ON THE JAPANESE *HYDROCAMPINÆ*

BY

J. SHIBUYA, F. E. S.

(Plate V)

The first Japanese species belonging to the *Hydrocampinæ*, a subfamily of *Pyralidæ*, were described by A. G. BUTLER in 1879[1], and in that publication he mentioned two new species, namely *Pelena sericea* BUTL. and *Epimima exigua* BUTL., both the types of these species were taken in Yokohama by H. PRYER, and the former originally placed in the genus *Dëana*, and the latter in *Samea*.

In the same year, in the Illustration of typical specimens of Lepidoptera Heterocera in the collection of the British Museum, vol. iii, p. 75, pl. 59, f. 7, BUTLER originated another new species, *Nymphula corculina* BUTL., with a specimen collected in Yokohama by F. M. JONAS.

In 1881[2], BUTLER described the following three new species from Japan:

1. *Nymphula turbata* BUTL. (originally placed in genus *Paraponyx*).
2. *Clupeosoma pryeri* BUTL. (" " " " *Anemoa*).
3. *Cataclysta midas* BUTL.

In 1885[3], H. PRYER enumerated three unrecorded species, *Nymphula interruptalis* PRYER, *Nymphula vittalis* BREM. and *Bradina atopalis* WLK.

In 1889[4], J. H. LEECH described the following three new species from Japan:

1. *Leparodes floralis* LEECH
2. *Parthenodes prodigalis* LEECH (originally placed in genus *Cataclysta*).
3. *Piletocera sodalis* LEECH (originally placed in genus *Desmia*).

In regard to *L. floralis* LEECH, I have in this paper treated with this species as a synonym of *N. turbata* BUTL.

In the Fauna of British India, Moths, vol. iv, 1896, G. F. HAMPSON recorded *Bradina admixtalis* WLK. as occurring in Japan. In the following year[5]

1) Ann. Mag. Nat. Hist., (5) iv, (1879).
2) Trans. Ent. Soc. Lond., (1881).
3) Trans. Asiat. Soc. Jap, Vol. xiii, Pt. 1, (1885).
4) Entmologist, xxii, (1889).
5) Trans. Ent. Soc. Lond., (1897).

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HAMPSON added the following three unrecorded species to the *Hydrocampid*-fauna of Japan:

1. *Cataclysta blandialis* WLK. 2. *Stenia charonialis* WLK.
3. *Perinephela lancealis* SCHIFF. et DEN.

In 1900,[6] Prof. Dr. S. MATSUMURA gave Japan as a locality of *Nymphula fluctuosalis* ZELL. In 1901, R. SOUTH published J. H. LEECH's MS. of Lepidoptera, Heterocera from China, Japan and Corea[7], and dealt with several *Hydrocampid*-moths from Japan, among which the following five were recorded first as occurring in Japan:

1. *Nymphula fengwhanalis* PRYER 2. *Nymphula responsalis* WLK.
3. *Bradina megesalis* WLK. 4. *Diathrausta picata* BUTL.
5. *Piletocera aeginiusalis* WLK.

Nymphula enixalis SWINH. from India has been treated as a synonym of *Nymphula responsalis* WLK. but, as far as my studies go, the former may be distinguished from the latter by the ground colour of wings and the undulation of the ante- and postmedial lines to the fore wing, which are quite different, and the Japanese specimen identified by LEECH as *N. responsalis* WLK. is identical with *N. enixalis* SWINH. In regard to *Diathrausta picata* BUTL., I was able to give the personal examination upon the Japanese specimens identified by LEECH as the preceding species, and came to the conclusion that *Diathrausta picata* LEECH (nec WLK.) is identical with *Diathrausta brevifascialis* WLMN.

In 1911,[8] A. E. WILEMAN enumerated the following three new species, two unrecord species and one variety from Japan:

1. *Nymphula stagnata* DON.
2. *Nymphula foedalis* GN.
3. *Nymphula interruptalis* PRYER var. *separatalis* LEECH
4. *Aulacodes nawalis* WLMN. (sp. nov.)
5. *Nymphula bifurcalis* WLMN. (sp. nov.).....(originally placed in genus *Parthenodes*).
6. *Diathrauta brevifascialis* WLMN. (sp. nov.).....(originally placed in genus *Syngamia*).

I had an opportunity of examining the type specimen of *A. nawalis* WLMN. and learned that this species seems to be identical with *Nymphula corculina* BUTL.

In 1912,[9] HAMPSON originated another one new species *Nacoleia lophophoralis*

6) Ill. Zeit. Ent. Berlin, V (24), (1900).
7) Trans. Ent. Soc. Lond., (1901).
8) Trans. Ent. Soc. Lond., (1911).
9) Ann. Mag. Nat. Hist., (8) ix, (1912)

HMPSN. from Japan. The specimen of this species has vein 10 of the fore wing distinctly stalked with 8, 9, therefore in this paper, I have transferred this species from *Pyraustinae* to the present subfamily, and placed in genus *Bradina*.

In 1917, Prof. Dr. S. MATSUMURA, in his Oyo-konchugaku (Applied Entomology), described a new species *Nymphula munakatae* MATS., but this species was already stated as a synonym of *Nymphula ussuriensis* REBEL by myself.*

In Dainippon-gaichuzensho (The injurious Insects of the Japanese Empire) published by Prof. S. MATSUMURA, another one new species *Epimima nawae* MATS., originally placed in genus *Bradinomorpha* MATS., was described. The genus *Bradinomorpha*, so far as my studies go, has not been yet described by Prof. S. MATSUMURA. The species enumerated as *Bradina admixtalis* MATS. (nec WLK.) by Prof. S. MATSUMURA in his Oyo-konchugaku seems to be identical with *Epimima nawae* MATS.

In 1923,[10] Dr. N. MARUMO added the following two unrecorded species to the *Hydrocampid*-fauna of Japan:

1. *Camptomastix hisbonalis* WLK. 2. *Musotima acclaralis* WLK.

It can now be seen that thirty-three species and one variety have been enumerated from Japan, three of which have already become synonyms and two have wrongly been recorded as occurring in this country.

I have included in this paper the following two new species and three unrecorded species; thus, it has been known to us sixteen genera with thirty-four species and one variety as existing in Japan.

1. *Nymphula takamukui* SHIBUYA (sp. nov.).
2. *Epimima daisensis* SHIBUYA (sp. nov.).
3. *Daulia afralis* WLK.

   1 ♂, July, 1916, Tokyo, MATSUMURA.
4. *Psammotis pulveralis* HBN.

   1 ♂, August 31, 1917, Sapporo, MATSUMURA.

   1 ♂, August, 1918, Sapporo, MATSUMURA.
5. *Mabra eryxalis* WLK.

   1 ♂, October 20, 1895, Higo, WILEMAN.

In conclusion, much invaluable aid in many ways during the course of preparation of this paper was given by Dr. S. MATSUMURA, Professor of Entomology of the Hokkaido Imperial University, Sapporo, to whom my warm tribute is due.

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* Insecta Matsumurana, Vol. II, Pt. 2, p. 97 (1927).

10) Jpur. Col. Agr. Tokyo Imp. Univ., viii (11), (1923).

