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# ON THE KNOWN AND UNRECORDED SPECIES OF THE JAPANESE PYRAUSTINÆ (LEPID.)

BY

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The object of this paper is to give a systematic account of the species belonging to the *Pyraustinae*, a subfamily of *Pyralidae*, *Lepidoptera*, which have hitherto been described from Japan, or recorded as occurring in this country. The preliminary account of the *Pyraustinae* of Japan was given by C. STOLL in his *Papillons Exotiques*, vol. iv, 1782, and in this publication he described a new species *Phalaena (Pyralis) fascialis* STOLL (= *Hymenia recurvalis* FABR.). In 1860, MOTSCHULSKY in *Etud. Entom.* vol. ix, enumerated a new genus *Nomis* (= *Udea*), two new species *Sylepta quadrimaculalis*, *Udea albopedalis*, the latter is the genotype of *Nomis*, and an unrecorded species *Pyrausta sambucalis* SCHIFF. et DEN. In regard to *Sylepta quadrimaculalis* MOTSCH., this species was originally placed under genus *Botyodes*, and with its specific name *Sylepta quadrimaculalis* was already given by KOLLER for a *Pyralid*-moth in 1844, while G. F. HAMPSON elected a new name *Sylepta inferior* HMPSON. for *S. quadrimaculalis* MOTSCH. In 1863, LEDERER in *Wien. Ent. Mon.* vii, recorded *Margaronia perspectalis* WLK. from this country as *Phacellura advenalis* LED. In 1866<sup>1)</sup>, MOTSCHULSKY added three more unrecorded species to the *Pyralid*-fauna of Japan, viz., *Diasemia litterata* SCOP. (as *Botys literalis* SCHIFF. et DEN.), *Udea rubriginalis* HBN. and *Paratalanta ussurialis* BREM.

In the *Cist. Ent.* ii, 1877, PRYER recorded *Udea minnehaha* PRYER as occurring in Japan. BUTLER, in the *Ill. Typ. Sp. Het. B. M.* vol. ii, 1878, described the following eight new species from this country:

1. *Dichocrocis chlorophanta* sp. n.
2. *Hymenia erebina* sp. n. (= *Sylepta luctuosalis* GN.)
3. *Glyphodes neomena* sp. n. (= *Margaronia nigropunctalis* BREM.)
4. *G. sylpharis* sp. n. (= *M. pyloalis* WLK.)
5. *Botys jessica* sp. n. (= *Udea pandalis* HBN.)

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1) *Bul. Soc. Nat. Mosc.*, xxxix (1).

6. *Botys protensa* sp. n. (= *Udea pandalis* HBN.)
7. *Udea aurorina* sp. n.
8. *Tionea sodalis* sp. n. (= *U. forticalis* LINN.)

The next year, vol. iii of the preceding publication came out, in which BUTLER again described the following eighteen new species:

1. *Zebronia argyria* sp. n. (= *Pycnarmon lactiferalis* WLK.)
2. *Pycnarmon pantherata* sp. n.
3. *Pagyda arbiter* sp. n.
4. *Samea usitata* sp. n. (= *Bocchoris aptalis* WLK.)
5. *Desmia stellaris* sp. n. (= *Bocchoris infersalis* ZELL.)
6. *Tyspanodes striata* sp. n.
7. *Lamprosema misera* sp. n.
8. *Goniorhynchus butyrosa* sp. n.
9. *Sylepta tricolor* sp. n.
10. *Botys aurea* sp. n. (= *Sylepta balteata* FABR.)
11. *Sylepta magna* sp. n.
12. *Crocidephora nycterina* sp. n.
13. *Udea inornata* sp. n.
14. *Scopula testacea* sp. n. (= *Udea ferrugalis* HBN.)
15. *Pyrausta gracilis* sp. n.
16. *P. limbata* sp. n.
17. *P. astrifera* sp. n.
18. *P. assimilis* sp. n.

In 1879,<sup>2)</sup> BUTLER described four more species as new from Japan as follows:

1. *Lamprosema commixta* sp. n.
2. *Margaronia inusitata* sp. n. (= *Margaronia annulata* FABR.)
3. *M. pryeri* sp. n.
4. *Uresiphita pruipennis* sp. n.

In 1881,<sup>3)</sup> the following six new species were described from Japan by BUTLER:

1. *Pagyda quadrilineata* sp. n. (= *Pagyda amphisalis* WLK.)
2. *Sylepta insignis* sp. n.
3. *Udea fentoni* sp. n.
4. *Ennychia diversa* sp. n. (= *Pyrausta luctualis* HBN.)
5. *Pyrausta chrysis* sp. n.
6. *P. unipunctata* sp. n.

In 1885,<sup>4)</sup> PRYER recorded *Dichocrocis punctiferalis* GN. and *Margaronia quadrimaculalis* BREM. et GREY as occurring in Japan. In 1889,<sup>5)</sup> LEECH

2) Ann. Mag. Nat. Hist., (5) iv.

4) Trans. Asiat. Soc. Jap., xiii.

3) Trans. Ent. Soc. Lond.

5) Entomologist, xxii.

described the following twelve new species and the same time he newly recorded *Heliothela nigralbata* LEECH from Japan:

1. *Lamprosema fumidalis* sp. n.
2. *Botyodes principalis* sp. n.
3. *Sylepta segnalis* sp. n.
4. *S. maculalis* sp. n.
5. *S. fuscomarginalis* sp. n.
6. *Margaronia bipunctalis* sp. n.
7. *Botys mandarinialis* sp. n. (= *Crocidophora evenoralis* WLK.)
8. *Crocidophora aurealis* sp. n.
9. *Loxostege inornata* sp. n.
10. *Udea lugubralis* sp. n.
11. *Botys lacrimalis* sp. n. (= *Pyrausta coclesalis* WLK.)
12. *Pyrausta genialis* sp. n. (♀ type only)

In 1892,<sup>6)</sup> WARREN described a new genus *Prionopaltis* with the following nine new species:

1. *Lamprosema indistincta* sp. n.
2. *Evergestis junctalis* sp. n.
3. *Psara fuscescens* sp. n.
4. *P. rudis* sp. n.
5. *Prionopaltis consocia* sp. n.
6. *Pyrausta suffusalis* sp. n.
7. *P. latipennis* sp. n.
8. *P. ocellaris* sp. n.
9. *Micractis sanguinealis* sp. n. (= *Pyrausta nubilalis* HBN.)

MEYRICK, in his *British Lepidoptera*, 1895, gave Japan as a locality of *Udea verbascalis* SCHIFF. et DEN. In 1895,<sup>7)</sup> WARREN described a new species *Udea auratalis* WARR. from this country. In the *Faun. Brit. Ind. Moths*, vol. iv, 1896, HAMPSON newly recorded the following nine species:

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| <ol style="list-style-type: none"> <li>1. <i>Dichocrocis surusalis</i> WLK.</li> <li>2. <i>Sylepta pernitescens</i> SWINH.</li> <li>3. <i>S. quadrimaculalis</i> KLLR.</li> <li>4. <i>Thliptoceras variabilis</i> SWINH.</li> <li>5. <i>Maruca testulalis</i> GEYER</li> </ol> | <ol style="list-style-type: none"> <li>6. <i>Psara licarsisalis</i> WLK.</li> <li>7. <i>Loxostege verticalis</i> LINN.</li> <li>8. <i>L. pelealis</i> SCHIFF. et DEN.</li> <li>9. <i>Pyrausta damoalis</i> WLK.</li> </ol> |
|--|--|

In 1898,<sup>8)</sup> HAMPSON described a new species *Goniorhynchus exemplaris* HMPSN. (= *Goniorhynchus marginalis* WARR.), and also recorded three unrecorded species *Agrotera nemoralis* SCOP., *Cnaphalocrocis medinalis* GN. and *Sylepta derogata* FABR. The following year,<sup>9)</sup> HAMPSON recorded five more species, which were, so far as I am aware, not recorded from this country

6) *Ann. Mag. Nat. Hist.*, (6) ix.

8) *Proc. Zool. Soc. Lond.*

7) *Ann. Mag. Nat. Hist.*, (6) xvi.

9) *Proc. Zool. Soc. Lond.*

before that time, they are as follows:

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| 1. <i>Crocidophora heterogenalis</i> BREM. | 4. <i>Pyrausta moderatalis</i> CHRIST. |
| 2. <i>Calamochrous acutellus</i> EVM.      | 5. <i>P. memnialis</i> WLK.            |
| 3. <i>Udea orbicentralis</i> CHRIST.       |  |

In 1900,<sup>10)</sup> a new species *Pyrausta discimaculalis* HMPSN. was described, the type specimen of which was obtained in Japan. In 1901,<sup>11)</sup> Prof. S. MATSUMURA gave Japan as a locality of *Margaronia indica* SAUND. In the same year,<sup>12)</sup> HERING enumerated a new species *Pagyda quinquelineata* HERING and the following six unrecorded species from Japan:

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|---|--|
| 1. <i>Eurrhyarodes bracteolalis</i> ZELL. | 4. <i>Lamprosema tristrialis</i> BREM. |
| 2. <i>Agrotera effertalis</i> WLK.        | 5. <i>L. indicata</i> FAER.            |
| 3. <i>Phostria crithonalis</i> WLK.       | 6. <i>Sylepta satana</i> HERING        |

SOUTH also described three new species *Lamprosema satsumalis*, *Udea pseudocrocealis* and *Pyrausta vicinalis* from this country in 1901<sup>13)</sup>. In the same publication,<sup>14)</sup> LEECH recorded the following twenty three unrecorded species:

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| 1. <i>Bocchoris onychinalis</i> GN.                                    | 12. <i>Nomophila noctuella</i> SCHIFF. et DEN. |
| 2. <i>B. adipalis</i> LED.   | 13. <i>Psara marginalis</i> WARR.              |
| 3. <i>Phostria noctescens</i> MOOR.                                    | 14. <i>Loxostege umbrosalis</i> WARR.          |
| 4. <i>Lamprosema chrysorycta</i> MEYR.                                 | 15. <i>Diasemia accalis</i> WLK.               |
| 5. <i>L. tampiusalis</i> WLK.  | 16. <i>Antigastra catalaunalis</i> DUP.        |
| 6. <i>L. similis</i> MOOR.   | 17. <i>Udea albifimbrialis</i> WLK.            |
| 7. <i>L. pallidinotalis</i> HMPSN.                                     | 18. <i>Pyrausta diniasalis</i> WLK.            |
| 8. <i>Sylepta ruralis</i> SCOP.<br>(as <i>Sylepta sabiusalis</i> WLK.) | 19. <i>P. flavalis</i> SCHIFF. et DEN.         |
| 9. <i>S. ultimalis</i> WLK.  | 20. <i>P. pullatalis</i> CHRIST.               |
| 10. <i>S. deficiens</i> MOOR.  | 21. <i>P. phoenicealis</i> HBN.                |
| 11. <i>Oebia undalis</i> FABR.   | 22. <i>P. sanguinalis</i> LINN.                |
|  | 23. <i>P. sikkima</i> MOOR.                    |

At the same time he wrongly recorded the following three species as occurring in this country:

1. *Entephria aeriferalis* LEECH (nec MOOR.) = *Pycnarmon lactiferalis* WLK.
2. *Pagyda amphisalis* LEECH (nec WLK.) = *Pagyda quinquelineata* HERING
3. *Nosophora semitritalis* LEECH (nec LED.) = *Nosophara semitritalis* LED.  
var. *orbicularis* SHIB.

In 1903,<sup>15)</sup> HAMPSON added an unrecorded species *Metasia coniotalis* HMPSN. to the *Pyralid*-fauna of Japan. In the Proc. U. S. Nat. Mus. vol.

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|----------------------------|--------------------------------------|
| 10) Trans. Ent. Soc. Lond. | 11) Ill. Zeit. Ent. Berl., 6 (2).    |
| 12) Stett. Ent. Zeit., 62. | 13) Trans. Ent. Soc. Lond.           |
| 14) Trans. Ent. Soc. Lond. | 15) Jour. Bomb. Nat. Hist. Soc., xv. |

xxviii, 1905, DYAR described a new species *Pyrausta polygoni* DYAR from Japan, which is, so far as my studies go, identical with *Pyrausta nubilalis* HBN.

