

**A REVIEW OF THE TRIBE Archipini (LEPIDOPTERA: TORTRICIDAE)
FROM NORTHERN PART OF VIETNAM WITH THE KEY TO GENERA**

LE XUAN VI

*Plant Protection Research Institute,
Vietnam Academy of Agricultural Sciences*

The Tribe Archipini comprises over 500 species of 150 genera occurring mainly in the Holarctic, Afro-tropical and Oriental regions and scarcely represented in the Neotropical. Some genera widely distributed (Razowski, 2003). Wingspan of adult is about 10-25mm in average. Forewings broad, costa often convex, with or without costal fold in males; occasionally refractive markings present in yellowish, reddish, and rusty brown tones on the forewing. Venation, chorda rarely present; M-stem ill-defined or absent. *Male genitalia*. Tegumen usually large; uncus species-specific, with subterminal brush. Socius usually membranous, drooping hairy. Gnathos arm and terminal plate well developed. Vinculum fully developed, usually with lateral folds. Valva more or less elongate; costa variable developed, well sclerotized more or less long, or atrophied; sacculus simple to variably armed, often with free end; caudal area of valva membranous, often with outer pocket resembling brachioila, or strongly elongate. Aedeagus small to moderate; coecum penis well developed, rarely strongly reduced; caulis distinct, often large; cornuti, a few fixed capitate and/or a bunch deciduous spines. *Female genitalia*. Sterigma moderate, with more or less distinct anteostial part, often forming a proximal cup; postial plate often elongate, or slender extending laterally to connect apophyses anteriors. Bursa copulatrix with well differentiated ductus bursae. Signum in dagger (plate) shape, often with capitulum, or reduced.

I. MATERIAL AND METHODS

The types and other specimens examined were collected by using light traps in five national parks in the northern part of Vietnam (Fig. 1) from 2004 to 2010 and now being deposited in the insect collection of Plant Protection Research Institute (PPRI), Hanoi, Vietnam and Division of Life Sciences, Incheon National University, Korea. Study based on characteristics of wing venation and genitalia which were prepared by following the method of Robinson (1976). Specimens were examined with an Olympus SZH10 stereo-microscope. Photographs of adults were taken with Canon EOS 50D camera and the genitalia with a Carl Zeiss SV-8 microscope.

Abbreviations used in this paper are as follows: PPRI = Plant Protection Research Institute; TL = Type locality; TS = Type species.

II. RESULTS AND DISCUSSION

Key to the genera of the tribe Archipini

- 1. All veins of forewing are separate.....2
 - Vein R5 and R4 of forewing stalked. Vein Rs and M1 of hindwing approximated at base5
- 2. Forewing with costal fold in male 3
 - Forewing without costal fold in male *Pandemis*
- 3. Uncus in form of a pair of strong prominence *Chiraps*
 - Uncus in formal shape4
- 4. Uncus well developed.....*Archips*
 - Uncus ill developed *Isotenes*

5. Forewing with costal fold6
 - Forewing without costal fold 10
 6. Sacculus well-developed 7
 - Sacculus weakly developed with a short brachiola *Adoxophyes*
 7. Valva very broad8
 - Valva narrow *Gnorismoneura*
 8. Uncus broad, constricted basally..... 9
 - Uncus slender dilated basally..... *Neocalyptis*
 9. Costa of valva completely atrophied, disc deeply concave medially *Isodemis*
 - Costa of valva present, indistinct, rounded*Homona*
 10. Tegumen very strong, well sclerotized, 11
 - Tegumen normal, ill sclerotized *Meridemis*
 11. Tegumen high, with median prominences apically, aedeagus without cornuti
 *Terthreutis*
 - Tegumen rather short without median prominences apically, aedeagus with well develop
 cornuti *Ulodemis*

***Pandemis* Hübner, [1825] 1816**

Pandemis Hübner, [1825] 1816. TS: *Pyralis corylana* Fabricius, 1794. *Pandemia*; Stephens, 1834 [misspelling of *Pandemis*].

Pandennis; Moffat, 1866 [misspelling of *Pandemis*]. *Parapandemis* Obraztsov, 1954. TS: *Lozotaenia chondrillana* Herrich-Schäffer, 1860.