Key to the Genera

A. Palpi upturned.
  a. Palpi with the 3rd joint long and acuminate.
    a.[1] Maxillary palpi filiform and of moderate length.
      a.[2] Antennae with the shaft smooth ... ... PELENA
      b.[2] Antennae with the shaft annulated . ... CATACLYSTA
    b.[1] Maxillary palpi long and dilated with scales at extremities . ... NYMPHULA
  b. Palpi with the 3rd joint long and spatulated at extremities; hind wing with vein 7 given off from before the end of cell . ... MUSOTIMA
  c. Palpi with the 3rd joint short and blunt.
    a.[1] Antennae with the shaft annulated ... ... BRADINA
    b.[1] Antennae with the shaft smooth . ... PILETOCERA
  d. Palpi with a triangular tuft in front of the 3rd joint . ... EPIMIMA

B. Palpi porrect.
  a. Palpi once to twice the length of head.
    a.[1] Palpi triangularly scaled, the 3rd joint hidden by hair.
      a.[2] Hind wing with vein 4 absent. ... ... DIATHRAUSTA
      b.[2] Hind wing with vein 4 present.
        a.[3] Hind wing with veins 4, 5 closely approximated for a short distance.
          a.[4] Fore wing long and narrow, vein 3 from before angle of cell... ... ... STENIA
          b.[4] Fore wing subtriangular, vein 3 from angle of cell .... DAULIA
        b.[3] Hind wing with veins 4, 5 not approximated towards the origin.
          a.[4] Maxillary palpi dilated with scales.
            a.[5] Fore wing short and broad, the termen roundly oblique ... ... PSAMMOTIS
            b.[5] Fore wing long and narrow, the termen very oblique ... ... PERINEPHELA
          b.[4] Maxillary palpi filiform ... ... MABRA
    b.[1] Palpi straight and fringed with long hair below, the 3rd joint prominent... ... PARTHENODES
  b. Palpi projecting thrice the length of head and down-curved at extremities ... ... CLUPEOSOMA
  c. Palpi projecting thrice the length of head and straight ... ... CAMPTOMASTIX

Genus ***Nymphula*** SCHRK.

Nymphula SCHRANCK, Faun. Boica, ii (2), p 162 (1802) ... ... type *nymphaeata* LINN.
Hydrocampa LATREILLE, Fam. Nat. Anim., p. 478 (1825)... ... ... type *nymphaeata* LINN.
Parapoynx HUEBNER, Verz. Schmett., p. 362 (1826) ... ... type *stratiotata* LINN.
Synclita LEDERER, Wien. Ent. Mon., vii, p. 448 (1863). ... ... type *gurgitalis* LED.
Nymphaeella GROTE, N. Am. Ent., I, p. 97 (1880) ... ... type *maculalis* CLEM.
Hygraula MEYRICE, Tr. N. Z. Inst., xvii, p. 129 (1885) ... ... type *nitens* BUTL.
Metoeca WARREN, Ann. Mag. Nat. Hist., (6) xvii, p. 145 (1896) ... ... type *foedalis* GN.
Kasania KRULIKOSVKY, Rev. Russ. Ent., ix, p. 316 (1909)... ... ... type *arundinalis* EV.

Key to the Species

A. Fore wing with large white patches in the middle area.
  a. Hind wing with a broad white medial band contained a black-edged yellow dot in the middle.

a.1 Ground colour of wings yellow; fore wing lacking medial and postmedial lines; expanse of wings 27 mm. ... ... *N. interruptalis* PRYER

b.1 Ground colour of wings brown, suffused with yellow; fore wing with white medial and postmedial lines; expanse of wings 15 mm. ... ... *N. enixalis* SWINH.

b. Hind wing with a broad white medial band not contained a black edged yellow dot in the middle.

a.1 Fore wing with the white patch in the middle of dorsum, rounded in shape or nearly rounded.

a.2 Hind wing with a white terminal band ... ... *N. stagnata* DON.

b.2 Hind wing with a short white fascia in the terminal area... ... ... *N. corculina* BUTL.

b.1 Fore wing with the white patch in the middle of dorsum, irregularly elongate in shape ... ... *N. bifurcalis* WLMN.

B. Fore wing lacking white patches in the middle area.

a. Ground colour of wings yellow.

a.1 Both wings with dark edged yellow patches; hind wing lacking white medial and subterminal bands ... ... *N. fengwhanalis* PRYER

b.1 Both wings lacking dark edged yellow patches; hind wing with white medial and subterminal bands.

a.2 Fore wing with two black spots just beyond the discocellulars... ... *N. vittalis* BREM.

b.2 Fore wing with a single black spot at the upper angle of cell... ... *N. fluctuosalis* ZELL.

b. Ground colour of wings brown, tinged with yellow.

a.1 Fore wing very narrow, lacking a medial white line; a black dot at the upper angle of cell ... ... *N. ussuriensis* REBEL

b.1 Fore wing of moderate width, lacking a black dot at the upper angle of cell.

a.2 Lines to both wings white; hind wing with the middle area whitish, very slightly tinged with yellow, lacking a black fascia in the middle ... ... *N. turbata* BUTL.

b.2 Lines to both wings black; hind wing with the middle area concolorous with the rest of wing, having three black fasciae in the middle ... ... *N. foedalis* GN.

c. Ground colour whitish, with brownish and blackish markings . ... *N. takamukui* SHIB. (sp. nov.)

1. *Nymphula stagnata* DON. (Pl. V, f. 1)

Phalaena stagnata DONOVAN, Nat. Hist., xi, p. 10, pl. 363, f. 2 (1806).

Hydrocampa stagnata GUENÉE, Delt. et Pyr., p. 276 (1854); LEDERER, Wien. Ent. Mon., vii, p. 451 (1863); REUTER, Acta. Soc. Faun. Fl. Fennica, xv (5), p. 17 (1899).

Nymphula stagnata MEYRICK, Trans. Ent. Soc. Lond., p. 466 (1890); id., Brit. Lep., p. 402 (1895); HAMPSON, Trans. Ent. Soc. Lond., p. 139 (1897); STAUDINGER & REBEL, Cat. Lep. Palaearc., ii, p. 48 (1901); WILEMAN, Trans. Ent. Soc. Lond., p. 372 (1911).

Loc. Distr.: Hokkoido.

Gen. Distr.: Europe; Siberia; Asia Minor; Japan.

2. *Nymphula interruptalis* PRYER (Pl. V, f. 2)

Hydrocampa interruptalis PRYER, Cist. Ent., ii, p. 233, pl. 4, f. 5 (1877); id., Trans. Asiat. Soc. Jap., xiii (1), p. 62 (1885).

Nymphula interruptalis HAMPSON, Trans. Ent. Soc. Lond., p. 139 (1897); STAUDINGER & REBEL,

Cat. Lep. Palaearc., ii, p. 258 (1901); LEECH, Trans. Ent. Soc. Lond., p. 432 (1901); MATSUMURA, Cat. Ins. Jap., p. 204 (1905); WILEMAN, Trans. Ent. Soc. Lond., p. 370 (1911); SUZUKI, List Sp. Hanazono Ent. Labr., p. 24 (1915).

Loc. Distr.: Hokkaido (Hakodate); Honshu (Tokyo, Yokohama, Fushiki, Yoshino); Kiushu (Saga).

Gen. Distr.: China; Korea; Japan.

2a. *Nymphula interruptalis* PRYER var. *separatalis* LEECH

Hydrocampa interruptalis PRYER var. *separatalis* LEECH, Entom., xxii, p. 71, pl. 4, ff. 2, 13 (1889).

Loc. Distr.: Shikoku (Iyo).

Gen. Distr.: Korea; Japan.

3. *Nymphula corculina* BUTL. (Pl. V, f. 3)

Oligostigma corculina BUTLER, Ill. Typ. Sp. Het. B. M., iii, p. 75, pl. 59, f. 7 (1879); PRYER, Trans. Asiat. Soc. Jap., xiii (1), p. 61 (1885); HAMPSON, Trans. Ent. Soc. Lond., p. 167 (1897); LEECH, Trans. Ent. Soc. Lond., p. 436 (1901); MATSUMURA, Cat. Ins. Jap., p. 204 (1905); SUZUKI, List Sp. Hanazono Ent. Labr., p. 25 (1915); MATSUMURA, Jour. Col. Agr. Hokkaido Imp. Univ., xv (3), p. 187 (1925).