In 1911,<sup>16)</sup> WILEMAN enumerated the following eleven new species and fifteen unrecorded species:

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| 1. <i>Agrotera posticalis</i> sp. n. (= <i>Agrotera nemoralis</i> SCOP.)     |  |
| 2. <i>Pagyda ochrealis</i> sp. n. (= subsp. of <i>Pagyda salvalis</i> WLK.)  |  |
| 3. <i>Marasmia limbata</i> sp. n.  |  |
| 4. <i>Glyphodes albimanalis</i> sp. n. (= <i>Bocchoris telphusais</i> WLK.)  |  |
| 5. <i>Phostria munitalis</i> sp. n.  |  |
| 6. <i>Lamprosema catenalis</i> sp. n.  |  |
| 7. <i>Omphisa plagialis</i> sp. n.   |  |
| 8. <i>Udea stigmatalis</i> sp. n.  |  |
| 9. <i>Pionea exiguialis</i> sp. n. (= <i>Pyrausta accolalis</i> ZELL.)       |  |
| 10. <i>Pyrausta andrewsalis</i> sp. n.                                       |  |
| 11. <i>Phlyctaenodes ochrealis</i> sp. n. (= <i>Pyrausta celatalis</i> WLK.) |  |
| 12. <i>Marasmia vinialis</i> WLK.  | 20. <i>Crocidophora flaviciliata</i> HMPSON. |
| 13. <i>Lamprosema maculalis</i> SOUTH  | (as <i>Circobotys aurimargo</i> WARR.)       |
| 14. <i>Ceratarcha umbrosa</i> SWINH.   | 21. <i>Udea pruinialis</i> SCHIFF. et DEN.   |
| 15. <i>Margaronia glauculalis</i> GN.  | 22. <i>U. tritalis</i> CHRIST.               |
| 16. <i>Polythlipta liquidalis</i> LEECH                                      | 23. <i>U. thyalis</i> WLK.                   |
| 17. <i>Ischnurges octoguttalis</i> F. et R.                                  | 24. <i>Pyrausta citialis</i> HBN.            |
| 18. <i>Evergestis extimalis</i> SCOP.  | 25. <i>P. hyalodiscalis</i> WARR.            |
| 19. <i>Loxostege sticticalis</i> LINN.                                       | 26. <i>P. cespitalis</i> SCHIFF. et DEN.     |

In the same publication, WILEMAN also gave Japan as a locality of *Lygropia euryclealis* WLK., however, the specimen determined as the preceding species by him seems to be apparently identical with *Goniorhynchus marginalis* WARR. In 1913,<sup>17)</sup> HAMPSON enumerated two new species *Phlyctaenodes uniformis*, *Pyrausta phoenizonalis* (= *Pyrausta andrewsalis* WLMN.), with an unrecorded species *Pyrausta perzulgalis* HMPSON. from this country.

In 1923,<sup>18)</sup> Dr. N. MARUMO recorded *Parudea fimbriata* SWINH. as occurring in Japan. In 1927,<sup>19)</sup> Prof. S. MATSUMURA described a new species *Nacoleia sounkeana* MATS. which is, so far as my investigations go, identical with *Sylepta deficiens* MOOR. In the following year,<sup>20)</sup> I gave Japan as a locality of *Margaronia actorionalis* WLK. which was, I am aware, not recorded as occurring in Japan before that time.

It can now be seen that one hundred fifty two species, one subspecies, with one variety have hitherto been described or recorded from Japan, and in this paper I have also dealt with the following nine more species which

16) Trans. Ent. Soc. Lond.

17) Ann. Mag. Nat. Hist., (6)xi, & (6)xii.

18) Jour. Col. Agr., Tokyo Imp. Univ., viii (11).

19) Ins. Mats., I (3).

20) Jour. Facul. Agr., Hokkaido Imp. Univ., xxii(1).

are, as far as my studies go, new to the *Pyralid*-fauna of Japan, thereby making known to us as existing in this country up to the present time, one hundred sixty one species, one subspecies with one variety in all.

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|---|---|
| 1. <i>Pycnarmon cribrata</i> FABR.        | 6. <i>Udea stachydalis</i> GERM.            |
| 2. <i>Lamprosema invalidalis</i> SOUTH    | 7. <i>Pyrausta fuscalis</i> SCHIFF. et DEN. |
| 3. <i>Sylepta taiwanalis</i> SHIB.        | 8. <i>P. tithonialis</i> ZELL.              |
| 4. <i>Lygropia pollisalis</i> WLK.        | 9. <i>P. aurata</i> SCOP.                   |
| 5. <i>Hyalobathra contubernalis</i> MOOR. |   |

Finally I wish to tender my cordial thanks to Prof. S. MATSUMURA for his kindness in giving me the free done of the use of the collection in the Entomological Museum of the Hokkaido Imperial University.

## ORDER LEPIDOPTERA

Family *Pyralidae*

Subfamily *Pyraustinae*

### Synopsis of Genera

- A. Palpi upturned ..... (a-a')
- A.' Palpi obliquely upturned, the 3rd joint well developed and obtuse ...  
..... OEBIA
- A.'' Palpi porrect ..... (p-p')
- a. Palpi with the 3rd joint long, naked and acuminate ..... (b-b''')\*
- a.' Palpi with the 3rd joint short, naked and obtuse ..... (c-c')
- b. Palpi with the 2nd joint short and not reaching the vertex of head ...  
..... HYMENIA
- b.' Palpi with the 2nd joint reaching the vertex of head ..... PYCNARMON
- b.'' Palpi with a triangular tuft in front of 3rd joint ..... (g-g')
- b''' Palpi with the 2nd and 3rd joints conically scaled and tapering to  
apices ..... (m-m')
- b'''' Palpi with the 3rd joint porrect ..... (o-o')
- c. Maxillary palpi dilated with scales ..... EURRHYPARODES
- c.' Maxillary palpi filiform ..... (d-d'')\*\*
- d. Palpi with the 2nd joint moderately and evenly scaled in front (e-e')
- d.' Palpi with the 2nd joint broadly rounded with scales in front .....  
..... BOTYODES
- d.'' Palpi with the 2nd joint broadly angled with scales in front ... (f-f')

\*(b-b''') indicates (b-b'-b''-b''''-b''''').

\*\* (d-d'') indicates (d-d'-d'').

- e. Fore wing with vein 7 nearly straight and well separated from 8, 9  
..... LYGROPIA
- e./ Fore wing with vein 7 curved and approximated to 8, 9 ... SYLEPTA
- f. Fore wing with vein 7 curved and approximated to 8, 9, the outer  
margin excised below apex ..... CERATARCHA
- f./ Fore wing with vein 7 straight and well separated from 8, 9, the outer  
margin evenly curved ..... GONIORHYNCHUS
- g. Palpi with a tuft on the 3rd joint long, pointed and extending to the  
front of the broadly fringed 2nd joint..... PAGYDA
- g./ Palpi with the tuft on 3rd joint short ..... (h-h')
- h. Palpi with the 3rd joint short and blunt ..... (i-i')
- h./ Palpi with the 3rd joint long and acuminate ..... NOSOPHORA
- i. Palpi with the triangular 3rd joint set on at an angle ..... AGROTERA
- i./ Palpi with the 3rd joint not set on at an angle ..... (j-j')
- j. Hind wing with vein 7 anastomosing with 8 almost to apex ... (k-k')
- j'. Hind wing with vein 7 anastomosing with 8 to about three-fourths of  
wing ..... (l-l')
- k. Fore wing with veins 10, 11 stalked ..... CNAPHALOCROCIS
- k'. Fore wing with vein 10 free and closely approximated to 8, 9 .....  
..... MARASMIA
- l. Frons flat and oblique ..... BOCCHORIS
- l./ Frons rounded ..... LAMPROSEMA
- m. Frons rounded and not prominent ..... (n-n')
- m./ Frons flat and oblique ..... TYSpanODES
- n. Fore wing with vein 7 curved and approximated to 8, 9 for about one-  
third length ..... PHOSTRIA
- n./ Fore wing with vein 7 nearly straight and well separated from 8, 9  
..... DICHOCROCIS
- o. Maxillary palpi strongly dilated with scales ..... MARGARONIA
- o./ Maxillary palpi filiform ..... POLYTHLIPTA
- p. Palpi with the 3rd joint hidden in hair ..... (q-q')
- p./ Palpi with the 3rd joint naked ..... (V-V')
- q. Palpi rostriform, the 3rd joint downcurved ..... (r-r')
- q./ Palpi straight and triangularly scaled ..... (s-s'')\*
- r. Hind wing with veins 4, 5 approximated for a short distance .....  
..... URESIPHITA
- r./ Hind wing with veins 4,5 not approximated towards origin .....

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\*(s-s'') indicates (s-s'-s'').



- ..... CALAMOCHROUS
- s. Frons rounded or flat and not prominent ..... (t-t')
- s.' Frons with a pointed conical prominence ..... LOXOSTEGE
- s.'' Frons with a rounded prominence ..... METASIA
- t. Antennae from one to one and a half times length of fore wing .....  
..... MARUCA
- t.' Antennae shorter than the fore wing ..... (u-u')
- u. Maxillary palpi strongly dilated with scales at extremities ... (v-v')
- u.' Maxillary palpi filiform or hardly dilated with scales at extremities ...  
..... (x-x')
- v. Antennae with the shaft annulated; hind wing with outer margin somewhat excised below apex ..... DIASEMIA
- v.' Antennae with the shaft not annulated ..... (w-w')
- w. Legs very long and slender; fore femora and tibiae fringed in the male with long hair ..... ANTIGASTRA
- w.' Legs of moderate length ..... UDEA
- x. Hind wing with veins 4, 5 approximated for a short distance, 3 separate ..... (y-y')
- x.' Hind wing with veins 4, 5 not approximated towards origin ... (II-II')
- y. Fore wing subtriangular, vein 3 from close to angle of cell ... (z-z')
- y.' Fore wing long and narrow, with vein 3 from well before angle of cell ..... NOMOPHILA
- z. Frons flat and oblique ..... (I-I')
- z.' Frons rounded ..... PSARA
- I. Hind margin of fore wing not fringed with upturned hair along its whole length ..... CROCIDOPHORA
- I.' Hind margin of fore wing heavily fringed with upturned hair along its whole length ..... PARUDEA
- II. Antennae with the shaft annulated with rings at the joint .....  
..... ISCHNURGES
- II.' Antennae with the shaft smooth and ciliated ..... (III-III')
- III. Hind tibiae with the spurs all long and equal ..... HYALOBATHRA
- III.' Hind tibiae with the outer medial spur not more than two-thirds length of inner ..... (IV-IV')
- IV. Fore wing with vein 7 curved and approximated to 8, 9 .....  
..... PARATALANTA
- IV.' Fore wing with vein 7 straight and well separated from 8, 9 .....  
..... PYRAUSTA
- V. Palpi with the 2nd joint fringed above and below with hair .....

- ..... THLIPTOCERAS  
 V.' Palpi with the 2nd joint moderately fringed with hair below towards  
 extremities ..... (VI-VI')  
 VI. Maxillary palpi triangularly scaled ..... HELIOTHELA  
 VI.' Maxillary palpi long and filiform ..... (VII-VII')  
 VII. Both wings with the outer margin excurved at middle; build stout  
 ..... OMPHISA  
 VII.' Both wings with the outer margin evenly curved; build slight ....  
 ..... EVERGESTIS

Genus *Pycnarmon* LED.

- Pycnarmon* LEDERER, Wien. Ent. Mon. vii, p. 441 (1863) ..... type *jaguaralis* GN.  
*Entephria* LEDERER, l. c. p. 482 (1863) praeocc. .... type *praeruptalis* LED.  
*Aripana* MOORE, Lep. Ceyl. iii, p. 312 (1886) ..... type *cribrata* FABR.  
*Satanastra* MEYRICK, Trans. Ent. Soc. Lond. p. 442 (1890). .... type *lactiferalis* WLK.  
*Eutrichotis* SWINHOE, Cat. Het. Mus. Oxf. ii, p. 453 (1900) ..... type *abraxalis* WLK.  
*Pyralocymatophora* STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), pp.  
 34, 35 (1918) ..... type *cribrata* FABR.

Synopsis of Species

- a. Wings whitish ..... (b-b')  
 a.' Wings yellowish brown ..... *P. pantherata* BUTL.  
 b. Fore wing with numerous short black striae on costa... *P. cribrata* FABR.  
 b.' Fore wing lacking short black striae on costa .... *P. lactiferalis* WLK.

1. *Pycnarmon cribrata* FABR.

*Pha'aena cribrata* FABRICIUS, Ent. Syst. iii (2), 215 (1794); HAMPSON, Proc. Zool. Soc. Lond. p. 619 (1898) (*Entephria*); STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2) p. 37 (1918); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 175, pl. vii, f. 1 (1928).

*Spilomela caberatis* GUENÉE, Delt. et Pyr. p. 284 (1854); LEDERER, Wien. Ent. Mon. vii, p. 443 (1863) (*Conchylodes*); SNELLEN, Tijd. v. Ent. xxvii, p. 44 (1884); MEYRICK, Trans. Ent. Soc. Lond. p. 257 (1886); MOORE, Lep. Ceyl. iii, p. 312 (1886) (*Aripana*); SWINHOE & COTES, Cat. Moths of Ind. p. 635 (1889); HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 38 (1891); id., l. c. ix, p. 48 (1893); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 453 (1900); WALKER, Cat. Lep. Het. B. M. xvii, p. 482 (1859) (*Zebronia*); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 258 (1896) (*Pycnarmon*); LEECH, Trans. Ent. Soc. Lond. p. 447 (1901) (*Entephria*); MATSUMURA, Cat. Ins. Jap. p. 206 (1905).