1. *Pademis corylana* Fabricius, 1794

Phalaena [*Tortrix*] *avellana* Poda, 1761. TL: Greece. *Pyralis corylana* Fabricius, 1794. TL: Germany. [*Tortrix*] *textana* Hübner, [1796-1799]. TL: Europe. *Tortrix eurythrana* Fuchs, 1902. TL: Europe.

Specimens examined. 1♀, Tamdao, Vinhphuc, 15.VIII. 2005 (Y. S. Bae *et al.*); 3♂, 1♀, Cucphuong, Ninhbinh, 10. VIII. 2005 (Y. S. Bae *et al.*).

Distribution. Vietnam (new record), China, Korea, Japan and also Asia minor, W. Europe to Ural Mts, S. Siberia, Kazakhstan, Cisbaikalia.

***Chiraps* Diakonoff & Razowski, 1971**

Chiraps Diakonoff & Razowski, 1971. TS: *Cacoecia alloica* Diakonoff, 1948.

2. *Chiraps alloica* Diakonoff, 1948

Cacoecia alloica Diakonoff, 1948. TL: Indonesia (West Java).

Specimens examined. 4♂, 1♀, Tamdao, Vinhphuc, 6-9. VII. 2003 (Y. S. Bae *et al.*); 1♂, 1♀, Tamdao, Vinhphuc, 14. VIII. 2005 (Y. S. Bae *et al.*); 2♂, 1♀, Tamdao, Vinhphuc, 26-31. VII. 2006 (Y. S. Bae *et al.*).

Distribution. Vietnam, Thailand, Malaysia, Bhutan.

***Archips* Hübner, 1822**

Archips Hübner, 1822. TS: *Phalaena* (*Tortrix*) *piceana* Linnaeus, 1758. *Archiceps*; Weiss & Dickerson, 1921 [misspelling of *Archips*]. *Archippus* Freeman, 1958. TS: *Tortrix packardiana* Fernald, 1886. *Archyps*; Liu, 1987 [misspelling of *Archips*]. *Cacoecia* Hübner, [1825] 1816.

TS: *Phalaena (Tortrix) xylostean* Linnaeus, 1758. *Cacoesia*; Llewellyn-Jones, 1939 [misspelling of *Cacoecia*]. *Pararchips* Kuznetsov, 1970. TS: *Ariola pulchra* Butler, 1879. [subgenus of *Archips*].

3. *Archips machlopi* Meyrick, 1912

Cacoecia machlopi Meyrick, 1912. TL: India (Assam, Khasi Hills). *Cacoecia compacta* Meyrick, 1918. TL: India (Bengal, Pusa). *Cacoecia isocyrt* Meyrick, 1920. TL: India (Bengal, Pusa). *Cacoecia seminubila* Meyrick, 1930, in Joannis. TL: North Vietnam (Tonkin, Hoang Su Phi). *Cacoecia transcutata* Meyrick, 1935. TL: Indonesia (Java, Bogor, Buitenzorg).

Specimens examined. 3♂, Tamdao, Vinhphuc, 15. VIII. 2005 (Y. S. Bae *et al.*); 7♂, 2♀, Cucphuong, Ninhbinh, 12-13. VI. 2004 (Y. S. Bae *et al.*); 15♂, 4♀, Cucphuong, Ninhbinh, 30. IV - 2. V. 2005 (Y. S. Bae *et al.*); 6♂, 1♀, Bavi, Hanoi, 19.VII-5.VIII. 2010 (Y. S. Bae & X.V. Le); 4♂, Babe, Backan, 12.VI. 2004 (Wakabayashi M. *et al.*); 4♂, 3♀, Babe, Backan, 27. VII. 2006 (Y. S. Bae *et al.*); 2♂, 1♀, Babe, Backan, 21. V. 2007 (Y. S. Bae *et al.*); 6♂, Bachma, Thua Thien Hue, 18. VI. 2004 (Y. S. Bae *et al.*).

Distribution. Vietnam, Thailand, Myanmar, Malaysia, Indonesia (Java, Sumatra), China, Pakistan, Nepal, India.

4. *Archips subgyraleus* Razowski, 2009

Archips subgyraleus Razowski, 2009. TL: Vietnam (Kontum, Dacglei).