Aulacodes nawalis WILEMAN, Trans. Ent. Soc. Lond., p. 373 (1911).

Loc. Distr.: Hokkaido (Teshio); Honshu (Yokohama).

Gen. Distr.: Saghalien; Japan.

4. *Nymphula bifurcalis* WLMN. (Pl. V, f. 4)

Parthenodes bifurcalis WILEMAN, Trans. Ent. Soc. Lond., p. 373, pl. 31, f. 23 (1911).

Loc. Distr.: Honshu (Chichibu, Omeisan); Shikoku (Iyo).

Gen. Distr.: Korea; Japan.

5. *Nymphula foedalis* GN.

Isopteryx foedalis GUENÉE, Delt. et Pyr., p. 228, pl. 4, f. 7 (1854); WALKER, Cat. Lep. Het. B. M., xvii, p. 402 (1859); LEDERER, Wien. Ent. Mon., vii, p. 449 (1863); SNELLEN, Tijd. v. Ent., xv, p. 96 (1872); id., l. c., xxvii, p. 47 (1884); MOORE, Lep. Ceyl., iii, p. 306 (1886); SWINHOE & COTES, Cat. Moths of Ind., p. 653 (1889).

Isopteryx tenellalis GUENÉE, Delt. et Pyr., p. 228 (1854).

Isopteryx (?) leucothoalis WALKER, Cat. Lep. Het. B. M., xvii, p. 400 (1859).

Isopteryx spilomelalis WALKER, l. c., p. 403 (1859).

Zebronia oethonalis WALKER, l. c., p. 484 (1859).

Hydrocampa scitalis LEDERER, Wein. Ent. Mon., vii, pp. 451, 483 (1863).

Pterygisus foedalis MEYRICK, Trans. Ent. Soc. Lond., p. 229 (1887); id., l. c., p. 470 (1894); SNELLEN, Trans. Ent. Soc. Lond., p. 638 (1890).

Physematia epispila MEYRICK, l. c., p. 257 (1886).

Nymphula foedalis HAMPSON, Faun. Brit. Ind. Moths, iv, p. 192 (1896); id., Trans. Ent. Soc. Lond., p. 140 (1897); LEECH, Trans. Ent. Soc. Lond., p. 372 (1911); STRAND, Entom. Mitteil., viii (1/3), p. 60 (1919); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ., xxii (1), p. 142 (1928).

Metoeca foedalis WARREN, Ann. Mag. Nat. Hist., (6) xvii, p. 145 (1896).

Loc. Distr.: Kiushu (Miyazaki, Takanabe).

Gen. Distr.: India; Ceylon; Java; New Guinea; Singapore; Philippines; U. S. A.; China; Formosa; Japan.

6. *Nymphula fengwhanalis* PRYER (Pl. V, f. 5)

Lepyrodes fengwhanalis PRYER, Cist. Ent., ii, p. 235, pl. 4, f. 11 (1877).

Nymphula fengwhanalis HAMPSON, Trans. Ent. Soc. Lond., p. 140 (1897); LEECH, Trans. Ent. Soc. Lond., p. 432 (1901); MATSUMURA, Cat. Ins. Jap., p. 204 (1905).

Loc. Distr.: Honshu (Tsuruga).

Gen. Distr.: China; Korea; Japan.

7. *Nymphula turbata* BUTL. (Pl. V, f. 6)

Paraponyx turbata BUTLER, Trans. Ent. Soc. Lond., p. 586 (1881); PRYER, Trans. Asiat. Soc. Jap., xiii (1), p. 62 (1885).

Leparodes floralis LEECH, Entom., xxii, p. 71, pl. 4, f. 1 (1889).

Nymphula turbata MEYRICK, Trans. Ent. Soc. Lond., p. 470 (1894); LEECH, Trans. Ent. Soc. Lond., p. 433 (1901); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ., xxii (1), p. 143 (1928).

Nymphula turbata HAMPSON (part), Faun. Brit. Ind. Moths, iv, p. 192 (1896); id., Trans. Ent. Soc. Lond., p. 141 (1897); SWINHOE, Cat. Het. Mus. Oxf., ii, p. 438 (1900); MATSUMURA, Cat. Ins. Jap., p. 204 (1905).

Nymphula floralis LEECH, Trans. Ent. Soc. Lond., p. 433 (1901); MATSUMURA, Cat. Ins. Jap., p. 204 (1905).

Parthenodes sutschana HAMPSON, Trans. Ent. Soc. Lond., p. 384 (1900); LEECH, Trans. Ent. Soc. Lond., p. 438 (1901); WILEMAN, Trans. Ent. Soc. Lond., p. 374 (1911).

Loc. Distr.: Hokkaido (Sapporo, Hakodate); Honshu (Yoshino Tsuruga, Fushiki, Misaki, Yokohama); Kiushu (Saga, Satsuma).

Gen. Distr.: Amur; China; Korea; Formosa; Japan.

8. *Nymphula enixalis* SWINH. (Pl. V, f. 7).

Isopteryx enixalis SWINHOE, Proc. Zool. Soc. Lond., p. 869 (1885); SWINHOE & COTES, Cat. Moths of Ind., p. 953 (1889).

Cymoriza linealis MOORE, Lep. Atk., p. 210 (1880); SWINHOE & COTES, l. c., p. 648 (1889).

Nymphula enixalis SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ., xxii (1), p. 143, pl. vi, f. 3 (1928).

Loc. Distr.: Honshu (Nikko, Yoshino).

Gen. Distr.: India; Morton Bay; Formosa; Japan.

9. *Nymphula vittalis* BREM. (Pl. V, f. 8)

Oligostigma vittalis BREMER, Lep. Ost-Sib., p. 66, pl. 6, f. 3 (1864); PRYER, Trans. Asiat. Soc. Jap., xiii (1), p. 61 (1885).

Oligostigma regularis PRYER, Cist. Ent., ii, p. 234, pl. 4, f. 8 (1877).

Nymphula vittalis MEYRICK, Trans. Ent. Soc. Lond., p. 466 (1890); HAMPSON, Trans. Ent. Soc. Lond., p. 142 (1897); STAUDINGER & REBEL, Cat. Lep. Palaearc., ii, p. 49 (1901); LEECH, Trans. Ent. Soc. Lond., p. 434 (1901); MATSUMURA, Cat. Ins. Jap., p. 204 (1905); WILEMAN, Trans. Ent. Soc. Lond., p. 371 (1911); SUZUKI, List Sp. Hanazono Ent. Labr., p. 24 (1915).

Loc. Distr.: Honshu (Yokohama); Shikoku (Iyo); Kiushu (Higo).

Gen. Distr.: Amur; China; Korea; Japan.

10. *Nymphula ussuriensis* REBEL (Pl. V, f. 9)

Nymphula ussuriensis REBEL, Deut. Ent. Zeit. Iris, xxiv, p. 6, pl. I, f. 7 (1910).

Nymphula munakatae MATSUMURA, Oyo-konchugaku, p. 548 (1920).

Loc. Distr.: Hokkaido (Hakodate); Honshu (Aomori, Settsu, Tokyo).

Gen. Distr.: E. Siberia; Korea; Japan.

11. *Nymphula fluctuosalis* ZELL. (Pl. V, f. 11)

Nymphula fluctuosalis ZELLER, Lep. Microp. Caffr., p. 27 (1852); MEYRICK, Trans. Ent. Soc. Lond., p. 11 (1894); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 193 (1896); id., Trans. Ent. Soc. Lond., p. 143 (1897); SWINHOE, Cat. Het. Mus. Oxf., ii, p. 439 (1900); MATSUMURA, Ill. Zeit Ent. Berlin, v (24), p. 381 (1900); id., Cat. Ins. Jap., p. 204 (1905); WILEMAN, Trans. Ent. Soc. Lond., p. 371 (1911); STRAND, Entom. Mitteil., viii (4/5), p. 102 (1919); MATSUMURA, Oyo-konchugaku, p. 548, pl. 22, f. 7 (1920); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ., xxii (1), p. 144 (1928).