*Zebronia abdicalis* WALKER, l. c. p. 480 (1859); WALLACE & MOORE, Proc. Zool. Soc. Lond. p. 364 (1866); BUTLER, Proc. Zool. Soc. Lond. p. 684 (1880); SWINHOE, Proc. Zool. Soc. Lond. p. 870 (1885); HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 33 (1891) (*Aripana*); id., l. c. ix,

p. 48 (1893); MEYRICK, Trans. Ent. Soc. Lond. p. 459 (1894); SWINHOB, Cat. Het. Mus. Oxf. ii, p. 453 (1900).

*Conchylodes corycialis* SNELLEN, Tijd. v. Ent. xxiii, p. 237 (1880); id., l. c. xxvii, p. 44, pl. 4, f. 6 (1884).

*Conchylodes privialis* SNELLEN, l. c. 43, p. 282, pl. 16, f. 1 (1901).

This species has hitherto not been recorded as occurring in Japan.

A single male specimen was obtained in Kyoto by M. SUZUKI (date unknown), and is now in the collection of the Entomological Museum of the Hokkaido Imperial University. Two specimens are preserved in A. E. WILEMAN's private collection, taken in Yoshino on the 15th of June and 6th of July, 1901.

**Loc. Distr.:** Yoshino (WILEMAN); Kyoto (SUZUKI).

**Gen. Distr.:** Africa; India; Singapore; China; Formosa; Japan.

## 2. *Pycnarmon lactiferalis* Wlk.

*Zebronia ? lactiferalis* WALKER, Cat. Lep. Het. B. M. xvii, p. 480 (1859); MOORE, Lep. Ceyl. iii, p. 313 (1886) (*Aripana*); SWINHOB & COTES, Cat. Moths of Ind. p. 635 (1889); SWINHOB, Trans. Ent. Soc. Lond. p. 280 (1890); id., Cat. Het. Mus. Oxf. ii, p. 454 (1900); HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 38 (1891); id., l. c. ix, pp. 48, 170, pl. clxxiii, f. 28 (1893); MEYRICK, Trans. Ent. Soc. Lond. p. 459 (1894); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 259 (1896) (*Pycnarmon*); id., Proc. Zool. Soc. Lond. p. 620 (1898) (*Entephria*); LEECH, Trans. Ent. Soc. Lond. p. 447 (1901); MATSUMURA, Cat. Ins. Jap. p. 206 (1905).

*Zebronia argyria* BUTLER, Ill. Typ. Sp. Het. B. M. iii, p. 76, pl. lix, f. 9 (1879).

*Conchylodes paucipunctalis* SNELLEN, Trans. Ent. Soc. Lond. p. 633, pl. xix, f. 2 (1890).

*Entephria acriferalis* LEECH (nec MOORE), Trans. Ent. Soc. Lond. p. 447 (1901).

The type specimen of *Zebronia argyria* BUTL. was taken in Japan (Hakodate) by WHITELY. Specimens from Satsuma, Fusan and Gensan collected and determined by LEECH as *Entephria acriferalis* MOOR. are identical with *Pycnarmon lactiferalis* Wlk.

**Loc. Distr.:** Sapporo (MATSUMURA); Hakodate (WHITELY); Nikko (MARRIES); Tokyo (HIRAYAMA); Yoshino (WILEMAN); Daisen (MATSUMURA); Iyo (ARAKAWA); Hyuga (WILEMAN); Satsuma (LEECH).

**Gen. Distr.:** Ceylon; Borneo; Burma; Himalaya; China; Korea; Japan.

## 3. *Pycnarmon pantherata* Butl.

*Crocidophora pantherata* BUTLER, Ill. Typ. Sp. Het. B. M. ii, p. 59, pl. xxxix, f. 10 (1878); HAMPSON, Proc. Zool. Soc. Lond. p. 620 (1898) (*Entephria*); LEECH, Trans. Ent. Soc. Lond. p. 448 (1901); MATSUMURA, Cat. Ins. Jap. p. 207 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 177, pl. vii, f. 11 (1928) (*Pycnarmon*).

This species was described from Japan. The type specimen was col-

lected in Yokohama by F. M. JONAS.

**Loc. Distr.:** Sapporo (MATSUMURA); Nikko (WILEMAN); Tokyo (FENTON); Yokohama (JONAS, WILEMAN); Yoshino (WILEMAN); Chichibu (UCHIDA); Settsu (WILEMAN); Shimonoseki (LEECH); Sagami (WILEMAN); Nagasaki (LEECH); Satsuma (LEECH).

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

#### Genus *Hymenia* HBN.

*Hymenia* HUEBNER, Verz. Schmett. p. 360 (1826) ..... type *perspectalis* HBN.  
*Zinckenia* ZELLER, Lep. Microp. Caffr. p. 55 (1852) ..... type *perspectalis* HBN.  
*Spoladea* GUENÉE, Delt. et Pyr. p. 224 (1854) ..... type *recurvalis* FABR.

#### 4. *Hymenia recurvalis* FABR.

*Phalaena recurvalis* FABRICIUS, Syst. Ent. p. 644 (1775); id., Ent. Syst. iii (2), p. 237 (1794); id., Mant. Ins. ii, 222 (1787); ZELLER, Lep. Microp. Caffr. p. 55 (1852) (*Zinckenia*); LEDERER, Wien. Ent. Mon. vii, p. 437 (1863); WALKER, Cat. Lep. Het. B. M. xxxiv, p. 1321 (1865); SNELLEN, Tijds. v. Ent. xv, p. 95 (1872); MEYRICK, Trans. Ent. Soc. Lond. p. 308 (1884); id., l. c. p. 217 (1888); SNELLEN, Trans. Ent. Soc. Lond. p. 629 (1890); MARUMO, Jour. Col. Agr. Tokyo Imp. Univ. viii (11), p. 189 (1923); GUENÉE, Delt. et Pyr. p. 225, pl. 8, f. 5 (1854) (*Spoladea*); WALKER, Cat. Lep. Het. B. M. xvii, p. 395 (1859) (*Hymenia*); WALLACE & MOORE, Proc. Zool. Soc. Lond. p. 364 (1866); MOORE, Lep. Ceyl. iii, p. 293 (1885); MOORE, Jour. Linn. Soc. Zool. xxi, p. 59 (1886); SWINHOE & COTES, Cat. Moths of Ind. p. 627 (1889); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 455 (1900); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii, (1), p. 179, pl. vii, f. 12 (1928).

*Phalaena (Pyralis) fascialis* STOLL, Pap. Exot. iv, p. 236, pl. 398, f. o (1782); SWINHOE, Proc. Zool. Soc. Lond. p. 524 (1884) (*Hymenia*); id., l. c. p. 457 (1886); BUTLER, Proc. Zool. Soc. Lond. p. 384 (1886); id., l. c. p. 683 (1880); id., Ann. Mag. Nat. Hist. p. 117 (1883); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 262 (1896) (*Zinckenia*); id., Proc. Zool. Soc. Lond. p. 623 (1898); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 53 (1901); LEECH, Trans. Ent. Soc. Lond. p. 449 (1901); MATSUMURA, Cat. Ins. Jap. p. 207 (1905); SHIRAKI, Bul. Agr. Exp. Sta. Gov.-Gen. Formosa, viii, p. 365 (1913); MATSUMURA, Appl. Ent. p. 537, pl. 22, f. 2 (1917); id., Inj. Ins. Jap. p. 496, pl. 16, f. 2 (1920); id., Jour. Col. Agr. Hokkaido Imp. Univ. xv (3), p. 188 (1923); STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 37 (1913); CHITTENDEN, U. S. Dept. Agr. Bureau of Ent. Bul. no. 127, pt. 1, p. 9, pl. iv, f. 2 (1913).

*Phalaena angustalis* FABRICIUS, Mant. Ins. p. 222 (1787).

*Hymenia diffascialis* HUEBNER, Verz. Schmett. p. 361 (1826).

*Hydrocampa albifascialis* BOISDUVAL, Faun. Ent. Madag. Lep. p. 119, pl. 16, f. 1 (1833).

*Olezia hecate* BUTL. var. *formosana* SHIRAKI, l. c. I, p. 146, pl. 35, f. 5 (1910).

The type specimen of *Phalaena (Pyralis) fascialis* STOLL was taken from Japan. Occurs fairly commonly throughout Japan.

**Loc. Distr.:** Sapporo (MATSUMURA); Tokyo (MATSUMURA); Komaba (HIRAYAMA); Yokohama (?); Hyuga (WILEMAN); Tanegashima\*; Yokusima.\*

\*According to Dr. MARUMO.

**Gen. Distr.:** Africa; India; Ceylon; Sumatra; New Zealand; Hawaii; Java; New Ireland; New Guinea; Australia; China; Korea; Formosa; Japan.

Genus *Eurrhyparodes* SNELL.

*Eurrhyparodes* SNELLEN, Tijds. v. Ent. xxiii, p. 215 (1880) ..... type *bracteolalis* ZELL.  
*Molybdanthe* MEYRICK, Trans. Ent. Soc. Lond. p. 309 (1884) ..... type *bracteolalis* ZELL.

5. *Eurrhyparodes bracteolalis* ZELL.

*Botys bracteolalis* ZELLER, Lep. Microp. Caffr. p. 30 (1852); LEDERER, Wien. Ent. Mon. vii, p. 419 (1863) (*Diasemia*); WALKER, Cat. Lep. Het. B. M. xxxiv, p. 1325 (1865); MEYRICK, Trans. Ent. Soc. Lond. p. 309 (1884) (*Molybdanthe*); MOORE (part), Lep. Ceyl. iii, p. 295 (1885) (*Eurrhyparodes*); SWINHOE & COTES, Cat. Moths of Ind. p. 653 (1889); HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 39 (1891); id., l. c. ix, p. 50 (1893); id., Faun. Brit. Ind. Moths, iv, p. 264 (1896); id., Proc. Zool. Soc. Lond. p. 626 (1898); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 456 (1900); HERING, Stett. Ent. Zeit. 62, p. 321 (1901); LEECH, Trans. Ent. Soc. Lond. p. 449 (1901); MATSUMURA, Cat. Ins. Jap. p. 207 (1905); STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 37 (1918); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 180 (1928).

*Isopteryx plumbalis* GUENÉE, Delt. et Pyr. p. 231 (1854); WALKER, l. c. xvii, p. 406 (1859).

*Isopteryx accessalis* WALKER, l. c. xvii, p. 405 (1859); MOORE, Lep. Ceyl. iii, p. 294, pl. 179, f. 6 (1885) (*Eurrhyparodes*); SWINHOE & COTES, Cat. Moths of Ind. p. 653 (1889).

*Eurrhyparodes stibialis* SNELLEN, Tijds. v. Ent. xxiii, p. 216 (1880); id., l. c. xxvi, p. 134, pl. 8, f. 3 (1883).

This species was first recorded as occurring in Japan by E. HERING in 1901.

**Loc. Distr.:** Tokyo (ISSHIKI, HIRAYAMA); Yokohama(?); Yoshino (WILEMAN); Fushiki (LEECH); Nagahama (LEECH); Iyo (WILEMAN); Daisen (MATSUMURA); Osumi (WILEMAN); Hyuga (WILEMAN); Nagasaki (LEECH).

**Gen. Distr.:** India; Ceylon; Burma; Borneo; Java; Formosa; Japan.

Genus *Agrotera* SCHRK.

*Agrotera* SCHRANK, Faun. Boica, II (2), p. 163 (1802) ..... type *nemoralis* SCOP.

*Nistra* WALKER, Cat. Lep. Het. B. M. xvii, p. 488 (1859) ..... type *coelatalis* WLK.

*Tetraona* MEYRICK, Trans. Ent. Soc. Lond. p. 307 (1887) ..... type *amathealis* WLK.

*Sagariphora* MEYRICK, l. c. p. 460 (1894) ..... type *magnificalis* HMFNS.

*Leucinodella* STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 62

(1918) ..... type *leucostola* HMFNS.

Synopsis of Species

- a. Fore wing lacking a white space beyond the discocellulars .....  
 ..... *A. nemoralis* SCOP.

- a.' Fore wing with a large white space just beyond the discocellulars ...  
 ..... *A. effertalis* WLK.

### 6. *Agrotera nemoralis* SCOP.

*Phalaena nemoralis* SCOPOLI, Ent. Carn. p. 242 (1763); SCHIFFERMÜLLER & DENIS, Syst. Schmett. Wien. p. 123 (1775) (*Pyralis*); HUEBNER, Smmml. Eur. Schmett. Pyr. p. 17, pl. 15, f. 100 (1796); SCHRANCK, Faun. Boica, ii (2), p. 64 (1802); id., l. c. p. 163 (1802) (*Agrotera*); GUENÉE, Delt. et Pyr. p. 217 (1854); WALKER, Cat. Lep. Het. B. M. xvii, p. 387 (1859); LEDERER, Wien. Ent. Mon. vii, p. 440 (1863); MEYRICK, Trans. Ent. Soc. Lond. p. 442 (1890); HAMPSON, Proc. Zool. Soc. Lond. p. 630 (1898); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 53 (1901); LEECH, Trans. Ent. Soc. Lond. p. 451 (1901); MATSUMURA, Cat. Ins. Jap. p. 207 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 183, pl. vii, f. 19 (1928).