Specimens examined. 2♂, Tamdao, Vinhphuc, 6-9. VII. 2003 (Y. S. Bae *et al.*); 2♂, Cucphuong, Ninhbinh, 12-13. VI. 2004 (Y. S. Bae *et al.*); 5♂, Cucphuong, Ninhbinh, 30. IV - 2. V. 2005 (Y. S. Bae *et al.*); 2♂, Cucphuong, Ninhbinh, 22-24. IV, 2006 (Y. S. Bae *et al.*); 4♂, Bachma, Thua Thien Hue, 18. VI. 2004 (Y. S. Bae *et al.*).

Distribution. Vietnam.

Isotenes Meyrick, 1938

Isotenes Meyrick, 1938. TS: *Isotenes melanoclera* Meyrick, 1938. *Piliscophora* Diakonoff, 1939. TS: *Piliscophora grisea* Diakonoff, 1939.

5. *Isotenes inae* Diakonoff, 1948

Harmologa miserana Fletcher, 1921 (nec Walker, 1863). *Isotenes miserana*; Diakonoff, 1941. *Isodemis inae* Diakonoff, 1948. TL: East Java (Tengger Mtns. Nongkodjadjar).

Specimens examined. 1♂, Tamdao, Vinhphuc, 4-5. V. 2005 (Y. S. Bae *et al.*); 1♂, Tamdao, Vinhphuc, 24. V. 2007 (Y. S. Bae *et al.*); 1♂, Cucphuong, Ninhbinh, 24. IV. 2006 (Y. S. Bae *et al.*); 1♂, Bavi, Hanoi, 19. VII - 5. VIII. 2010 (Y. S. Bae & X.V. Le); 4♂, Bachma, Thua Thien Hue, 17-19. VI. 2004 (Y. S. Bae *et al.*).

Distribution. Vietnam, Thailand, Malaysia, Indonesia (Java), Nepal.

Homona Walker, 1863

Homona Walker, 1863. TS: *Homona fasciculana* Walker, 1863 [= *Tortrix coffearia* Nietner, 1861]. *Ericia* Walker, 1866. TS: *Ericia aestivana* Walker, 1866. [preoccupied]. *Ericiana* Strand, 1901 [replacement name for *Ericia*]. *Godana* Walker, 1866. TS: *Godana simulana* Walker, 1866.

6. *Homona coffearia* Nietner, 1861

Tortrix coffearia Nietner, 1861. TL: Sri Lanka. *Homona fasciculana* Walker, 1863. TL: Sri Lanka. *Pandemis menciana* Walker, 1863. TL: China (Shanghai). *Tortrix fimbriana* Walker, 1869. TL: India (Benares [Varanasi]). *Monona euryptera* Diakonoff, 1941. TL: Indonesia (Java).

Specimens examined. 7♂, Tamdao, Vinhphuc, 15. VIII. 2005 (Y. S. Bae *et al.*); 5♂, 2♀, Cucphuong, Ninhbinh, 12-13. VI. 2004 (Y. S. Bae *et al.*); 10♂, 1♀, Cucphuong, Ninhbinh, 30. IV - 2. V. 2005 (Y. S. Bae *et al.*); 1♂, 1♀, Babe, Backan, 12. VI. 2004 (Wakabayashi M. *et al.*); 4♂, 3♀, Babe, Backan, 27. VII. 2006 (Y. S. Bae *et al.*); 2♂, 1♀, Bachma, Thua Thien Hue, 18. VI. 2004 (Y. S. Bae *et al.*).

Distribution. Vietnam, Thailand, Malaysia (Sarawak, Sabha), Indonesia (Java), Brunei, China, India, Sri Lanka.

7. *Homona eductana* Walker, 1863

Pandemis eductana Walker, 1863. TL: India (Hindustan). *Cacoecia difficilis* Meyrick, 1928. TL: Borneo (Sarawak, Kungching). *Cacoecia permutana* Meyrick, 1928. TL: India (Andaman Islands).

Specimens examined. 2♂, 6♀, Tamdao, Vinhphuc, 27. IV. 2006 (Y. S. Bae *et al.*); 2♂, 1♀, Cucphuong, Ninhbinh, 30. IV - 2. V. 2005 (Y. S. Bae *et al.*); 15♂, 2♀, 1♀, Cucphuong, Ninhbinh, 22-24. IV, 2006 (Y. S. Bae *et al.*); 2♂, 5♀, Babe, Backan, 27. VII. 2006 (Y. S. Bae *et al.*); 1♀, Babe, Backan, 21. V. 2007 (Y. S. Bae *et al.*).