Parapoynx linealis GUENÉE, Delt. et Pyr., p. 271 (1854); WALKER, Cat. Lep. Het. B. M., xvii, p. 454 (1859); LEDERER, Wien. Ent. Mon., vii, p. 452 (1863); SNELLEN, Tijd. v. Ent., xxvii, p. 48 (1884); MOORE, Lep. Ceyl., iii, p. 302 (1885); SWINHOE & COTES, Cat. Moths of Ind., p. 649 (1889); MEYRICK, Trans. Ent. Soc. Lond., p. 212 (1888).

Oligostigma chrysippusalis WALKER, Cat. Lep. Het. B. M., xvii, p. 432 (1859).

Oligostigma obitalis WALKER, l. c., p. 432 (1859); WALLACE & MOORE, Proc. Zool. Soc. Lond., p. 364 (1866).

Parapoynx aptalis LEDERER, Wien. Ent. Mon., vii, pp. 452, 485 (1863).

Oligostigma curta BUTLER, Ent. Mon. Mag., xv, p. 270 (1879).

Parapoynx fluctuosalis HAMPSON, Ill. Typ. Sp. Het. B. M., viii, p. 40 (1891).

Loc. Distr.: Kiushu (Satsuma, Higo, Hiuga).

Gen. Distr.: India; Ceylon; China; Formosa; Japan.

12. *Nymphula takamukui* sp. nov. (Pl. V, f. 10)

♂. Palpi whitish, suffused with brown at the basal halves. Head brown, white at front. Antenna pale brown. Thorax, abdomen and wings whitish, very slightly tinged with brown. Fore wing with three black spots, one below the median nervure near the base, one in the middle of cell, and the other one at the discocellulars; two dark edged yellowish patches in the middle of the dorsal area and beyond the discocellulars; a dark dot at costa beyond the middle; a dark postmedial fascia excurved between vein 6 and above dorsum; subterminal line black and very distinct; cilia with a series of dark spots on it.

Hind wing concolorous with the fore wing; a black medial line becoming obsolete towards costa; a dark dot at the discocellulars; a dark edged yellowish postmedial fascia approximated to the medial line in the inner area and becoming blackish; subterminal line and cilia as those of the fore wing. Pectus and legs white. Expanse of wings 17 mm.

A single male, September 19, 1915, Yanagawa (T. TAKAMUKU).

Habitat: Kiushu (Yanagawa). Type in Coll. Ent Mus. (Sapporo).

Genus ***Cataclysta*** HBN.

Cataclysta HUEBNER, Verz. Schmett., p. 363 (1826). ... ... type *lemnata* LINN.
Chrysendeton GROTE, Papil., I, p. 16 (1881)... .... type *medicinalis* GROTE

Key to the Species

a. Expanse of wimgs 26 mm.; fore wing with prominent and irregular patches beyond the middle; basal half of the hind wing whitish, and ornamented dark-edged yellow patches ... ... *C. midas* BUTL.
b. Expanse of wings 13 mm.; white patches to the fore wing not prominent; dorsal area triangularly whitish in the middle and coarsely speckled with black scales; hind wing entirely whitish and also speckled with black scales ... ... *C. blandialis* WLK.

13. ***Cataclysta blandialis*** WLK. (Pl. V, f. 12)

Cataclysta blandialis WALKER, Cat. Lep. Het. B. M., xvii, p. 448 (1859); MOORE, Lep. Ceyl., iii, p. 299, pl. 179, f. 15 (1885); SWINHOE & COTES, Cat. Moths of Ind., p. 651 (1889); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 197 (1896); id., Trans. Ent. Soc. Lond., p. 148 (1897); LEECH, Trans. Ent. Soc. Lond., p. 435 (1901); MATSUMURA, Cat. Ins. Jap., p. 204 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ., xxii (1), p. 146 (1928).

Cataclysta patnalis FELDER & ROGENHOFER, Reis. Novara, Lep., II, (2), pl. 136, f. 7 (1874); SWINHOE & COTES, l. c., p. 652 (1889).

Cataclysta cuneifera MOORE, l. c., p. 300, pl. 179, f. 14 (1885); SWINHOE & COTES, l. c., p. 651 (1889).

Cataclysta bombayensis SWINHOE et COTES, l. c., p. 651 (1889).

Cataclysta junctalis HAMPSON, Ill. Typ. Sp. Het. B. M., viii, p. 140, pl. 155, f. 24 (1891); MARUMO, Jour. Col. Agr. Tokyo Imp. Univ., viii (11), p. 187 (1923).

Cataclysta nigritalis HAMPSON, Ill. Typ. Sp. Het. B. M., ix, p. 178, pl. 174, f. 5 (1893).

Cataclysta mesorphna MEYRICK, Trans. Ent. Soc. Lond., p. 10 (1894).

Anydraula xanthobathra MEYRICK, l. c., p. 474 (1894).

Cataclysta perirrorata HAMPSON, Ann. Mag. Nat. Hist., (8) xix, p. 374 (1917).

Loc. Distr.: Hokkaido (Hakodate); Honshu (Tokyo); Kiushu.
Gen. Distr.: India; Ceylon; Borneo; New Guinea; Formosa; Japan.

14. ***Cataclysta midas*** BUTL. (Pl. V, f. 13)

Cataclysta midas BUTLER, Trans. Ent. Soc. Lond., p. 585 (1881); PRYER, Trans. Asiat. Soc. Jap., xiii (1), p. 62 (1885); HAMPSON, Trans. Ent. Soc. Lond., p. 152 (1897); STAUDINGER & REBEL, Cat. Lep. Palaearc., ii, p. 258 (1901); LEECH, Trans. Ent. Soc. Lond., p. 435 (1901); MATSUMURA, Cat. Ins. Jap., p. 204 (1905).

Loc. Distr.: Honshu (Tokyo, Yokohama); Shikoku (Iyo).
Gen. Distr.: China; Amur; Korea; Japan.

Genus ***Parthenodes*** GN.

Parthenodes GUENÉE, Delt. et Pyr., p. 252 (1854) ... ... type *hydrocampalis* GN.
Paracymoriza WARREN, Ann. Mag. Nat. Hist., (6) vi, p. 479 (1890).. ... ... type *vagalis* WLK.

Stenicula SNELLEN, Tijd. v. Ent., 43, p. 284 (1901) ... ... type *latifascialis* WARR.

15. ***Parthenodes prodigalis*** LEECH (Pl. V, f. 15)

Cataclysta prodigalis LEECH, Entom., xxii, p. 70, pl. 4, f. 16 (1889).

Parthenodes prodigalis HAMPSON, Trans. Ent. Soc. Lond., p. 183 (1897); LEECH, Trans. Ent. Soc. Lond., p. 438 (1901); MATSUMURA, Cat. Ins. Jap., p. 205 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ., xxii (1), p. 153, pl. IV, f. 32 (1928).

Loc. Distr.: Honshu (Tsuruga).

Gen. Distr.: Korea; Formosa; Japan.

Genus ***Daulia*** WLK.

Daulia WALKER, Cat. Lep. Het. B. M., xix, p. 975 (1859)... ... ... type *afralis* WLK.
Girtexta SWINHOE, Trans. Ent. Soc. Lond., p. 285 (1890) ... ... type *afralis* WLK.