*Phalaena erosalis* FABRICIUS, Ent. Syst. iii (2), p. 236 (1794).

*Agrotera posticalis* WILEMAN, Trans. Ent. Soc. Lond. p. 374 (1911); STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 40 (1918).

This species was first recorded as occurring in Japan by HAMPSON in 1898. The type specimen of *Agrotera posticalis* WLMN. was taken from Japan.

**Loc. Distr.:** Yokohama (PRYER, WILEMAN); Settsu (WILEMAN); Tokyo (PRYER); Shikoku (WILEMAN); Hyuga (WILEMAN); Nagasaki (LEECH).

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

### 7. *Agrotera effertalis* WLK.

*Aediodes effertalis* WALKER, Cat. Het. B. M. xvii, p. 348 (1859); LEDERER, Wien. Ent. Mon. vii, p. 439 (1863) (*Agrotera*); MOORE, Lep. Ceyl. iii, p. 288 (1885); SWINHOE & COTES, Cat. Moths of Ind. p. 630 (1889); HAMPSON, Ill. Typ. Sp. Het. B. M. ix, p. 173, pl. 174, f. 19 (1893); MEYRICK, Trans. Ent. Soc. Lond. pp. 6, 46 (1894); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 266 (1896); id., Proc. Zool. Soc. Lond. p. 628 (1898); HERING, Stett. Ent. Zeit. 62, p. 319 (1901).

E. HERING recorded this species as occurring in Japan in 1901.

**Loc. Distr.:** Hiogo.\*

**Gen. Distr.:** India; Ceylon; Malay Pn.; Japan.

### Genus *Pagyda* WLK.

*Pagyda* WALKER, Cat. Lep. Het. B. M. xvii, p. 487 (1859) ..... type *salvialis* WLK.

### Synopsis of Species

- a. Postmedial line to the fore wing incurved below costa ..... (b-b')  
 a.' Postmedial line to the fore wing not incurved below costa ..... (c-c')

\*According to E. HERING.

- b. Fore wing with a medial line touched with the discocellular lunule below the lower angle of cell ..... *P. arbiter* BUTL.
- b'. Fore wing with a medial line not touched with the discocellular lunule below the lower angle of cell ..... *P. salbalis ochrealis* WLMN.
- c. Lines to the both wings much broader in comparison with *P. amphisalis* WLK., and the areas between the lines much paler .....  
..... *P. quinquelineata* HERING
- c'. Lines to the both wings narrower and the areas between the lines not paler in comparison with *P. quinquelineata* HERING .....  
..... *P. amphisalis* WLK.

### 8. *Pagyda arbiter* BUTL.

*Botys arbiter* BUTLER, Ill. Typ. Sp. Het. B. M. iii, p. 77, pl. 59, f. 13 (1879); HAMPSON (part), Faun. Brit. Ind. Moths, iv, p. 270 (1896); id., Proc. Zool. Soc. Lond. p. 635 (1898); LEECH, Trans. Ent. Soc. Lond. p. 451 (1901); MATSUMURA, Cat. Ins. Jap. p. 207 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 126 (1928) (*Pagyda*).

*Pagyda schaliphora* HAMPSON, Proc. Zool. Soc. Lond. p. 635 (1898).

The type specimen of *Botys arbiter* BUTL. was taken from Japan (Yokohama), and is now preserved in the collection of the British Museum.

**Loc. Distr.:** Yokohama (JONAS).

**Gen. Distr.:** Queensland; Formosa; Japan.

### 9. *Pagyda salbalis ochrealis* WLMN.

*Pagyda ochrealis* WILEMAN, Trans. Ent. Soc. Lond. p. 375, pl. xxx, f. 17 (1911).

This subspecies may be distinguished from the typical species in the following points:

1. The ground colour of wings more ochreous; in the typical species the area between the lines being pale whitish ochreous.
2. The body deeper in colour.

The type specimen was collected in Hokkaido, and the specimen is a female, not male as stated by WILEMAN. The cotype specimen is a male.

**Loc. Distr.:** Junsainuma in Hokkaido (WILEMAN); Yokohama (WILEMAN); Musashi (WILEMAN).

**Gen. Distr.:** Japan.

### 10. *Pagyda quinquelineata* HERING

*Pagyda quinquelineata* HERING, Stett. Ent. Zeit. 64, p. 101 (1903); WILEMAN, Trans. Ent.

Soc. Lond. p. 398 (1911); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 187, pl. vii, f. 22 (1928).

*Pagyda amphisalis* LEECH (nec WLK.), Trans. Ent. Soc. Lond. p. 542 (1901).

This species was described from Japan (Yokohama). Very closely allied to *P. amphisalis* WLK. but differs from it as follows:

1. The lines to the both wings much broader.
2. The areas between the lines much paler.
3. The fourth line to the fore wing touched with the fifth at vein 2.

**Loc. Distr.:** Hakodate(?); Tokyo (MATSUMURA, ISSHIKI); Yokohama(?); Yatsugadake (TAKEUCHI); Iyo (WILEMAN); Awa (WILEMAN); Nagasaki (LEECH).

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

### 11. *Pagyda amphisalis* WLK.

*Botys amphisalis* WALKER, Cat. Lep. Het. B. M. xviii, p. 661 (1859); HAMPSON, Proc. Zool. Soc. Lond. p. 635 (1898) (*Pagyda*); HAMPSON, Jour. Bomb. Nat. Hist. Soc. xii, p. 707 (1899); MATSUMURA, Cat. Ins. Jap. p. 207 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 187 (1928).

*Pagyda quadrilineata* BUTLER, Trans. Ent. Soc. Lond. p. 586 (1881); HAMPSON, Proc. Zool. Soc. Lond. p. 636 (1898); LEECH, Trans. Ent. Soc. Lond. p. 636 (1898); LEECH, Trans. Ent. Soc. Lond. p. 452 (1901); MATSUMURA, Cat. Ins. Jap. p. 207 (1905); MARUMO, Jour. Col. Agr. Tokyo Imp. Univ. viii (11), p. 189 (1923).

*Pagyda amphisalis* WLK. form *amphisaloides* STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 42 (1918).

The type specimen of *P. quadrilineata* BUTL. was collected in Yokohama by F. M. JONAS, and now is in the collection of the British Museum. This species seems to occur commonly in this country.

**Loc. Distr.:** Nikko (MATSUMURA); Tokyo (FENTON); Yokohama (JONAS); Yoshino (WILEMAN); Iyo (WILEMAN); Yanagawa (TAKAMUKU); Nagasaki (LEECH); Satsuma (LEECH).

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

### Genus *Cnaphalocrocis* LED.

*Cnaphalocrocis* LELENER, Wien. Ent. Mon. vii, p. 384 (1863) ..... type *medinalis* GN.

### 12. *Cnaphalocrocis medinalis* GN.

*Salbia medinalis* GUENÉE, Delt. et Pyr. p. 201 (1854); WALKER, Cat. Lep. Het. B. M. xvii, p. 361 (1859); LELENER, Wien. Ent. Mon. vii, p. 381 (1863); MOORE, Lep. Ceyl. iii, p. 281 (1885) (*Cnaphalocrocis*); MEYRICK, Trans. Ent. Soc. Lond. p. 216 (1887); SWINHOE & COYES, Cat. Moths of Ind. p. 603 (1889); HAMPSON, Ill. Typ. Sp. Het. B. M. ix, p. 51 (1893); MEYRICK, Trans. Ent. Soc. Lond. pp. 9, 467 (1894); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 275 (1896);



id., Proc. Zool. Soc. Lond. p. 638 (1898); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 462 (1900); HERING, Stett. Ent. Zeit. 62, p. 339 (1901); LEECH, Trans. Ent. Soc. Lond. p. 452 (1901); MATSUMURA, Cat. Ins. Jap. p. 208 (1905); STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 42 (1918); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 187 (1928).

*Botys rutilalis* WALKER, Cat. Lep. Het. B. M. xviii, p. 665 (1859); MOORE, Jour. Linn. Soc. Zool. xxi, p. 59 (1886); MEYRICK, Trans. Ent. Soc. Lond. p. 304 (1884) (*Cnaphalocrocis*); id., l. c. p. 235 (1886).

*Botys iolealis* WALKER, l. c. xviii, p. 666 (1859); BUTLER, Proc. Zool. Soc. Lond. p. 683 (1880) (*Asotia*); SWINHOE, Proc. Zool. Soc. Lond. p. 873 (1885); WALKER, l. c. xxxiv, p. 1480 (1865) (*Cnaphalocrocis*).

*Cnaphalocrocis jolinalis* (WLK.) LEDERER, Wien. Ent. Mon. vii, p. 385, pl. 12, f. 7 (1863); SNELLEN, Tijds. v. Ent. xxxvi, p. 135 (1883); id., Trans. Ent. Soc. Lond. p. 594 (1890).

*Botys fasciculatilis* WALKER, l. c. xxxiv, p. 1431 (1865).

*Botys acerrimalis* WALKER, l. c. p. 1449 (1865).

This species was first recorded as occurring in Japan by HAMPSON in 1898.

**Loc. Distr.:** Tokyo (HIRAYAMA); Yokohama (JONAS); Awa (WILEMAN); Yanagawa (TAKAMUKU); Satsuma (LEECH); Hyuga (WILEMAN).

**Gen. Distr.:** India; Ceylon; Java; Australia; N. Guinea; Amur; China; Korea; Formosa; Japan.

### Genus *Marasmia* LED.

*Marasmia* LEDERER, Wien. Ent. Mon. vii, p. 385 (1863) ..... type *venitialis* WLK.

*Dolichosticha* MEYRICK, Trans. Ent. Soc. Lond. p. 304 (1884) ... type *venitialis* WLK.

*Lasiatme* WARREN, Ann. Mag. Nat. Hist. (6) xviii, p. 176 (1896) ... type *latimarginalis* HMPNS.

### Synopsis of Species

- a. The basal and medial areas to the fore wing suffused with fuscous ...  
 ..... *M. limbalis* WLMN.  
 a' The basal and medial areas to the fore wing not suffused with fuscous  
 ..... *M. venitialis* WLK.

### 13. *Marasmia limbalis* WLMN.

*Marasmia limbalis* WILEMAN, Trans. Ent. Soc. Lond. p. 376 (1911).

The type specimen (♂) of this species was taken in Yoshino. There is a male specimen from Hakodate (ANDREWS Coll.) in the collection of the British Museum.

**Loc. Distr.:** Hakodate (ANDREWS); Yoshino (WILEMAN).

**Gen. Distr.:** Japan.

14. *Marasmia venilialis* Wlk.

*Asopia venilialis* WALKER, Cat. Lep. Het. B. M. xvii, p. 373 (1859); MEYRICK, Trans. Ent. Soc. Lond. p. 305 (1884) (*Dolichosticha*); id., l. c. p. 217 (1887); id., l. c. p. 9 (1894); MOORE, Lep. Ceyl. iii, p. 282 (1885); SWINHOE & COTES, Cat. Moths of Ind. p. 603 (1889); SWINHOE, Trans. Ent. Soc. Lond. p. 273 (1890); SNELLEN, Trans. Ent. Soc. Lond. p. 595 (1890); HAMPSON, Ill. Typ. Sp. Het. B. M. ix, p. 51, pl. clxxiv, f. 11 (1893) (*Marasmia*); id., Faun. Brit. Ind. Moths, iv, p. 276 (1896); id., Proc. Zool. Soc. Lond. p. 638 (1898); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 463 (1900); WILEMAN, Trans. Ent. Soc. Lond. p. 376 (1911); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 191 (1928).

*Botys marisalis* WALKER, l. c. xviii, p. 717 (1859); MEYRICK, Trans. Ent. Soc. Lond. p. 10 (1894) (*Dolichosticha*).

*Marasmia cicatricosa* LEDERER, Wien. Ent. Mon. vii, p. 386, pl. 12, f. 8 (1863); WALKER, l. c. xxxiv, p. 1491 (1865); SNELLEN, Tijds. v. Ent. xxvi, p. 135 (1883) (*Cnapha.ocrasis*).

*Marasmia ruralis* MEYRICK (nec Wlk.), l. c. p. 235 (1886).

This species was first recorded as occurring in Japan by WILEMAN in 1911. It seems to be rare in this country.

Loc. Distr.: Satsuma (WILEMAN).

Gen. Distr.: W. & S. Africa; Oriental and Australian regions; Formosa; Japan.

Genus *Bocchoris* MOOR.

*Bocchoris* MOORE, Lep. Ceyl. iii, p. 271 (1885) ..... type *inspersalis* ZELL.

*Diastictis* HUEBNER, Verz. Schmett. p. 355 (1826) praecoc. .... type *argyralis* HBN.

*Chabula* MOORE, l. c. p. 317 (1886) ..... type *acamasalis* Wlk.

