63(1): 137-152.
- Diakonoff, A. 1957. Remarks on *Cryptophlebia* Walsingham and related genera (Lepidoptera, Tortricidae, Olethreutinae). *Tijdschr. Entomol.*, 100(2): 129-146.
- Diakonoff, A. 1960. Synopsis of the Schoenotenini with descriptions of new genera and species. *Nova Guinea*, 10(4): 43-81.
- Diakonoff, A. 1964. Further record and descriptions of the species of *Bactra* Stephens (Lepidoptera, Tortricidae). *Zool. Verhand.* (Leiden), 70: 1-81.
- Diakonoff, A. 1968. Microlepidoptera of the Philippine Islands. *Bull. U.S. natl. Mus. nat. Hist.*, 257 (1967): 1-484.
- Diakonoff, A. 1970. Notes on the Ceracini (Lepidoptera, Tortricidae). *Tijdschr. Entomol.*, 113(3): 91-103.
- Diakonoff, A. 1971. South Asiatic Tortricidae from the Zoological collection of the Bavarian State (Lepidoptera). *Ver ff. zool. Staatssaml. M nchen*, 15: 167-202.
- Diakonoff, A. 1972. Remarks on *Matsumuraes* Is-siki with descriptions of new species. *Tijdschr. Entomol.*, 115(6): 241-252.
- Diakonoff, A. 1973. The South Asiatic Olethreutini (Lepidoptera, Tortricidae). *Zool. Monogr. Rijksmus. nat. Hist.* (Leiden), 1: XXII + 700 p.
- Diakonoff, A. 1976. Tortricoida from Nepal, 2. *Zool. Verhand.* (Leiden), 144: 1-145.
- Diakonoff, A. 1977. Rearrangement of certain Glyphipterygidae sensu Meyrick, 1913, with descriptions of new taxa (Lepidoptera). *Zool. Verhand.* (Leiden), 158: 1-55.
- Diakonoff, A. 1978. Descriptions of a new genus and species of exotic Microlepidoptera (Tortricidae). *Zool. Meded.* (Leiden), 52(22): 261-266.
- Diakonoff, A. 1982. On a collection of some families of Microlepidoptera from Sri Lanka (Ceylon). *Zool. Verhand.* (Leiden), 193: 1-124.
- Diakonoff, A. 1983a. Tortricidae from Atjeh, Northern Sumatra (Lepidoptera). *Zool. Verhand.* (Leiden), 204: 1-132.
- Diakonoff, A. 1983b. Descriptions and records of exotic Tortricinae (Lepidoptera). *Proc. koninkl. Nederl. Akad. Wetensch.* (C), 84(4): 475-498.
- Diakonoff, A. 1984. Synopsis and descriptions of new species of the South Asiatic Cochyliinae (Lepidoptera: Tortricidae), with an appendix. *Zool. Meded.* (Leiden), 58(16): 261-293.
- Diakonoff, A. & Razowski, J. 1971. Description of a new genus of Tortricidae from Asia. *Entomol. Ber.*, 31(2): 36-40.
- Jaroř, J. & Spitzer, K. 1991. Notes on some tortricids (Tortricidae, Lepidoptera) collected in the Nam Cat Tien National Park. *Res. Rep. Nam Cat Tien Czechoslovak Vietnamese Exp. November 1989*: 20-21.  eske Budejovice.
- Kawabe, A. 1987a. Records and descriptions of the subtribe Sycacanthae (Lepidoptera, Tortricidae) from Thailand. *Microlepidoptera of Thailand*, 1: 61-68. Tokyo.
- Kawabe, A. 1987b. Records of seven species of the Cochyliinae (Lepidoptera: Tortricidae) from Thailand, with a new species. *Microlepidoptera of Thailand*, 1: 69-74. Tokyo.
- Kawabe, A. 1989. Records and descriptions of the subfamily Olethreutinae (Lepidoptera, Tortricidae) from Thailand. *Microlepidoptera of Thailand*, 2: 23-82. Tokyo.
- Kuznetsov, V.I. 1978. Fam. Tortricidae (Olethreutidae, Cochylidae) – tortricid-moths. In: *Oprede-litel' nasekomykh evropeiskoi chasti SSSR*, 4(1): 193-680. Leningrad. (In Russian. English translation: *Keys to the insects of the European part of the USSR*, 4(1): 279-956. 1987. New Delhi).
- Kuznetsov, V.I. 1988a. New species of Tortricid moths of the subfamily Olethreutinae (Lepidoptera, Tortricidae) of the fauna of North Vietnam. *Entomol. Obozr.*, 67(3): 615-631. (In Russian).
- Kuznetsov, V.I. 1988b. Review of the moths of supertribes Gatesclarkeanidii and Olethreutidii from the fauna of North Vietnam. *Trudy vsesoyuzn. entomol. Obshch.*, 70: 165-181. (In Russian).