16. ***Daulia afralis*** WLK. (Pl. V, f. 16)

Daulia afralis WALKER, Cat. Lep. Het. B. M., xix, p. 975 (1859); HAMPSON, Faun. Brit. Ind. Moths, iv, p 22) (1896); id., Trans. Ent. Soc. Lond., p. 185 (1897); MEYRICK, Trans. Ent. Soc. Lond., p. 89 (1897); SWINHOE, Cat. Het. Mus. Oxf., ii, p. 443 (1900); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ., xxii (1), p. 154 (1928).

Girtexta argentuosalis SWINHOE, Trans. Ent. Soc. Lond., p. 286 (1890); HAMPSON, Ill. Typ. Sp. Het. B. M., viii, p. 41 (1891).

Loc. Distr.: Honshu (Tokyo).

Gen. Distr.: India Borneo; Burma; Formosa; Japan.

Genus ***Pelena*** MOOR.

Pelena MOORE, Lep. Ceyl., iii, p. 386 (1886) ... ... type *unicolor* MOOR.
Loxocorys MEYRICK, Trans. Ent. Soc. Lond., p. 6 (1894)... ... ... type *sericea* BUTL.

17. ***Pelena sericea*** BUTL. (Pl. V, f. 17)

Deana sericea BUTLER, Ann. Mag. Nat. Hist., (5) iv, p. 451 (1879); PRYER, Trans. Asiat. Soc. Jap., xiii (1), p. 59 (1885).

Loxocorys sericea MEYRICK, Trans. Ent. Soc. Lond., p. 6 (1894).

Luma sericea HAMPSON, Faun. Brit. Ind. Moths, iv, p. 229 (1896); id., Trans. Ent. Soc. Lond., p. 186 (1897); LEECH, Trans. Ent. Soc. Lond., p. 441 (1901); MATSUMURA, Cat. Ins. Jap., p. 205 (1905).

Pelena sericea SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ., xxii (1), p. 157 (1928).

Loc. Distr.: Honshu (Yokohama, Tsuruga); Kiushu (Higo, Satsuma).

Gen. Distr.: China; Formosa; Japan.

Genus ***Bradina*** LED.

Bradina LEDERER, Wien. Ent Mon., vii, p. 424 (1863)... ... ... type *impressalis* LED.
Erilita LEDERER, l. c., p. 426 (1863) ... ... type *modestalis* LED.

Pleonectusa LEDERER, l. c., p. 426 (1863)... ... ... type *admixtalis* WLK.
Physematia LEDERER, l. c., p. 447 (1863)... ... ... type *concordalis* LED.
Trematarcha MEYRICK, Trans. Ent. Soc. Lond., p. 233 (1886) ... ... type *rectiferalis* WLK.
Epichronistis MEYRICK, l. c., p. 260 (1886) ... ... type *acrospila* MEYR.

Key to the Species

a. Postmedial line to the fore wing excurved between veins 5 and 2, then retracted to the lower angle of cell... ... ... *B. lophophoralis* HMPSN.
b. Postmedial line to the fore wing straightly oblique inwardly.
a.1 Fore wing with a whitish dot at the outside of the black discocellular lunule... *B. atopalis* WLK.
b.1 Fore wing lacking a whitish dot at the outside of the black discocellular lunule; postmedial line much oblique in comparison with *B. atopalis* WLK. ... ... *B. megesalis* WLK.
c. Postmedial line to the fore wing erect at costa for some distance, then oblique inwardly ... ... *B. admixtalis* WLK.

18. *Bradina atopalis* WLK. (Pl. V, f. 18)

Botys atopalis WALKER, Cat. Lep. Het. B. M., xviii, p. 664 (1859); PRYER, Trans. Asiat. Soc. Jap., xiii (1), p. 66 (1885).

Botys damasalis WALKER, l. c., p. 668 (1859).

Bradina atopalis HAMPSON, Trans. Ent. Soc. Lond., p. 200 (1897); STAUDINGER & REBEL, Cat. Lep. Palaearc., ii, p. 258 (1901); LEECH, Trans. Ent. Soc. Lond., p. 439 (1901); MATSUMURA, Cat. Ins. Jap., p. 205 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ., xxii (1), p. 161, pl. VI, f. 13 (1928).

Loc. Distr.: Honshu (Tokyo, Yokohama, Kyoto, Fushiki, Kobe, Yoshino); Shikoku (Iyo); Kiushu (Osumi, Satsuma).

Gen. Distr.: China; Korea; Formosa; Japan.

19. *Bradina megesalis* WLK.

Botys megesalis WALKER, Cat. Lep. Het. B. M., xviii, p. 663 (1859).

Bradina megesalis HAMPSON, Trans. Ent. Soc. Lond., p. 200 (1897); LEECH, Trans. Ent. Soc. Lond., p. 439 (1901); MATSUMURA, Cat. Ins. Jap., p. 205 (1905).

Loc. Distr.: Japan.*

Gen. Distr.: China; Japan.

20. *Bradina admixtalis* WLK. (Pl. V, f. 19)

Botys admixtalis WALKER, Cat. Lep. Het. B. M., xviii, p. 665 (1859).

Botys panaeusalis WALKER, l. c., xix, p. 998 (1859).

Pleonectusa tabidalis LEDERER, Wien. Ent. Mon., vii, pp. 426, 481 (1863).

Pleonectusa admixtalis LEDERER, l. c., pp. 426, 481 (1863); WALKER, Cat. Lep. Het. B. M., xxxiv, p. 1480 (1865); MOORE, Lep. Ceyl., iii, p. 286, pl. 180, f. 13 (1885); SWINHOE & COTES, Cat. Moths of Ind., p. 601 (1889); SNELLEN, Trans. Ent. Soc. Lond., p. 624 (1890); HAMPSON, Ill. Typ. Sp. Het. B. M., ix, p. 50 (1893).

*A single female specimen of this species is in the collection of the British Museum, taken in Japan by H. PRYER, but not exactly localized.

Pleonectusa sodalis LEDERER, l. c., pp. 462, 481 (1863); WALKER, l. c., xxxiv, p. 1480 (1865).
Botys leptogastralis WALKER, l. c., p. 1432 (1865).
Pleonectusa pallidalis WARREN, Ann. Mag. Mat. Hist., (6) xvii, p. 147 (1896).
Bradina admixtalis HAMPSON, Faun. Brit. Ind. Moths, iv, p. 227 (1896); id., Trans. Ent. Soc. Lond., p. 201 (1897); MATSUMURA, Ill. Zeit. Ent. Berlin, 5 (24), p. 381 (1900); LEECH, Trans. Ent. Soc. Lond., p. 440 (1901); MATSUMURA, Cat. Ins. Jap., 205 (1905); SUZUKI, List Sp. Hanazono Ent. Labr., p. 25 (1915); MARUMO, Jour. Col. Agr. Tokyo Imp. Univ., viii (11), 187 (1923); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ., xxii (1), p. 161 (1928).
Erilita admixtatis SWINHOE, Cat. Het. Mus. Oxf., ii, p. 446 (1900).

Loc. Distr.: Honshu (Tokyo, Yokohama, Kyoto, Settsu, Yamato); Shikoku (Iyo); Kiushu (Kumamoto, Tanegashima, Higo).

Gen. Distr.: India; Ceylon; Formosa; Japan.

21. *Bradina lophophoralis* HMPSN.

Nacoleia lophophoralis HAMPSON, Ann. Mag. Nat. Hist., (8) ix, p. 435 (1912).
Nacoleia lophophoralis WILEMAN, Trans. Ent. Soc. Lond., p. 379 (1911) non descr.

Loc. Distr.: Honshu (Fushiki, Musashi); Kiushu (Hiuga).

Gen. Distr.: Singapore; Japan.

Genus *Diathrausta* LED.