*Didymostoma* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 392

(1892) ..... type *euphranoralis* Wlk.

*Anomostictis* WARREN, l. c. p. 434 (1892) ..... type *argyralis* HBN.

Synopsis of Species

- a. Wings with the outer area fuscous ..... (b-b')
- a.' Wings black, with small white spots ..... *B. inspersalis* ZELL.
- b. Fore wing with a black edged broad fuscous medial band .....  
..... *B. telphusalis* Wlk.
- b.' Fore wing with no black edged broad fuscous medial band ... (c-c')
- c. Fore wing with the costal area fuscous ..... (d-d')
- c.' Fore wing with the costal area not fuscous ..... *B. onychinalis* Gn.
- d. Wings with each a postmedial line followed by an ochreous band at the outside ..... *B. adipalis* LED.
- d.' Wings with each a postmedial line not followed by an ochreous band at the outside except at the costal area ..... *B. aptalis* Wlk.

### 15. *Bocchoris onychinalis* GN.

*Asopia onychinalis* GUENÉE, Delt. et Pyr. p. 205, pl. 6, f. 9 (1854); WALKER, Cat. Lep. Het. B. M. xvii, p. 369 (1859); SWINHOE & COTES, Cat. Moths of Ind. p. 626 (1889); SNELLEN, Tijds. v. Ent. xxvii, p. 45 (1884) (*Synclera*); MEYRICK, Trans. Ent. Soc. Lond. p. 214 (1887); SNELLEN, Trans. Ent. Soc. Lond. p. 636 (1890); HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 37 (1891); MEYRICK, Trans. Ent. Soc. Lond. p. 10 (1894) (*Nausimö*); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 283 (1896) (*Bocchoris*); id., Proc. Zool. Soc. Lond. p. 651 (1898); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 467 (1900); LEECH, Trans. Ent. Soc. Lond. p. 454 (1901); MATSUMURA, Cat. Ins. Jap. p. 208 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 197 (1928).

*Zebronia ? braurealis* WALKER, Cat. Lep. Het. B. M. xix, p. 971 (1859); MOORE, Lep. Ceyl. iii, p. 316 (1886) (*Synclera*); MEYRICK, Trans. Ent. Soc. Lond. p. 213 (1887); SWINHOE & COTES, l. c. p. 633 (1889).

*Lefyroles atomalis* FELDER & ROGENHOFER, Reis. Novara, Lep. pl. 135, f. 22 (1874); MEYRICK, Trans. Ent. Soc. Lond. p. 224 (1886) (*Glyphodes*).

LEECH recorded first this species from Japan in 1901, as he obtained two specimens in Satsuma in May, 1886.

**Loc. Distr.:** Yokohama (WILEMAN); Yoshino (WILEMAN); Yanagawa (MITSUHASHI); Tokyo (HIRAYAMA); Kyoto (SUZUKI); Satsuma (LEECH).

**Gen. Distr.:** Africa; India; Borneo; Australia; Burma; Formosa; Japan.

### 16. *Bocchoris telfhusalis* WLK.

*Glyphodes ? telfhusalis* WALKER, Cat. Lep. Het. B. M. xix, p. 974 (1859); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 284 (1896) (*Bocchoris*); id., Proc. Zool. Soc. Lond. p. 651 (1898); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 468 (1900); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 198, pl. vii, f. 6 (1928).

*Glyphodes uncinialis* PAGENSTECHEK, J. B. Nass. Ver. xxxvii, p. 273, pl. 7, f. 6 (1884).

*Heterocnephes reniferalis* SNELLEN, Trans. Ent. Soc. Lond. p. 616 (1890).

*Bocchoris fazanalis* SWINHOE, Ann. Mag. Nat. Hist. (7) xvii, p. 288 (1906).

*Glyphodes albilunalis* WILEMAN, Trans. Ent. Soc. Lond. p. 381, pl. 31, f. 12 (1911).

The type specimen of *Glyphodes albilunalis* WLMN. was taken from Japan (Yoshino) and is now in WILEMAN's private collection.

**Loc. Distr.:** Hakodate (ANDREWS); Yoshino (WILEMAN); Higo (WILEMAN).

**Den. Gistr.:** India; Sumatra; Borneo; Formosa; Japan.

### 17. *Bocchoris adipalis* LED.

*Botys adipalis* LEDERER, Wien. Ent. Mon. vii, pp. 376, 475, pl. 11, f. 16 (1863); WALKER, Cat. Lep. Het. B. M. xxxiv, p. 1390 (1865); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 286 (1896) (*Bocchoris*); id., Proc. Zool. Soc. Lond. p. 652 (1898); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 468 (1900); LEECH, Trans. Ent. Soc. Lond. p. 454 (1901); MATSUMURA, Cat. Ins. Jap. p. 208 (1905);

SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 198, pl. vii, f. 15 (1928).

*Botys notatalis* WALKER, Cat. Lep. Het. B. M. xxxiv, p. 1437 (1865).

*Samea cuprinalis* MOORE, Proc. Zool. Soc. Lond. p. 615 (1877); SWINHOE & COTES, Cat. Moths of Ind. p. 625 (1889).

*Mimorista marginalis* WARREN, Ann. Mag. Nat. Hist. (9) xviii, p. 114 (1896).

This species was first recorded as occurring in Japan by LEECH in 1901.

**Loc. Distr.:** Higo (WILEMAN); Satsuma (LEECH).

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

### 18. *Bocchoris aptalis* Wlk.

*Botys aptalis* WALKER, Cat. Lep. Het. B. M. xxxiv, p. 1425 (1865); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 286 (1896) (*Bocchoris*); id., Proc. Zool. Soc. Lond. p. 653 (1898); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 468 (1900); LEECH, Trans. Ent. Soc. Lond. p. 454 (1901); MATSUMURA, Cat. Ins. Jap. p. 203 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 198, pl. vii, f. 24 (1928).

*Samea usitata* BUTLER, Ill. Typ. Sp. Het. B. M. iii, p. 74, pl. 59, f. 3 (1879).

*Lygropia euryclealis* LEECH (nec Wlk.), Trans. Ent. Soc. Lond. p. 471 (1901); WILEMAN (part), Trans. Ent. Soc. Lond. p. 380 (1911).

*Samea usitata* BUTL. was described from Japan, and the type specimen of this species was obtained in Yokohama by JONAS, and is now in the collection of the British Museum.

**Loc. Distr.:** Yokohama (JONAS); Iyo (ARAKAWA).

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

### 19. *Bocchoris inspersalis* ZELL.

*Botys inspersalis* ZELLER, Lep. Microp. Caffr. p. 33 (1852); LEDERER, Wien. Ent. Mon. vii, p. 434 (1863) (*Aediodes*); MOORE, Lep. Ceyl. iii, p. 272 (1885) (*Bocchoris*); SWINHOE & COTES, Cat. Moths of Ind. p. 630 (1889); HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 39 (1891); id., l. c. ix, p. 49 (1893); MEYRICK, Trans. Ent. Soc. Lond. p. 9 (1894); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 284 (1896); id., Proc. Zool. Soc. Lond. p. 654 (1898); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 467 (1900); HERING, Stett. Ent. Zeit. 62, p. 327 (1901); LEECH, Trans. Ent. Soc. Lond. p. 455 (1901); MATSUMURA, Cat. Ins. Jap. p. 208 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 199, pl. v, f. 20 (1923).

*Desmia afflicta* GUENÉE, Delt. et Pyr. p. 190, pl. 5, f. 4 (1854); WALKER, Cat. Lep. Het. B. M. xvii, p. 344 (1859).

*Aediodes bootanalis* WALKER, l. c. xxxiv, p. 1293 (1865).

*Desmia stellaris* BUTLER, Ill. Typ. Sp. Het. B. M. iii, p. 73, pl. lviii, f. 15 (1879).

*Desmia stellaris* BUTL. was described from Japan. The type specimen of the species was taken in Yokohama by JONAS, and now it is preserved in the collection of the British Museum.

**Loc. Distr.:** Sapporo (MATSUMURA); Nikko (LEECH); Hakone (LEECH); Fushiki (LEECH); Yokohama (JONAS); Yoshino (WILEMAN); Iyo (WILEMAN).

**Gen. Distr.:** Africa; Arabia; India; Ceylon; Burma; Java; China; Formosa; Japan.

### Genus *Nosophora* LED.

*Nosophora* LEDERER, Wien. Ent. Mon. vii, p. 407 (1863) ..... type *dispilalis* HMPSN.  
*Analthes* LEDERER, l. c. pp. 407, 502 (1863) ..... type *semitritalis* LED.  
*Eidama* WALKER, Cat. Lep. Het. B. M. xxxiv, p. 1374 (1865) ..... type *hypsalis* WLK.

### 20. *Nosophora semitritalis* LED. var. *orbicularis* SHIB.

*Nosophora semitritalis* LED. var. *orbicularis* SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 201, pl. vii, f. 16 (1928).

*Nosophora semitritalis* LEECH (nec LED.), Trans. Ent. Soc. Lond. p. 455 (1901); MATSUMURA, Cat. Ins. Jap. p. 209 (1905).

The specimen collected in Kiushu and determined by LEECH as *Nosophora semitritalis* LED. is identical with *N. semitritalis* LED. var. *orbicularis* SHIB., and up to the present I have not been able to obtain any typical specimen of *N. semitritalis* LED. in Japan.

**Loc. Distr.:** Teshio (WILEMAN); Yoshino (WILEMAN); Dorokawa in Prov. Yamato (WILEMAN); Kii (ISSHIKI); Chichibu (HIRAYAMA); Hikosan (?); Daisen (MATSUMURA).

**Gen. Distr.:** Formosa; Japan.

### Genus *Tyspanodes* WARR.

*Tyspanodes* WARREN, Ann. Mag. Nat. Hist. (6) vii, p. 425 (1891) ..... type *nigrolinealis* MOOR.  
*Peribona* SNELLEN, Tijd. v. Ent. xxxviii, p. 145 (1895) ..... type *venosa* BUTL.  
*Radiorista* WARREN, l. c. (6) xvii, p. 138 (1896) ..... type *venosa* BUTL.

### 21. *Tyspanodes striata* BUTL.

*Astura striata* BUTLER, Ill. Typ. Sp. Het. B. M. iii, p. 76, pl. lix, f. 10 (1879); HAMPSON, Proc. Zool. Soc. Lond. p. 673 (1898) (*Tyspanodes*); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 474 (1900); LEECH, Trans. Ent. Soc. Lond. 456 (1901); MATSUMURA, Cat. Ins. Jap. p. 209 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 202, pl. vii, f. 34 (1928).

This species was described from Japan. The type specimen came from Yokohama. Seems to occur commonly throughout Japan.

**Loc. Distr.:** Sapporo (MATSUMURA, SHIBUYA); Hakodate (?); Towado(?); Iwate (OGASAWARA); Nikko (WILEMAN); Tokyo (FENTON); Yokohama (JONAS, WILEMAN); Kumano-hira (KÔNO); Iyo (ARAKAWA); Beppu (MATSUMURA); Nagasaki (LEECH); Satsuma (LEECH).

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

Genus *Phostria* HBN.

- Phostria* HUEBNER, Verz. Schmett. p. 130 (1820) ..... type *tedea* CRAM.  
*Phryganodes* GUENÉE, Delt. et Pyr. p. 353 (1854) ..... type *plicatalis* GN.  
*Omiodes* GUENÉE, l. c. p. 355 (1854) ..... type *humeralis* GN.  
*Eporidia* WALKER, Cat. Lep. Het. M. B. xviii, p. 541 (1859) type *dariusalis* WLK.  
*Cyrocephala* LEDERER, Wien. Ent. Mon. vii, p. 395 (1863)... type *venosta* LED.  
*Spargeta* LEDERER, l. c. p. 406 (1863) ..... type *basalticalis* LED.  
*Coenostola* LEDERER, l. c. p. 408 (1863)..... type *originalis* WLK.  
*Microthyris* LEDERER, l. c. p. 432 (1863) ..... type *prolongalis* GN.  
*Vatica* WALKER, Proc. N. H. Soc. Glasg. i, p. 369 (1869)... type *rutialis* WLK.  
*Condega* MOORE, Lep. Ceyl. iii, p. 344 (1886) ..... type *obscurata* MOOR.  
*Charema* MOORE, Lep. Atk. p. 218 (1888) ..... type *noctescens* MOOR.  
*Sarosceis* MEYRICK, Trans. Ent. Soc. Lond. p. 461 (1894)... type *nicoalis* WLK.  
*Plectrona* SNELLEN, Tijd. v. Ent. xxxviii, p. 142 (1895)..... type *dohrni* SNELL.  
*Hoflisa* SNELLEN, l. c. xlii, p. 69 (1899) ..... type *xipharesalis* WLK.  
*Parbokla* SWINHOE, Cat. Het. Mus. Oxf. ii, p. 476 (1900)... type *diffusimarginalis* HMPSN.  
*Oedematarcha* SWINHOE, l. c. p. 476 (1900) ..... type *xipharesalis* WLK.  
*Antennodes* SWINHOE, Ann. Mag. Nat. Hist. (7) xvii, p. 291  
 (1906) ..... type *radicalis* WLK.