Distribution. Vietnam, China, Hongkong, Myanmar, Thailand, Malaysia, Brunei, Indonesia (Borneo, Java), Philippine, India.

8. *Homona encausta* Meyrick, 1907

Tortrix encausta Meyrick, 1907. TL: Sri Lanka. *Archips encausta*; Clarke, 1958. *Archips dicaeus* Diakonoff, 1968. TL: Philippine (Luzon).

Specimens examined. Tamdao, Vinhphuc: 1♂, 4-5. V. 2005 (Y. S. Bae *et al.*). Babe, Backan: 3♂, 1♀, 27. VII. 2006 (Y. S. Bae *et al.*).

Distribution. Vietnam, Thailand, Malaysia, Philippine, Indonesia (Sulawesi, Moluccas), Sri Lanka, Nepal, India.

Adoxophyes Meyrick, 1881

Adoxophyes Meyrick, 1881. TS: *Adoxophyes heteroidana* Meyrick, 1881.

9. *Adoxophyes fasciculana* Walker, 1866

Tortrix fasciculana Walker, 1866. TL: Indonesia (Molucca Islands, Ceram). *Adoxophyes cyrtosema* Meyrick, 1886. *Capua epipepla* Lower, 1908. TL: Australia (Queensland, Cooktown). *Adoxophyes asciculata*; Meyrick, 1912 [misspelling of *fasciculana*].

Specimens examined. 3♂, Tamdao, Vinhphuc, 6-9. VII. 2003 (Y. S. Bae *et al.*); 6♂, Cucphuong, Ninhbinh, 30. IV-2. V. 2005 (Y. S. Bae *et al.*); 1♂, Babe, Backan, 21.V. 2007 (Y. S. Bae *et al.*); 4♂, Bavi, Hanoi, 19. VII- 5. VIII. 2010 (Y. S. Bae & X.V. Le); 3♂, Bachma, Thua Thien Hue, 18. VI. 2003 (Y. S. Bae *et al.*); 4♂.

Distribution. Vietnam, Indonesia (Sumatra), Philippine, Singapore, China, Australia, Tongo, Fiji, New Guinea, New Ireland.

10. *Adoxophyes privatana* Walker, 1863

Dichelia privatana Walker, 1863. TL: India (Hindustan). *Adoxophyes privatana*; Walsingham, 1900. *Adoxophyes euryomis* Meyrick, 1902. TL: India.

Specimens examined. 8♂, 5♀, Tamdao, Vinhphuc, 14. VIII. 2005 (Y. S. Bae *et al.*); 4♂, 2♀, Tamdao, Vinhphuc, 27. IV. 2006 (Y. S. Bae *et al.*); 12♂, 5♀, Cucphuong, Ninhbinh, 30. IV

- 2. V. 2005 (Y. S. Bae *et al.*); 5♂, 5♀, Cucphuong, Ninhbinh, 10. VIII, 2005 (Y. S. Bae *et al.*); 3♂, 2♀, Babe, Backan, 26. IV. 2006 (Y. S. Bae *et al.*); 8♂, Bavi, Hanoi, 1. VIII. 2010 (Y. S. Bae & X.V. Le).

Distribution. Vietnam, Thailand, Malaysia, Philippine, Indonesia (Sumatra, Java, Borneo), Singapore, Korea, Japan, China, Hongkong, Taiwan, Sri Lanka, India, Nepal.

11. *Adoxophyes afonini* Razowski, 2009

Adoxophyes afonini Razowski, 2009. TL: Vietnam (Ngoclinh, Tamdao Mt.).

Specimens examined. 2♂, 1♀, Tamdao, Vinhphuc, 14. VIII. 2005; 1♂, Cucphuong, Ninhbinh, 31. VI. 2005; 1♂, Cucphuong, Ninhbinh, 24. IV, 2006 (Y. S. Bae *et al.*).

Distribution. Vietnam (Ngoc Linh, Tamdao, Vinhphuc, Cucphuong, Ninhbinh).

Distribution. Vietnam.

12. *Adoxophyes moderatana* Walker, 1863

Tortrix moderatana Walker, 1863. TL: Boneo (Sarawak). *Adoxophyes epizeucta* Meyrick, 1910. TL: New Guinea (Woodlark Island; Solomon Island). *Parascaptia insignifica* Rothschild, 1915. TL: New Guinea. *Adoxophyes prosiliens* Meyrick, 1928. TL: India (Andaman Islands, Port Blair).