Diathrausta LEDERER, Wien. Ent. Mon., vii, p. 438 (1863)... ... ... type *profundalis* Led.

22. *Diathrausta brevifascialis* WLMN. (Pl. V, f. 20)

Syngamia brevifascialis WILEMAN, Trans. Ent. Soc. Lond., p. 377 (1911).
Diathrausta picata LEECH (nec BUTL.), Trans. Ent. Soc. Lond., p. 442 (1901).
Diathrausta brevifascialis SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ., xxii (1), p. 163, pl. V, f. 12 (1928).

Loc. Distr.: Hokkaido (Hakodate); Honshu (Yamato, Fushiki); Shikoku (Iyo); Kiushu (Nagasaki, Satsuma, Higo, Tanegashima).

Gen. Distr.: Formosa; Japan.

Genus *Stenia* DUP.

Stenia DUPONCHEL, Cat. Meth. Lep. Eur., p. 201 (1845)... ... ... type *punctalis* S. D.
Arnia GUENÉE, Delt. et Pyr., p. 240 (1854) ... ... type *nervosalis* GN.
Amaurophanes LEDERER, Wien. Ent. Mon., vii, p. 422 (1863) ... ... type *stigmosalis* H.-S.
Sozoa WALKER, Cat. Lep. Het. B. M., xxxiv, p. 1373 (1865)... ... ... type *ianthealis* WLK.
Steniodes SNELLEN, Tijd. v. Ent., xviii, p. 244 (1875) ... ... type *gelliasalis* WLK.
Symmoracma MEYRICK, Trans. Ent. Soc. Lond., p. 469 (1894) ... ... type *spodinopa* MEYR.

23. *Stenia charonialis* WLK. (Pl. V, f. 22)

Asopia charonialis WALKER, Cat. Lep. Het. B. M., xvii, p. 372 (1859).
Stenia ? dissipatalis CHRISTOPH, Bul. Soc. Nat. Mosc., lvi, p. 28 (1881).
Mabra charonialis HAMPSON, Trans. Ent. Soc. Lond., p. 221 (1897); STAUDINGER & REBEL, Cat. Lep. Palaearc., ii, p. 50 (1901); LEECH, Trans. Ent. Soc. Lond., p. 445 (1901); MATSUMURA, Cat. Ins. Jap., p. 206 (1905).

Loc. Distr.: Hokkaido (Sapporo); Honshu (Iwate, Nikko, Tokyo, Kyoto, Tamba, Yokohoma, Yoshino, Shinano).
Gen. Distr.: Amur; China; Korea; Japan.

Genus ***Piletocera*** LED.

Piletocera LEDERER, Wien. Ent. Mon., vii, p. 431 (1863) ... ... type *violalis* LED.
Danaga MOORE, Lep. Ceyl., iii, p. 272 (1885) ... ... type *consisalis* MOOR.
Ptilaeola MEYRICK, Trans. Ent. Soc. Lond., p. 244 (1886)... ... ... type *ulophanes* MEYR.
Erebangela MEYRICK, l. c., p. 245 (1886) ... ... type *melanauges* MEYR.
Diplotyla MEYRICK, l. c., 246 (1886).. ... ... type *ochrosema* MEYR.
Strepsimela MEYRICK, l. c., p. 249 (1886).. ... ... type *xanthosoma* MEYR.
Graphicopoda BUTLER, Trans. Ent. Soc. Lond., p. 421 (1886) ... ... type *melanauges* MEYR.

Key to the Species

a. Fore wing with a whitish postmedial line; hind wing with a whitish medial fascia ... ... *P. sodalis* LEECH
b. Fore wing lacking a whitish postmedial line; hind wing lacking a white medial fascia ... ... *P. aegimiusalis* WLK.

24. ***Piletocera aegimiusalis*** WLK. (Pl. V, f. 23)

Desmia aegimiusalis WALKER, Cat. Lep. Het. B. M., xix, p. 929 (1859).
Desmia collaris WALKER, l. c., xxxiv, p. 1293 (1865).
Desmia cincta WALKER, l. c., p. 1293 (1865).
Desmia mysolalis WALKER, l. c., p. 1294 (1865).
Aediodes mysolalis WALKER, l. c., p. 1299 (1865).
Piletocera ? flavomaculalis PAGENSTECHER, Jahr. Nass. Ver. Nat., xxxvii, p. 279, pl. 7, f. 8 (1884).
Danaga pullatalis SWINHOE, Proc. Zool. Soc. Lond., p. 420 (1889).
Ptilaeola collaris MEYRICK, Trans. Ent. Soc. Lond., p. 467 (1894).
Piletocera aegimiusalis HAMPSON, Faun. Brit. Ind. Moths, iv, p. 236 (1896); id., Trans. Ent. Soc. Lond., p. 212 (1897); SWINHOE, Cat. Hes. Mus. Oxf., ii, p. 449 (1900); LEECH, Trans. Ent. Soc. Lond., p. 443 (1901); MATSUMURA, Cat. Ins. Jap., p. 205 (1905); STRAND, Entom. Mitteil., viii (7/9), p. 131 (1919); MARUMO, Jour. Col. Agr. Tokyo Imp. Univ., viii (11), p. 188 (1923); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ., xxii (1), p. 166 (1928).

Loc. Distr.: Kiushu (Yakushima, Satsuma).
Gen. Distr.: Andamans; India; Borneo; New Guinea; Formosa; Japan.

25. ***Piletocera sodalis*** LEECH (Pl. V, f. 24)

Desmia sodalis LEECH, Entom., xxii, p. 71, pl. 4, f. 6 (1889).
Piletocera sodalis HAMPSON, Trans. Ent. Soc. Lond., p. 213 (1897); LEECH, Trans. Ent. Soc. Lond., p. 442 (1901); HERING, Stett. Ent. Zeit., 64, p. 47 (1903); MATSUMURA, Cat. Ins. Jap., p. 205 (1905); MARUMO, Jour. Col. Agr. Tokyo Imp. Univ., viii (11), p. 188 (1923).

Loc. Distr.: Hokkaido (Tobetsu, Oshima); Honshu (Nikko, Kyoto, Kii); Shikoku (Awa); Kiushu (Satsuma, Higo, Nagasaki, Yakushima, Tanegashima).

Gen. Distr.: Sumatra; China; Japan.

Genus ***Camptomastix*** WARR.

Camptomastix WARREN, Ann. Mag. Nat. Hist., (6) ix, p 439 (1892) ... ... type *hisbonalis* WLK.
Camptomastyx HAMPSON, Faun. Brit. Ind. Moths, iv, p. 238 (1896) ... ... type *hisbonalis* WLK.

26. ***Camptomastix hisbonalis*** WLK. (Pl. V, f. 25)

Botys hisbonalis WALKER, Cat. Lep. Het. B. M., xviii, p. 707 (1859).
Botys pacalis LEECH, Entom., xxii, p. 69, pl. 4, f. 15 (1889).
Diplotyla longipalpis BUTLER, Ill. Typ. Sp. Het. B. M., vii, p. 95, pl. 135, f. 4 (1889).
Camptomastix pacalis WARREN, Ann. Mag. Nat. Hist., (6) ix, p. 439 (1892).
Camptomastyx hisbonalis HAMPSON, Faun. Brit. Ind. Moths, iv, p. 239 (1896); id., Trans. Ent. Soc. Lond., p. 215 (1897); SWINHOE, Cat. Het. Mus. Oxf., ii, p. 451 (1900); LEECH, Trans. Ent. Soc. Lond., p. 443 (1901); MARUMO, Jour. Col. Agr. Tokyo Imp. Univ., viii (11), p. 188 (1923); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ., xxii (1), p. 167, pl. VI, f. 29 (1928).

Loc. Distr.: Kiushu (Tanegashima, Yakushima).
Gen. Distr.: Himalaya; India; Borneo; Japan.