Synopsis of Species

- a. Wings with large yellowish patches ..... *P. munitalis* WLMN.  
 a' Wings with no yellowish patches ..... (b-b')  
 b. Antemedial line to the fore wing bent outwardly .....  
 ..... *P. noctescens* MOOR.  
 b' Antemedial line to the fore wing slightly dentated but not bent out-  
 wardly ..... *P. crithonalis* WLK.

22. *Phostria munitalis* WLMN.

*Phryganodes munitalis* WILEMAN, Trans. Ent. Soc. Lond. p. 377, pl. xxx, f. 15 (1911).

Described from Japan. The type specimen of the species was collected at Shiokubi in Prov. Oshima, and is now in WILEMAN's private collection.

**Loc. Distr.:** Mt. Daisetsu (MATSUMURA); Sapporo (MATSUMURA, SHI-

BUYA); Shiokubi (WILEMAN).

**Gen. Distr.:** Japan.

### 23. *Phostria noctescens* MOOR.

*Charema noctescens* MOORE, Lep. Atk. p. 218 (1888); SWINHOE & COTES, Cat. Moths of Ind. p. 623 (1889); LEECH, Trans. Ent. Soc. Lond. p. 457 (1901); MATSUMURA, Cat. Ins. Jap. p. 209 (1905); SNELLEN, Trans. Ent. Soc. Lond. p. 619 (1890) (*Omiodes*); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 476 (1900); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 303 (1896) (*Phryganodes*); id., Proc. Zool. Soc. Lond. p. 683 (1898); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 204, pl. vii, f. 17 (1928).

This species was first recorded as occurring in Japan by LEECH in 1901.

**Loc. Distr.:** Nikko (LEECH); Chichibu (HIRAYAMA); Yoshino (WILEMAN); Shimonoseki (LEECH); Satsuma (LEECH).

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

### 24. *Phostria crithonalis* WLK.

*Botys crithonalis* WALKER, Cat. Lep. Het. B. M. xviii, p. 682 (1859); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 304 (1896) (*Phryganodes*); id., Proc. Zool. Soc. Lond. p. 684 (1898); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 477 (1900) (*Omiodes*); HERING, Stett. Ent. Zeit. 62, p. 291 (1901).

*Polythlipta caradrinalis* SNELLEN, Tijd. v. Ent. 35, p. 162, pl. 10, f. 7 (1892).

In 1901, E. HERING recorded this species from Japan, but I have hitherto not been able to obtain any specimen of this species.

**Loc. Distr.:** Yokohama (STICHEL).\*

**Gen. Distr.:** Borneo; Japan.

### Genus *Dichocrocis* LED.

*Dichocrocis* LEDERER, Wien. Ent. Mon. vii, p. 447 (1863) ..... type *paudamalis* WLK.  
*Conogethes* MEYRICK, Trans. Ent. Soc. Lond. p. 314 (1884) ..... type *punctiferalis* GN.  
*Gadessa* MOORE, Lep. Ceyl. iii, p. 278 (1885) ..... type *albifrons* MOOR.  
*Dadessa* MOORE, l. c. p. 333 (1886) ..... type *evaxalis* WLK.  
*Phaedropsis* WARREN, Ann. Mag. Nat. Hist. (6) iv, p. 476 (1890) ... type *chromalis* GN.  
*Orthospila* WARREN, l. c. p. 477 (1890) ..... type *plutusalis* WLK.  
*Zebrodes* WARREN, l. c. (6) xvii, p. 104 (1896) ..... type *rigidalis* SNELL.

### Synopsis of Species

- a. Wings black brown, with a slight cuprescent tinge .....  
 ..... *D. surusalis* WLK.

\*According to E. HERING.

- a. Wings yellow ..... (b-b')
- b. Fore wing with five series of black spots; hind wing with two series of black spots ..... *D. punctiferalis* GN.
- b'. Fore wing with two black lines; hind wing with a single black line ..... *D. chlorophanta* BUTL.

**25. *Dichocrocis surusalis* WIK.**

*Botys surusalis* WALKER, Cat. Lep. Het. B. M. xviii, p. 695 (1859); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 311 (1896) (*Dichocrocis*); id., Proc. Zool. Soc. Lond. p. 689 (1898); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 479 (1900); LEECH, Trans. Ent. Soc. Lond. p. 456 (1901); MATSUMURA, Cat. Ins. Jap. p. 209 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 205 (1928); HERING, Stett. Ent. Zeit. 62, p. 80 (1901) (*Sylepta*).

*Botys subjunctalis* WALKER, Cat. Lep. Het. B. M. xxxiv, p. 1404 (1865); MOORE, Lep. Ceyl. iii, p. 290, pl. 181, f. 6 (1885) (*Rehimena*); SWINHOE & COTES, Cat. Moths of Ind. p. 606 (1889).

*Botys triferalis* WALKER, l. c. xxxiv, p. 1428 (1865).

*Botys semifascialis* SNELLEN, Tijds. v. Ent. xxiii, p. 241 (1880); id., l. c. xxvi, p. 131, pl. 7, ff. 12, 12 a-c (1883).

This species was first recorded from Japan by HAMPSON in 1896.

**Loc. Distr.:** Echigo (NAKAMURA); Tokyo (HIRAYAMA); Yokohama (WILEMAN); Kyoto (SUZUKI).

**Gen. Distr.:** Ceylon; Borneo; Singapore; N. Guinea; China; Formosa; Japan.

**26. *Dichocrocis punctiferalis* GN.**

*Astura punctiferalis* GUENÉE, Delt. et Pyr. p. 320 (1854); WALKER, Cat. Lep. Het. B. M. xviii, p. 548 (1859); MOORE, Proc. Zool. Soc. Lond. p. 96 (1867); SWINHOE, Proc. Zool. Soc. Lond. p. 872 (1885); PRYER, Trans. Asiat. Soc. Jap. xiii (1), p. 63 (1835); LEDERER, Wien. Ent. Mon. vii, p. 375 (1863) (*Botys*); PAGENSTECHEK, J. B. Nass. Ver. xxxvii, p. 268 (1884); MEYRICK, Trans. Ent. Soc. Lond. p. 314 (1884) (*Conogethes*); MOORE, Lep. Ceyl. iii, p. 333 (1886); SWINHOE & COTES, Cat. Moths of Ind. p. 591 (1889); SWINHOE, Trans. Ent. Soc. Lond. p. 268 (1890); SNELLEN, Trans. Ent. Soc. Lond. p. 592 (1890); HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 38 (1891); id., l. c. ix, p. 48 (1893); MEYRICK, Trans. Ent. Soc. Lond. p. 459 (1894); id., l. c. p. 88 (1897); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 307 (1896) (*Dichocrocis*); id., Proc. Zool. Soc. Lond. p. 690 (1898); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 481 (1900); MATSUMURA, Ill. Zeit. Ent. Berl. v (24), p. 332 (1900); LEECH, Trans. Ent. Soc. Lond. p. 456 (1901); MATSUMURA, Cat. Ins. Jap. p. 209 (1905); MIYAKE, Annot. Zool. Jap. vi (3), p. 210 (1907); SUZUKI, List Sp. Hanazono Ent. Labr. p. 25 (1915); STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 44 (1918); MARUMO, Jour. Col. Agr. Tokyo Imp. Univ. viii (11), p. 191 (1923); OKAMOTO, Bul. Agr. Exp. Sta. Gov.-Gen. Chosen, i (2), p. 149 (1924); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 206, pl. vii, f. 26 (1928).

*Astura ersealis* WALKER, Cat. Lep. Het. B. M. xix, p. 980 (1859); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 480 (1900) (*Dichocrocis*).



*Deiopeia detracta* WALKER, Jour. Linn. Soc. Lond. iii, p. 186 (1859); id., Cat. Lep. Het. B. M. xxxi, p. 262 (1864).

*Astura guttatalis* WALKER, l. c. xxxiv, p. 1381 (1865).

*Botys nicippzalis* WALKER, l. c. p. 999 (1859).

This species was first recorded as occurring in Japan by PRYER in 1885. Very commonly occurs throughout Japan.

**Loc. Distr.:** Tokyo (?); Yokohama (PRYER); Kyoto (?); Yoshino (WILEMAN); Chichibu (UCHIDA); Nagahama (LEECH); Fushiki (LEECH); Shimonoseki (LEECH); Tsuruga (LEECH); Tanegashima (MARUMO).

**Gen. Distr.:** India; Java; China; Korea; Formosa; Japan.

## 27. *Dichocrocis chlorophanta* BUTL.

*Botys chlorophanta* BUTLER, Ill. Typ. Sp. Het. B. M. ii, p. 58, pl. xxxix, f. 8 (1878); HERING, Stett. Ent. Zeit, 62, p. 75 (1901); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 207, pl. vii, f. 36 (1928) (*Dichocrocis*); HAMPSON (part), Faun. Brit. Ind. Moths, iv, p. 310 (1896); id., Proc. Zool. Soc. Lond. p. 692 (1898); LEECH, Trans. Ent. Soc. Lond. p. 457 (1901); MATSUMURA, Cat. Ins. Jap. p. 209 (1905).

Described from Japan (Yokohama), and the type specimen is now in the collection of the British Museum.

**Loc. Distr.:** Sapporo (MATSUMURA); Tokyo (?); Yokohama (JONAS); Chichibu (HIRAYAMA); Nikko (WILEMAN); Yoshino (WILEMAN); Kyoto (SUZUKI); Daisen (MATSUMURA); Satsuma (LEECH).

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

## Genus *Lamprosema* HBN.

- Lamprosema* HUEBNER, Verz. Schmett. p. 361 (1826) ..... type *lunulalis* HBN.  
*Nacoleia* WALKER, Cat. Lep. Het. B. M. xix, p. 934 (1859) ... type *rhoealis* WLK.  
*Hedylepta* LEDERER, Wien. Ent. Mon. vii, p. 409 (1863) ..... type *indicata* FABR.  
*Pelecyntis* MEYRICK, Trans. Ent. Soc. Lond. p. 315 (1884) ... type *diemenalis* GN.  
*Semioceros* MEYRICK, l. c. p. 318 (1884) ..... type *amphicedalis* WLK.  
*Thysanodesma* BUTLER, Ill. Typ. Sp. Het. B. M. vii, p. 96  
 (1889) ..... type *praeteritalis* WLK.  
*Aptomastix* WARREN, Ann. Mag. Nat. Hist. (6) vi, p. 478 (1880) ... type *moninalis* WARR.  
*Loxocreon* WARREN, l. c. (6) ix, p. 432 (1892) ..... type *continuatalis* WLLGRN.  
*Metasciodes* MEYRICK, l. c. p. 8 (1894) ..... type *helicalis* MEYR.  
*Merotoma* MEYRICK, l. c. p. 460 (1894) ..... type *dairalis* WLK.  
*Macrospectrodes* WARREN, l. c. (6) xvii, p. 94 (1896) ..... type *subargentalis* SNELL.  
*Idiusia* WARREN, l. c. p. 93 (1896) ..... type *benefictalis* WARR.  
*Preneopogon* WARREN, l. c. p. 146 (1896) ..... type *barbata* WARR.  
*Orthocona* WARREN, l. c. (6) xviii, p. 214 (1896) ..... type *eximialis* WARR.

## Synopsis of Species

- A. Wings fuscous ..... (a-a')
- A.' Wings yellowish ..... (b-b')
- A." Wings brown, very slightly tinged with ochreous ..... (h-h')
- A.'" Wings fulvous ..... *L. indicata* FABR.
- a. Ground colour of the fore wing darker in comparison with *L. tristrialis* BREM.; cilia to the hind wing sometimes whitish at tornus .....  
..... *L. indistincta* WARR.
- a.' Smaller and paler in comparison with *L. indistincta* WARR.; cilia to the hind wing not whitish at tornus ..... *L. tristrialis* BREM.
- b. Wings broadly suffused with fuscous ..... (c-c')
- b.' Wings not broadly suffused with fuscous ..... (g-g')
- c. Fore wing with black annuli at the middle of costa ..... (d-d')
- c.' Fore wing lacking black annuli at the middle of costa ..... (f-f')
- d. Fore wing with two black annuli at the middle of costa .....  
..... *L. catenalis* WLMN.
- d.' Fore wing with a single annulus at the middle of costa ..... (e-e')
- e. Basal halves of the both wings not suffused with fuscous .....  
..... *L. commixta* BUTL.
- e.' Basal half of the fore wing suffused with fuscous .....  
..... *L. satsumalis* SOUTH
- f. Fore wing with the costal area broadly suffused with fuscous .....  
..... *L. fumidalis* LEECH
- f.' Fore wing with the costal area not suffused with fuscous .....  
..... *L. maculalis* SOUTH
- g. Each wing with the middle of the terminal area and the anal area blackish ..... *L. chrysorycta* MEYR.
- g.' Each wing with the middle of the terminal area and the anal area not blackish; a series of black spots at termen .....  
..... *L. tampiusalis* WLK.
- h. Postmedial line to the fore wing oblique outwardly from costa for some distance ..... (i-i')
- h.' Postmedial line to the fore wing erect from costa for some distance ..... *L. similis* MOOR.
- i. Each wing with a black terminal line ..... *L. misera* BUTL.
- i.' Each wing with no black terminal line ..... (j-j')

- j. Fore wing with a pale yellowish mark in cell .....  
 ..... *L. pallidinotalis* HMPSON.
- j.' Fore wing lacking a pale yellowish mark in cell .....  
 ..... *L. invalidalis* SOUTH

### 28. *Lamprosema commixta* BUTL.

*Samea commixta* BUTLER, Ann. Mag. Nat. Hist. (5) iv, p. 453 (1879); SWINHOE & COTES, Cat. Moths of Ind. p. 624 (1889); HAMPSON, Ill. Typ. Sp. Het. B. M., ix, p. 172, pl. clxxiii, f. 24 (1893) (*Thysanodesma*); id., Faun. Brit. Ind. Moths, iv, p. 322 (1896) (*Nacoleia*); id., Proc. Zool. Soc. Lond. p. 694 (1898); LEECH, Trans. Ent. Soc. Lond. p. 462 (1901); MATSUMURA, Cat. Ins. Jap. p. 210 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 209, pl. vii, f. 9 (1928) (*Lamprosema*).