- Kuznetsov, V.I. 1988c. The peculiaries of April-May collectings of moths and butterflies (Lepidoptera) in North Vietnam. *Trudy zool. Inst. Akad. Nauk SSSR*, 176: 3-13. (In Russian).
- Kuznetsov, V.I. 1988d. New and little-known leaf-rollers of the subfamily Olethreutinae (Lepidoptera, Tortricidae) of the fauna of North Vietnam. *Trudy zool. Inst. Akad. Nauk SSSR*, 176: 72-97. (In Russian).

- Kuznetsov, V.I.** 1992a. New species of tortricids (Lepidoptera, Tortricidae) of the fauna of Vietnam. *Entomol. Obozr.*, **71**(4): 847-902. (In Russian).
- Kuznetsov, V.I.** 1992b. Brief review of the moths of subfamily Tortricinae (Lepidoptera, Tortricidae) from the fauna of Vietnam. *Trudy zool. Inst. Ross. Akad. Nauk*, **245**: 108-124. (In Russian).
- Kuznetsov, V.I.** 1994. Brief review of the moths of tribus Grapholitini from the fauna of Vietnam. *Trudy zool. Inst. Ross. Akad. Nauk*, **247**: 128-144. (In Russian).
- Kuznetsov, V.I.** 1997a. Little known and new species of tortricid moths (Lepidoptera, Tortricidae) of the fauna of Vietnam. *Entomol. Obozr.*, **76**(1): 186-202. (In Russian).
- Kuznetsov, V.I.** 1997b. New species of tortricid moths of the subfamily Olethreutinae (Lepidoptera, Tortricidae) from the south of Vietnam. *Entomol. Obozr.*, **76**(4): 797-812. (In Russian).
- Kuznetsov, V.I. & Stekolnikov, A.A.** 1991. The systematic position of some leaf-rollers (Lepidoptera, Tortricidae) from the fauna of Vietnam with regard of comparative and functional morphology of the male genitalia. *Trudy zool. Inst. Ross. Akad. Nauk*, **240**: 61-76. (In Russian).
- Kuznetsov, V.I. & Stekolnikov, A.A.** 1994. Position of the tropical tribe Phricanthini and some other tropical tortricids in the system of the family Tortricidae (Lepidoptera) based on the study of the functional morphology of male genitalia. *Entomol. Obozr.*, **73**(3): 700-715. (In Russian).
- Meyrick, E.** 1931. Tortricidae. In: Joannis, J. Lépidoptères hétérocères du Tonkin. *Ann. Soc. entomol. France*, **98** (1928): 709-721.
- Nasu, Y.** 1993. New record of *Acroclita nigrovenana* (Lepidoptera, Tortricidae) from Japan. *Japan. J. Entomol.*, **62**(2): 216.
- Razowski, J.** 1960. The genitalia of some Asiatic Tortricidae (Lepidoptera) described by E. Meyrick. *Polsk. Pismo entomol.*, **30**(20): 381-396.
- Razowski, J.** 1968. Revision of the genus *Eupoecila* Stephens (Lepidoptera, Cochyliidae). *Acta zool. Cracov.*, **13**(5): 103-130.
- Razowski, J.** 1970. Cochylini. *Microlepidoptera Palaearctica*, **3**: XIV+528 p. Karlsruhe.
- Razowski, J.** 1977. Monograph of the genus *Archips* Hübner (Lepidoptera, Tortricidae). *Acta zool. Cracov.*, **22**(5): 55-205.
- Razowski, J.** 1987. The genera of Tortricidae (Lepidoptera). Pt. 1. Palaearctic Chlidanotinae and Tortricinae. *Acta zool. Cracov.*, **30**(11): 141-355.
- Razowski, J.** 1989a. Some Tortricinae (Lepidoptera, Tortricidae) from Vietnam. *Bull. Polish Acad. Sci., Biol. Sci.*, **37**(10): 299-305.
- Razowski, J.** 1989b. The genera of Tortricidae (Lepidoptera). Pt. 2. Palaearctic Olethreutinae. *Acta zool. Cracov.*, **32**(7): 107-328.
- Razowski, J.** 1992. Tortricidae (Lepidoptera) from Vietnam. Contribution 1. *SHILAP Revista lepidopt.*, **20**(78): 107-119.
- Spitzer, K. & Jaroš, J.** 1985. Notes on *Gnathomcerodes petrifraga* Diakonoff, 1967 (Lepidoptera: Tortricidae) associated with *Barringtonia* trees. *J. Research Lepidopt.*, **24**(2): 187-190.
- Tuck, K.R.** 1990. A taxonomic revision of the Malaysian and Indonesian species of *Archips* Hübner (Lepidoptera, Tortricidae). *Entomol. scand.*, **21**: 179-196.

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