Genus ***Clupeosoma*** SNELL.

Clupeosoma SNELLEN, Tijd. v. Ent., xxiii, p. 203 (1880) ... ... type *pellucidalis* SNELL.
Hydrorybina HAMPSON, Faun. Brit. Ind. Moths, iv, p. 239 (1896) ... ... type *polusalis* WLK.

27. ***Clupeosoma pryeri*** BUTL. (Pl. V, f. 26)

Anemosa pryeri BUTLER, Trans. Ent. Soc. Lond., p. 588 (1881); PRYER, Trans. Asiat. Soc. Jap., xiii (1), p. 67 (1885).
Clupeosoma pryeri HAMPSON, Trans. Ent. Soc. Lond., p. 217 (1897); LEECH, Trans. Ent. Soc. Lond., p. 444 (1901); MATSUMURA, Cat. Ins. Jap., p. 205 (1905).

Loc. Distr.: Honshu (Yokohama, Yoshino, Settsu); Kiushu (Nagasaki, Beppu, Satsuma).
Gen. Distr.: Japan.

Genus ***Perinephela*** HBN.

Perinephela HUEBNER, Verz. Schmett., p. 357 (1826) ... ... type *lancealis* S. D.

28. ***Perinephela lancealis*** SCHIFF. et DEN. (Pl. V, f. 27)

Pyralis lancealis SCHIFFERMÜLLER et DENIS, Syst. Schmett. Wein, p. 121 (1775).
Pyralis glabralis HUEBNER, Smml. Eur. Schmett. Pyr., p. 22, pl. 10, f. 65 (♀), pl. 18, f. 117 (♂) (1796).
Pyralis longalis HAWORTH, Lep. Brit., p. 379 (1811).
Perinephela lancealis HUEBNER, Verz. Schmett., p. 357 (1826); MEYRICK, Trans. Ent. Soc. Lond., p. 445 (1890); id., Brit. Lep., p. 407 (1895); STAUDINGER & REBEL, Cat. Lep. Palaearc., ii, p. 50 (1901).
Perinephela glabralis HUEBNER, Verz. Schmett., p. 357 (1826).

Botys lancealis TREITSCHKE, Schmett. Eur., vii, p. 79 (1829); DUPONCHEL, Hist. Nat. Lep. Fr., viii (2), p. 111, pl. 216, ff. 4, 5; HERRICH-SCHAEFFER, Syst. Schmett. Eur., iv, p. 29 (1848); GUENÉE, Delt. et Pyr., p. 338 (1854).

Psammotis lancealis HAMPSON, Trans. Ent. Soc. Lond., p. 220 (1897); LEECH, Trans. Ent. Soc. Lond., p. 444 (1901); MATSUMURA, Cat. Ins. Jap., 206 (1905).

Loc. Distr.: Hokkaido (Sapporo, Hakodate); Honshu (Yoshino).

Gen. Distr.: Europe; Siberia; China; Japan.

Genus ***Psammotis*** HBN.

Psammotis HUEBNER, Verz. Schmett., p. 350 (1826) ... ... type *pulveralis* HBN.
Lemia DUPONCHEL, Cat. Meth. Lep. Eur., p. 205 (1845) ... ... type *pulveralis* HBN.
Lemiodes GUENÉE, Delt. et Pyr., p. 401 (1854) ... ... type *pulveralis* HBN.

29. ***Psammotis pulveralis*** HBN. (Pl. V, f. 14)

Pyralis pulveralis HUEBNER, Smml. Eur. Schmett. Pyr., p. 29, pl. 17, f. 109 (1796).

Psammotis pulveralis HUEBNER, Verz. Schmett., p. 350 (1826); LEDERER, Wien. Ent. Mon., vii, p. 382 (1863); LEECH, Brit. Pyr., p. 41, pl. 5, f. 7 (1886); MEYRICK, Trans. Ent. Soc. Lond., p. 449 (1890); id., Brit. Lep., p. 411 (1895); HAMPSON, Trans. Ent. Soc. Lond., p. 220 (1897); STAUDINGER & REBEL, Cat. Lep. Palaearc., ii, p. 50 (1901).

Scopula pulveralis TREITSCHKE, Schmett. Eur., vii, p. 63 (1829); id., l. c., x (3), p. 11 (1835); DUPONCHEL, Hist. Nat. Lep. Fr., viii (2), p. 94, pl. 215, f. 4; HERRICH-SCHAEFFER, Syst. Schmett. Eur., iv, p. 27, ff. 17, 18 (1848)

Lemia palveralis DUPONCHEL, Cat. Meth. Lep. Eur., p. 205 (1845).

Lemiodes pulveralis GUENÉE, Delt. et Pyr., p. 401 (1854).

Botys pulveralis HBN. var. *grisealis* STAUDINGER, Hor. Soc. Ent. Russ., vii, p. 193, pl. ii, f. 10 (1870).

Loc. Distr.: Hokkaido (Sapporo).

Gen. Distr.: Europe; Asia; Japan.

Genus ***Mabra*** MOOR.

Mabra MOORE, Lep. Ceyl., iii, p. 280 (1885) ... ... type *eryxalis* WLK.

30. ***Mabra eryxalis*** WLK.

Asopia eryxalis WALKER, Cat. Lep. Het. B. M., xvii, p. 371 (1859).

Botys velatalis SNELLEN, Midd.-Sumat. iv, Lep., p. 63, pl. 5, f. 4 (1880).

Mabra eryxalis MOORE, Lep. Ceyl., iii, p. 280, pl. 179, f. 4 (1885); SWINHOE & COTES, Cat. Moths of Ind., p. 626 (1889); SWINHOE, Trans. Ent. Soc. Lond., p 277 (1890); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 240 (1896); id., Trans. Ent. Soc. Lond., p. 22 (1897); SWINHOE, Cat. Het. Mus. Oxf., ii, p. 451 (1900); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ., xxii (1), p. 168 (1928).

Loc. Distr.: Kiushu (Higo).

Gen. Distr.: Ceylon; Borneo; Philippines; Singapore; Formosa; Japan.

Genus ***Musotima*** MEYR.

Musotima MEYRICK, Trans. Ent. Soc. Lond., p. 288 (1884)... ... ... type *aduncalis* F. R.

31. *Musotima acclaralis* WLK.

Isopteryx acclaralis WALKER. Cat. Lep. Het. B. M., xvii, p. 403 (1859).

Cymoriza acclaralis MOORE, Lep. Ceyl., iii, p. 303 (1886); SWINHOE & COTES, Cat. Moths of Ind., p. 647 (1889).

Musotima aclaralis HAMPSON, Ill. Typ. Sp. Het. B. M., ix, p. 180, pl. 174, f. 24 (1893).

Musotima acclaralis HAMPSON, Faun. Brit. Ind. Moths, iv, p. 200 (1896); id., Trans. Ent. Soc. Lond., p. 155 (1897); MARUMO, Jour. Col. Agr. Tokyo Imp. Univ., viii (11), p. 187 (1923).

Loc. Distr.: Kiushu (Tanegashima, Yakushima).

Gen. Distr.: India; Ceylon; Japan.

Genus ***Epimima*** MEYR.

Epimima MEYRICK, Trans. Ent. Soc. Lond., p. 235 (1886) ... ... type *trebiusalis* WLK.
Bradinomorpha MATSUMURA, Inj. Ins. Jap.,* p. 514 (1920) non descr.