Specimens examined. 1♂, Cucphuong, Ninhbinh, 14. IV. 2004 (Y. S. Bae *et al.*); 1♂, Bachma, Thua Thien Hue, 18. IV. 2004 (Y. S. Bae *et al.*).

Distribution. Vietnam, Thailand, Malaysia, Indonesia (Borneo, Sulawesi).

13. *Adoxophyes tetraphracta* Meyrick, 1938

Adoxophyes tetraphracta Meyrick, 1938. TL: Pupua New Guinea (Mt. tafa). *Adoxophyes acropeta* Diakonoff, 1953. TL: New Guinea (Nassau Range, Top Camp).

Specimens examined. 7♂, Cucphuong, Ninhbinh, 24. IV. 2006 (Y. S. Bae *et al.*); 1♂, Bavi, Hanoi, 1. VIII. 2010 (Y. S. Bae & X.V. Le).

Distribution. Vietnam (new record), New Guinea.

Neocalyptis Diakonoff, 1941

Neocalyptis Diakonoff, 1941. TS: *Neocalyptis telutanda* Diakonoff, 1941.

Calala Yasuda, 1972. TS: *Epagoge angustilineata* Walsingham, 1900. [subgenus of *Neocalyptis*].

14. *Neocalyptis affinisana* Walker, 1863

Tortrix affinisana Walker, 1863. TL: Sri Lanka. *Capua affinisana* Meyrick, 1912. *Epagoge affinisana*; Diakonoff, 1941. *Epagoge affinisana*; Diakonoff, 1952. *Neocalyptis affinisana*; Diakonoff, 1976.

Specimens examined. 5♂, Tamdao, Vinhphuc, 15. VIII. 2005 (Y. S. Bae *et al.*); 9♂, 2♀, Cucphuong, Ninhbinh, 30. IV - 2. V. 2005 (Y. S. Bae *et al.*); 5♂, Bavi, Hanoi, 1. VIII. 2010 (Y. S. Bae & X. V. Le); 2♂, Babe, Backan, 12. VI. 2004 (Wakabayashi M. *et al.*); 42♂, 1♀, Bachma, Thua Thien Hue, 18. VI. 2004 (Y. S. Bae *et al.*).

Distribution. Widely distributed in South and Southeast Asia.

Gnorismoneura Issiki & Stringer, 1932

Gnorismoneura Issiki & Stringer, 1932. TS: *Gnorismoneura exulis* Issiki & Stringer, 1932.

15. *Gnorismoneura chyta* Razowski, 2009

Gnorismoneura chyta Razowski, 2009. TL: Vietnam (Tamdao, Vinhphuc).

Specimens examined. 7♂, Tamdao, Vinhphuc, 6-9. VII. 2003 (Y. S. Bae *et al.*); 3♂, 2♀, Tamdao, Vinhphuc, 26-31. VII. 2006 (Y. S. Bae *et al.*); 1♂, Tamdao, Vinhphuc, 24-25. IV. 2007 (Y. S. Bae *et al.*).

Distribution. Vietnam.

***Isodemis* Diakonoff, 1952**

Isodemis Diakonoff, 1952. TS: *Batodes serpentiana* Walker, 1863.

16. *Isodemis illiberalis* Meyrick, 1918

Tortrix illiberalis Meyrick, 1918. TL: India (Bangla, Darjiling). *Cacoecia interjecta* Meyrick, 1922. TL: India (Bangla, Darjiling). *Syndemis montivola* Diakonoff, 1941. TL: India (Bangla, Darjiling). *Isobemis illiberalis*; Diakonoff 1976.

Specimens examined. 14♂, 1♀, Tamdao, Vinhphuc, 4-5. V. 2005 (Y. S. Bae *et al.*); 3♂, Tamdao, Vinhphuc, 30.VII-1.VIII. 2006 (Y. S. Bae *et al.*).

Distribution. Vietnam, Thailand, China, India, Nepal.

17. *Isodemis proxima* Razowski, 2000

Isodemis proxima Razowski, 2000. TL: Taiwan (Kaohsiung, Shanping).

Specimens examined. 1♂, Bavi, Hanoi, 19. VII-5. VIII. 2010 (Y. S. Bae & X.V. Le); 3♂, 1♀, Babe, Backan, 21. V. 2007 (Y. S. Bae *et al.*).