*Nacoleia costisignalis* MOORE, Lep. Ceyl. iii, p. 273 (1885); SWINHOE & COTES, l. c. p. 642 (1889).

*Samea commixta* BUTL. was described from Japan (Yokohama), and the type specimen is now preserved in the collection of the British Museum.

**Loc. Distr.:** Hakodate (LEECH); Chichibu (HIRAYAMA); Yokohama (PRYER); Higo (WILEMAN).

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

### 29. *Lamprosema maculalis* SOUTH

*Nacoleia maculalis* SOUTH, Trans. Ent. Soc. Lond. p. 462, pl. xiv, f. 7 (1901); WILEMAN, Trans. Ent. Soc. Lond. p. 379 (1911); SHIBUYA, Ins. Mats. II (2), p. 99 (1927).

This species was first recorded from Japan by WILEMAN in 1911.

**Loc. Distr.:** Sapporo (MATSUMURA); Junsainuma in Hokkaido (WILEMAN); Yamato (WILEMAN); Daisen (MATSUMURA).

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

### 30. *Lamprosema satsumalis* SOUTH

*Nacoleia satsumalis* SOUTH, Trans. Ent. Soc. Lond. p. 461 (1901); MATSUMURA, Cat. Ins. Jap. p. 210 (1905).

This species was also described from Japan. The type specimen is in the British Museum. There is one more specimen in the same Museum, came from Hakodate (ANDREWS Coll.).

**Loc. Distr.:** Hakodate (ANDREWS); Kyoto (SUZUKI); Musashi (ISSHIKI); Iyo (WILEMAN); Higo (WILEMAN); Satsuma (WILEMAN, LEECH); Hyuga (WILEMAN).

**Gen. Distr.:** Japan.

**31. *Lamprosema catenalis* WLMN.**

*Nacoleia catenalis* WILEMAN, Trans. Ent. Soc. Lond. p. 378 (1911).

The type specimen of this species was taken at Tarumidzu in Prov. Osumi, and is now in WILEMAN's private collection.

**Loc. Distr.:** Osumi (WILEMAN).

**Gen. Distr.:** Japan.

**32. *Lamprosema chrysorycta* MEYR.**

*Semioceros chrysorycta* MEYRICK, Trans. Ent. Soc. Lond. p. 320 (1884); HAMPSON, Trans. Ent. Soc. Lond. p. 213 (1897) (*Pileocera*); LEECH, Trans. Ent. Soc. Lond. p. 443 (1901); MATSUMURA, Cat. Ins. Jap. p. 205 (1905); HAMPSON, Jour. Bomb. Nat. Hist. Soc. xviii, p. 575 (1908); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 209, pl. vii, f. 27 (1928) (*Lamprosema*).

*Nacoleia contingens* MOORE, Lep. Ceyl. iii, p. 273, pl. 179, f. 8 (1885); SWINHOE & COTES, Cat. Moths of Ind. p. 642 (1889); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 238 (1896) (*Pileocera*); id., Trans. Ent. Soc. Lond. p. 213 (1897).

This species was first recorded as occurring in Japan by LEECH in 1901.

**Loc. Distr.:** Yoshino (WILEMAN); Kiushu (LEECH).

**Gen. Distr.:** India; Ceylon; Burma; Borneo; Australia; Formosa; Japan.

**33. *Lamprosema tampiusalis* WLK.**

*Botys tampiusalis* WALKER, Cat. Lep. Het. B. M. xviii, p. 704 (1859); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 318 (1896) (*Nacoleia*); id., Proc. Zool. Soc. Lond. p. 702 (1898); LEECH, Trans. Ent. Soc. Lond. p. 460 (1901); MATSUMURA, Cat. Ins. Jap. p. 210 (1905).

*Botys ilusalis* WALKER, l. c. p. 705 (1859).

*Botys dascylusalis* WALKER, l. c. xix, p. 1003 (1859).

*Apomastyx mimula* HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 138, pl. 155, f. 23 (1891).

*Metasia illiputalis* SNELLEN, Tijd. v. Ent. p. 229 (1880); id., l. c. pl. 3, f. 8 (1884).

*Metasiodes calliophis* MEYRICK, Trans. Ent. Soc. Lond. p. 466 (1894).

LEECH recorded this species from Japan in 1901, but I have hitherto unable to obtain any specimen of this species in Japan.

**Loc. Distr.:** Fushiki (LEECH).

**Gen. Distr.:** India; Borneo; Japan.

**34. *Lamprosema similis* MOOR.**

*Acharana similis* MOORE, Lep. Ceyl. iii, p. 286, pl. 180, f. 12 (1885); HAMPSON (part), Faun. Brit. Ind. Moths, iv, p. 314 (1896); id., Proc. Zool. Soc. Lond. p. 698 (1898); LEECH,

Trans. Ent. Soc. Lond. p. 458 (1901); MATSUMURA, Cat. Ins. Jap. p. 209 (1905).

LEECH also recorded first this species as occurring in Japan in 1901.

**Loc. Distr.:** Mifune in Prov. Higo (WILEMAN); Kagoshima (WILEMAN) Satsuma (LEECH); Nagasaki (LEECH).

**Gen. Dis'r.:** India; Ceylon; China; Korea; Japan.

### 35. *Lamprosema pallidinotalis* HMPSON.

*Nacoleia pallidinotalis* HAMPSON, Ann. Mag. Nat. Hist. (8) ix, p. 443 (1912); LEECH, Trans. Ent. Soc. Lond. p. 459 (1901), non descr.; MATSUMURA, Cat. Ins. Jap. p. 210 (1905); WILEMAN, Trans. Ent. Soc. Lond. p. 378 (1911).

This species was first recorded as occurring in Hokkaido by LEECH in 1901.

**Loc. Distr.:** Sapporo (MATSUMURA); Hakodate (LEECH); Towada (?); Satsuma (LEECH); Yanagawa (TAKAMUKU).

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

### 36. *Lamprosema tristrialis* BREM.

*Botys tristrialis* BREMER, Lep. Ost-Sib. p. 68, pl. vi, f. 7 (1864); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 313 (1896) (*Nacoleia*); id., Proc. Zool. Soc. Lond. p. 698 (1898); LEECH, Trans. Ent. Soc. Lond. p. 458 (1901); MATSUMURA, Cat. Ins. Jap. p. 210 (1905); id., Jour. Col. Agr. Hokkaido Imp. Univ. xv (3), p. 188 (1925); HERING, Stett. Ent. Zeit. 62, p. 303 (1901) (*Hedylepta*); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 210, pl. viii, f. 1 (1928) (*Lamprosema*).

*Hedylepta confusalis* WARREN, Ann. Mag. Nat. Hist. (6) xvii, p. 93 (1896); HAMPSON, Proc. Zool. Soc. Lond. p. 698 (1898) (*Nacoleia*).

Recorded from Japan first by HERING in 1901.

**Loc. Distr.:** Tokachi in Hokkaido (?); Sapporo (MATSUMURA); Tokyo (?); Chichibu (HIRAYAMA); Yokohama (PRYER); Yamato (WILEMAN).

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

### 37. *Lamprosema indistincta* WARR.

*Acharana indistincta* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 436 (1892); LEECH, Trans. Ent. Soc. Lond. p. 484 (1901) (*Pachyzancla*); MATSUMURA, Cat. Ins. Jap. p. 215 (1905).

Described from Japan, but I have hitherto not been able to obtain any specimen of this species in this country.

**Loc. Distr.:** ?

**Gen. Distr.:** Japan.

**38. *Lamprosema misera* BUTL.**

*Asopia misera* BUTLER, Ill. Typ. Sp. Het. B. M. iii, p. 74, pl. lix, f. 5 (1879); HAMPSON (part), Proc. Zool. Soc. Lond. p. 698 (1898); LEECH, Trans. Ent. Soc. Lond. p. 458 (1901); MATSUMURA, Cat. Ins. Jap. p. 209 (1905).

The type specimen of this species was collected in Yokohama, and is now in the collection of the British Museum.

**Loc. Distr.:** Yokohama (JONAS); Kyoto (?); Nagahama (LEECH); Satsuma (LEECH); Nagasaki (LEECH); Higo (WILEMAN); Osumi (WILEMAN); Hyuga (WILEMAN).

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

**39. *Lamprosema invalidalis* SOUTH**

*Sylepta invalidalis* SOUTH, Trans. Ent. Soc. Lond. p. 467, pl. xv, f. 26 (1901).

Hitherto not been recorded as occurring in Japan. I have a single female specimen taken on Mt. Takao in Prov. Musashi on the 19th of August, 1915 by Prof. S. ISSHIKI.

**Loc. Distr.:** Musashi (ISSHIKI).

**Gen. Distr.:** C. & W. China; Japan.

**40. *Lamprosema indicata* FABR.**

*Phaluena indicata* FABRICIUS, Syst. Ent. p. 640 (1775); id., Ent. Syst. iii (2), p. 218 (1794); AURIVILLIUS, Ent. Tids. xviii, p. 168 (1897); HAMPSON, Proc. Zool. Soc. Lond. p. 699 (1898) (*Nacoleia*); HERING, Stett. Ent. Zeit. 62, p. 306 (1901) (*Hedylecta*); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 211, pl. viii, f. 25 (1928) (*Lamprosema*).

*Asopia vulgaris* GUENÉE, Delt. et Pyr. p. 202, pl. 6, f. 8 (1854); WALKER, Cat. Lep. Het. B. M. xvii, p. 364 (1859); LEDERER, Wien. Ent. Mon. vii, p. 409 (1863) (*Hedylecta*); WALKER, l. c. xxxiv, p. 1322 (1865); MOORE, Lcp. Ceyl. iii, p. 276 (1885); SWINHÖE & COTES, Cat. Moths of Ind. p. 641 (1889); SWINHÖE, Trans. Ent. Soc. Lond. p. 283 (1890); SNELLEN, Trans. Ent. Soc. Lond. p. 619 (1890); HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 39 (1891); id., l. c. ix, p. 49 (1893); MEYRICK, Trans. Ent. Soc. Lond. p. 6 (1897); id., l. c. p. 87 (1897); SWINHÖE, Cat. Het. Mus. Oxf. ii, p. 483 (1900); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 315 (1896) (*Nacoleia*).

*Betys sabalis* WALKER, Cat. Lep. Het. B. M. xviii, p. 631 (1859).

*Betys moeliusalis* WALKER, l. c. p. 703 (1859).

*Betys connexalis* WALKER, l. c. xxxiv, p. 1394 (1865).

*Betys reductalis* WALKER, l. c. p. 1412 (1865).

This species was first recorded in Japan by HERING in 1901. Seems to be rare in this country.

**Loc. Distr.:** Hokkaido (ANDREWS); Kii (ISSHIKI); Yanagawa (TAKAMUKU).

**Gen. Distr.:** Africa; India; Ceylon; Borneo; Madagascar; Singapore;

C. America; China; Formosa; Japan.

#### 41. *Lamprosema fumidalis* LEECH

*Samia fumidalis* LEECH, Entom. xxii, p. 70, pl. iv, f. 8 (1889); HAMPSON, Proc. Zool. Soc. Lond. p. 647 (1898); LEECH, Trans. Ent. Soc. Lond. p. 453 (1901); MATSUMURA, Cat. Ins. Jap. p. 208 (1905).

Described from Japan, and the type specimen is now preserved in the collection of the British Museum.

**Loc. Distr.:** Nagasaki (LEECH).

**Gen. Distr.:** Japan.

#### Genus *Goniorhynchus* HMPSON.

*Goniorhynchus* HAMPSON, Faun. Brit. Ind. Moths, iv, p. 322 (1896) ... type *gratalis* LED.