Key to the Species

a. Terminal areas to both wings yellowish, tinged with pale brown.
  a.1 Postmedial line to the fore wing very highly excurved between veins 6 and 2; the yellowish space between the postmedial line and the yellowish brown terminal area broader at costa ... ... *E. exigua* BUTL.
  b.1 Postmedial line to the fore wing nearly erect from costa to vein 2, or very slighty excurved in the middle; the yellowish space between the postmedial line and the yellowish brown terminal area much narrower in comparison with *E. exigua* BUTL ... ... *E. nawae* MATS.
b. Terminal areas to both wings fuscous ... ... *E. daisensis* SHIB. (sp. nov.)

32. *Epimima nawae* MATS. (Pl. V, f. 21)

Bradinomorpha nawae MATSUMURA, Inj. Ins. Jap.,* p. 514, t. f. 188 (1920).

Badina admixtalis MATSUMURA (nec WLK.), Oyo-konchugaku,** p. 549, pl. 21, f. 10 (1920).

Loc. Distr.: Honshu; Shikoku; Kiushu.

Gen. Distr.: Japan.

33. *Epimima exigua* BUTL.

Samea exigua BUTLER, Ann. Mag. Nat. Hist., (5) iv, p. 453 (1879).

Marasmia exigua HAMPSON, Proc. Zool. Soc. Lond., p. 639 (1898); LEECH, Trans. Ent. Soc. Lond., p. 453 (1901); MATSUMURA, Cat. Ins. Jap., p. 208 (1905).

Loc. Distr.: Honshu (Yokohama).

Gen. Distr.: Japan.

34. *Epimima daisensis* sp. nov. (Pl. V, f. 28)

♂. Palpi fuscous, white beneath. Head with the antennae fuscous.

* Dainippon Gaichuzensho; ** Applied Entomology.

Thorax? (unable to observe, being too worn). Abdomen whitish, slightly tinged with yellow; a pair of black spot at the dorsum near the terminal segment. Both wings with each the basal half whitish, tinged with pale yellowish, the outer half being fuscous. Fore wing with a tuft of greyish scales on the upperside below the middle of costa; an antemedial line fuscous and excurved; postmedial line fuscous, almost straight from costa to vein 2, then retracted below the lower angle of cell, then straight again.

Hind wing with medial and postmedial lines fuscous, the latter terminating at vein 2. Cilia to both wings fuscous, at the bases and outer halves paler. Pectus and legs whitish.

Expanse of wings 17 mm.

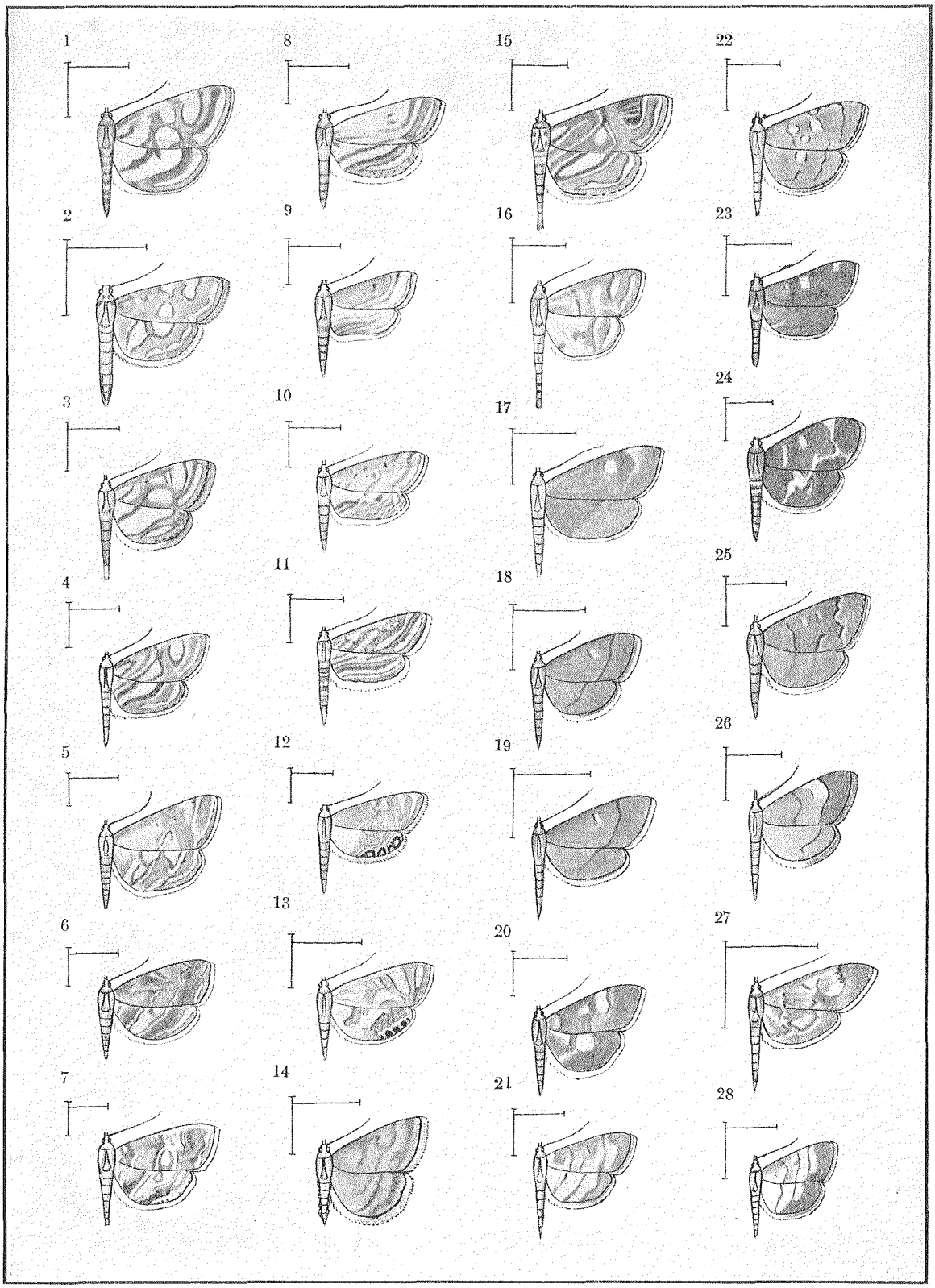
A single male specimen was obtained at the Mt. Daisen (c. 1,800 m. high) in the Prov. Hoki,on the 16th of August, 1922, by Prof. Dr. S. MATSUMURA. Type in Coll. Ent. Mus. (Sapporo).

Habitat: Honshu (Mt. Daisen).

P. S.: The plate and its explanation regarding to this paper may appear in the next number of this Volume.

Explanation of Plate V

1. *Nymphula stagnata* DON.
2. *N. interruptalis* PRYER
3. *N. corculina* BUTL.
4. *N. bifurcalis* WLMN.
5. *N. fengwhanalis* PRYER
6. *N. turbata* BUTL.
7. *N. enixalis* SWINH.
8. *N. vittalis* BREM.
9. *N. ussuriensis* REBEL
10. *N. takamukui* SHIB. (sp. nov.)
11. *N. fluctuosalis* ZELL.
12. *Cataclysta blandialis* WLK.
13. *C. midas* BUTL.
14. *Psammotis pulveralis* HBN.
15. *Parthenodes prodigalis* LEECH
16. *Daulia afralis* WLK.
17. *Pelena sericea* BUTL.
18. *Bradina atopalis* WLK.
19. *B. admixtalis* WLK.
20. *Diathrausta brevifascialis* WLMN.
21. *Epimima nawae* MATS.
22. *Stenia charonialis* WLK.
23. *Piletocera aegimiusalis* WLK.
24. *P. sodalis* LEECH
25. *Camptomastix hisbonalis* WLK.
26. *Clupeosoma pryeri* EUTL.
27. *Perinephela lancealis* SCHIFF. et DEN.
28. *Epimima daisensis* SHIB. (sp. nov.)



Shibuya del.