Distribution. Vietnam, Thailand, Indonesia, Sri Lanka, India, New Ireland.

***Meridemis* Diakonoff, 1976**

Meridemis Diakonoff, 1976. TS: *Meridemis furtiva* Diakonoff, 1976.

18. *Meridemis bathymorpha* Diakonoff, 1976

Meridemis bathymorpha Diakonoff, 1976. TL: Nepal (Godavari).

Specimens examined. 1♂, 3♀, Tamdao, Vinhphuc, 5. V. 2005 (Y. S. Bae *et al.*); 1♀, Cucphuong, Ninhbinh, 12. VI. 2004 (Y. S. Bae *et al.*); 2♀, Cucphuong, Ninhbinh, 30. IV - 2. V. 2005 (Y. S. Bae *et al.*); 2♂, Bavi, Hanoi, 2. VIII. 2010 (Y. S. Bae & X.V. Le).

Distribution. Vietnam (new record), Taiwan, Nepal, Thailand, W. Malaysia, Indonesia (Sumatra, Java, Bali, Sulawesi).

***Terthreutis* Meyrick, 1918**

Terthreutis Meyrick, 1918. TS: *Terthreutis sphaerocosma* Meyrick, 1918. *Amniodes* Meyrick, 1938. TS: *Amniodes xanthocycla* Meyrick, 1938. *Terthreutes*; Wileman & Stringer, 1929 [misspelling of *Terthreutis*].

19. *Terthreutis bulligera* Meyrick, 1928

Terthreutis bulligera Meyrick, 1928. TL: India (Bengal, Calcutta).

Specimens examined. 1♂, Tamdao, Vinhphuc, 5. V. 2005 (Y. S. Bae *et al.*).

Distribution. Vietnam (new record), Taiwan, India, Nepal.

***Ulodemis* Meyrick, 1907**

Ulodemis Meyrick, 1907. TS: *Ulodemis trigrapha* Meyrick, 1907.

20. *Ulodemis hyalura* Diakonoff, 1983

Ulodemis hyalura Diakonoff, 1983. TL: Indonesia (Sumatra, Mt. Bandahara, Bivouac One).

Specimens examined. 11♂, 4♀, Tamdao, Vinhphuc, 6-9. VII. 2003 (Y. S. Bae *et al.*); 10♂, 1♀, Tamdao, Vinhphuc, 4-5. V. 2005 (Y. S. Bae *et al.*); 1♂, Cucphuong, Ninhbinh, 30. IV - 2. V. 2005 (Y. S. Bae *et al.*); 1♂, Bavi, Hanoi, 19. VII-5. VIII. 2010 (Y. S. Bae & X. V. Le); 4♂, 1♀, Bachma, Thua Thien Hue, 18. VI. 2004 (Y. S. Bae *et al.*).

Distribution. Vietnam (new record), Malaysia, Indonesia (Sumatra, Java).

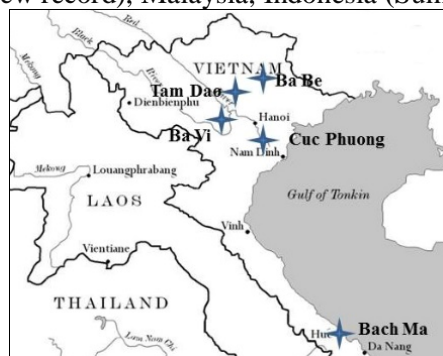


Figure 1: Collecting sites in North Vietnam

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THỐNG KÊ CÁC LOÀI THUỘC TỘC Archipini (LEPIDOPTERA: TORTRICIDAE) Ở MIỀN BẮC VIỆT NAM

LÊ XUÂN VỊ

TÓM TẮT

Tổng số 20 loài thuộc 12 giống của tộc Archipini đã được thu thập từ 5 vườn Quốc gia ở miền Bắc Việt Nam. Trong số đó lần đầu tiên ghi nhận 5 loài: *Adoxophyes tetraphracta* Meyrick; *Meridemis bathymorpha* Diakonoff; *Pademis corylana* Fabricius; *Terthreutis bulligera* Meyrick và *Ulodemis hyalura* Diakonoff. Bài báo này còn đưa ra khóa định loại đến các giống của tộc Archipini ở Việt Nam. Khóa định loại đã được xây dựng dựa trên các đặc điểm cấu tạo mạch cánh và bộ phận sinh dục của trưởng thành đực.