#### Synopsis of Species

- a. The terminal area of fore wing and the apical area of hind wing fuscous ..... *G. marginalis* WARR.  
 a' The terminal area of fore wing and the apical area of hind wing not fuscous except the terminal line ..... *G. butyroza* BUTL.

#### 42. *Goniorhynchus marginalis* WARR.

*Goniorhynchus marginalis* WARREN, Ann. Mag. Nat. Hist. (6) xviii, p. 115 (1896); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 404 (1896) (*Pachyzancla*); id., Proc. Zool. Soc. Lond. p. 205 (1899); LEECH, Trans. Ent. Soc. Lond. p. 484 (1901); MATSUMURA, Cat. Ins. Jap. p. 215 (1905).

*Goniorhynchus obliquistriga* WARREN, l. c. p. 115 (1896).

*Goniorhynchus exemplaris* HAMPSON, Proc. Zool. Soc. Lond. p. 705 (1898); LEECH, Trans. Ent. Soc. Lond. p. 463 (1901); MATSUMURA, Cat. Ins. Jap. p. 210 (1905).

*Lygropia euryclealis* WILEMAN (nec WLK.), Trans. Ent. Soc. Lond. p. 380 (1911).

*Goniorhynchus exemplaris* HMPSON. was described from Japan, the type specimen of which is in the collection of the British Museum.

The Japanese specimen identified by WILEMAN as *Lygropia euryclealis* WLK. is identical with *G. marginalis* WARR.

**Loc. Distr.:** Komaba (HIRAYAMA); Kyoto (HIRAYAMA); Daisen (MATSUMURA); Yoshino (WILEMAN); Hyuga (WILEMAN); Yanagawa (TAKAMUKU); Kumamoto (KAWAMURA); Satsuma (WILEMAN, LEECH).

**Gen. Distr.:** India; China; Japan.

**43. *Goniorhynchus butyrosa* BUTL.**

*Samea butyrosa* BUTLER, Ill. Typ. Sp. Het. B. M. iii, p. 73, pl. lix, f. 1 (1879); HAMPSON, Proc. Zool. Soc. Lond. p. 705 (1898) (*Goniorhynchus*); LEECH, Trans. Ent. Soc. Lond. p. 463 (1901); MATSUMURA, Cat. Ins. Jap. p. 210 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 214, pl. viii, f. 10 (1928).

The type specimen of this species was taken in Yokohama by JONAS, and is now in the British Museum.

**Loc. Distr.:** Tokyo (MATSUMURA); Komaba (HIRAYAMA); Chichibu (HIRAYAMA); Yokohama (JONAS); Yamato (WILEMAN); Kyoto (OGUMA); Iyo (WILEMAN, ARAKAWA); Nagasaki (LEECH); Satsuma (WILEMAN); Hyuga (WILEMAN).

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

Genus *Ceratarcha* SWINH.

*Ceratarcha* SWINHOE, Ann. Mag. Nat. Hist. (6) xiv, p. 200 (1894) ... type *umbrosa* SWINH.

**44. *Ceratarcha umbrosa* SWINH.**

*Ceratarcha umbrosa* SWINHOE, Ann. Mag. Nat. Hist. (6) xiv, p. 200 (1894); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 325 (1896); id., Proc. Zool. Soc. Lond. p. 709 (1898); SNELLEN, Tijds. v. Ent. 43, p. 276, pl. 15, ff. 9-10 (1901); WILEMAN, Trans. Ent. Soc. Lond. p. 380 (1911); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 214, pl. viii, f. 18 (1928).

This species was first recorded from Japan by WILEMAN in 1911.

**Loc. Distr.:** Takanabe in Prov. Hyuga (WILEMAN).

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

Genus *Botyodes* GN.

*Botyodes* GUENÉE, Delt. et Pyr. p. 320 (1854) ..... type *asiaticus* GN.

*Endocrossis* MEYRICK, Trans. Ent. Soc. Lond. p. 515 (1889) ..... type *flavitasalis* MOOR.

**45. *Botyodes principalis* LEECH**

*Botyodes principalis* LEECH, Entom. xxii, p. 69, pl. iii, f. 9 (1889); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 326 (1896); id., Proc. Zool. Soc. Lond. p. 710 (1898); HERING, Stett. Ent. Zeit. 62, p. 225 (1901); LEECH, Trans. Ent. Soc. Lond. p. 463 (1901); MATSUMURA, Cat. Ins. Jap. p. 210 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 215, pl. viii, f. 11 (1928).

*Botyodes maculalis* SWINHOE, Ann. Mag. Nat. Hist. (6) xiv, p. 198 (1894).

*Botyodes principalis* LEECH was described from Japan (Satsuma), the type specimen of which is now preserved in the British Museum.



**Loc. Distr.:** Tokyo (WILEMAN); Yoshino (WILEMAN); Iyo (WILEMAN); Dorokawa (WILEMAN); Satsuma (LEECH, WILEMAN).

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

### Genus *Sylepta* HBN.

- Sylepta* HUEBNER, Verz. Schmett. p. 356 (1826) ..... type *amando* CRAM.  
*Lypotigris* HUEBNER, l. c. p. 361 (1826) ..... type *reginalis* CRAM.  
*Hyalitis* GUENÉE, Delt. et Pyr. p. 289 (1854) ..... type *reginalis* CRAM.  
*Astura* GUENÉE, l. c. p. 318 (1854) ..... type *elevata* FABR.  
*Asciodes* GUENÉE, l. c. p. 374 (1854) ..... type *gordialis* GN.  
*Pantographa* LEDERER, Wien. Ent. Mon. vii, p. 387 (1863) ... type *scriptusalis* GN.  
*Sathria* LEDERER, l. c. p. 411 (1863) ..... type *internitalis* GN.  
*Nagia* WALKER, Cat. Lep. Het. B. M. xxxiv, p. 1320 (1865) ... type *quadrimaculalis* KLLR.  
*Notarcha* MEYRICK, Trans. Ent. Soc. Lond. p. 310 (1884) ... type *derogata* FABR.  
*Patania* MOORE, Lep. Atk. p. 209 (1888) ..... type *concatenalis* WLK.  
*Pramadea* MOORE, l. c. p. 211 (1888) ..... type *denticulata* MOOR.  
*Crocioenemis* WARREN, Trans. Ent. Soc. Lond. p. 268 (1889) ... type *pellucida* MEYR.  
*Pleuroptya* MEYRICK, l. c. p. 443 (1890) ..... type *lalteata* FABR.  
*Laxoscia* WARREN, Ann. Mag. Nat. Hist. (6) vi, p. 476 (1890) ... type *scinialis* WLK.  
*Haritalodes* WARREN, l. c. p. 476 (1890) ..... type *derogata* FABR.  
*Epherema* SNELLEN, Tijd. v. Ent. xxxv, p. 170 (1892) ..... type *abyssalis* SNELL.  
*Iliostrophe* WARREN, l. c. (6) xvii, p. 133 (1896) ..... type *albipunctata* WARR.  
*Haliotigeris* WARREN, l. c. (6) xviii, p. 163 (1896) ..... type *cometa* WARR.  
*Polycorys* WARREN, l. c. (6) xviii, p. 172 (1896) ..... type *seminigralis* WARR.

### Synopsis of Species

- A. Wings fuscous with yellowish markings ..... (a-a')  
 A.' Wings fuscous with white patches ..... (h-h')  
 A.'' Wings fuscous with no white or yellowish markings .....  
 ..... *S. satana* HERING  
 A.''' Wings yellowish ..... (i-i''')\*  
 a. Hind wing with no yellowish markings ..... *S. insignis* BUTL.  
 a.' Hind wing with yellowish markings ..... (b-b')  
 b. Hind wing with the basal half yellowish ..... (c-c')  
 b.' Hind wing with the basal half fuscous ..... (d-d')  
 c. Fore wing with a large yellowish patch beyond the discocellulars  
 concaved at middle of the outside ..... *S. maculalis* LEECH  
 c.' Fore wing with a large yellowish patch beyond the discocellulars not  
 concaved at middle of the outside ..... *S. taiwanalis* SHIB.

\* (i-i''') indicates (i-i'-i''-i'''-i'''').

- d. Hind wing with a very narrow yellowish medial line ..... *S. dificiens* MOOR.  
 ..... *S. dificiens* MOOR.
- d.' Hind wing with a broad yellowish medial band ..... (e-e')
- e. Fore wing with a very small yellow dot below costa beyond the postmedial line ..... *S. segnalis* LEECH
- e.' Fore wing with a large yellow dot below costa beyond the postmedial line ..... (f-f')
- f. Each wing with a postmedial line highly waved at the excurved portion ..... *S. magna* BUTL.
- f.' Each wing with a postmedial line not waved at the excurved portion ..... (g-g')
- g. Hind wing with a yellow band excurved at middle of the outside ...  
 ..... *S. tricolor* BUTL.
- g.' Hind wing with a yellow band not particularly excurved at middle of the outside ..... *S. luctuosalis* GN.
- h. Each wing with a white patch beyond cell much smaller in comparison with *S. quadrimaculalis* KLLR.; white patch to the fore wing becoming narrower towards costa ..... *S. inferior* HMPSN.
- h.' Each wing with a white patch beyond cell larger in comparison with *S. inferior* HMPSN. .... *S. quadrimaculalis* KLLR.
- i. Each wing with the apical area suffused with fuscous ... *S. balteata* FABR.
- i.' Each wing with the terminal area somewhat suffused with fuscous ...  
 ..... *S. fuscomarginalis* LEECH
- i." Both wings wholly tinged with fuscous ..... *S. pernitescens* SWINH.
- i.iii Each wing with a blackish terminal line; some black spots on the basal area; lines and annuli fuscous ..... *S. derogata* FABR.
- i.iiii Each wing lacking a blackish terminal line and blackish spots near the base; lines dark and indistinct ..... (j-j')
- j. Each wing with a postmedial line evenly undulated ... *S. ruralis* SCOP.
- j.' Each wing with a postmedial line highly excurved at the middle but not undulated ..... *S. ultimalis* WLK.

#### 46. *Sylepta satana* HERING

*Sylepta satana* HERING, Stett. Ent. Zeit. 62, p. 69 (1901); id., l. c. 64, pl. I, f. 14 (1903).  
 HERING recorded this species as occurring in Japan, but I have hitherto not been able to obtain any specimen of this species in this country.

**Loc. Distr.:** South Japan (HERING).

**Gen. Distr.:** Sumatra; Japan.

47. *Sylepta luctuosalis* GN.

*Hyatilis luctuosalis* GUENÉE, Delt. et Pyr. p. 290 (1854); LEDERER, Wien. Ent. Mon. vii, p. 403 (1863); WALKER, Cat. Lep. Het. B. M. xvii, p. 345 (1859) (*Desmia* ?); SWINHOE & COTES, Cat. Moths of Ind. p. 627 (1889); SNELLEN, Trans. Ent. Soc. Lond. p. 626 (1890) (*Coptobasis*); HERING, Stett. Ent. Zeit. 62, p. 300 (1901); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 340 (1896) (*Sylepta*); id., Proc. Zool. Soc. Lond. p. 715 (1898); STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 48 (1918); LEECH, Trans. Ent. Soc. Lond. p. 464 (1901); MATSUMURA, Cat. Ins. Jap. p. 211 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 221, pl. viii, f. 4 (1928); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 490 (1900) (*Pramadea*).

*Botys oemealis* WALKER, Cat. Lep. Het. B. M. xviii, p. 671 (1859); SWINHOE & COTES, Cat. Moths of Ind. 619 (1889) (*Coptobasis*); SNELLEN, Trans. Ent. Soc. Lond. p. 627 (1890).

*Botys cosialis* WALKER, Cat. Lep. Het. B. M. xviii, p. 685 (1859).

*Ebutea zeileri* BREMER, Lep. Ost-Sib. p. 70, pl. 6, f. 12 (1864).

*Coptobasis andamanalis* MOORE, Proc. Zool. Soc. Lond. p. 615, pl. 60, f. 14 (1877); SWINHOE & COTES, l. c. p. 628 (1889).

*Hymenia erebina* BUTLER, Ill. Typ. Sp. Het. B. M. ii, p. 57, pl. 39, f. 1 (1878).

*Hymenia erebina* BUTL. was described from Japan, the type specimen of which is now preserved in the British Museum.

**Loc. Distr.:** Sapporo (MATSUMURA); Ishikari (WILEMAN); Tokyo (HIRAYAMA); Chichibu (UCHIDA); Yokohama (JONAS); Iyo (WILEMAN); Daisen (MATSUMURA); Kumamoto (KAWAMURA); Nagasaki (LEECH); Satsuma (LEECH, WILEMAN).

**Gen. Distr.:** India; Borneo; China; Korea; Formosa; Japan.

48. *Sylepta tricolor* BUTL.

*Hymenia tricolor* BUTLER, Ill. Typ. Sp. Het. B. M. iii, p. 75, pl. 59, f. 6 (1879); HAMPSON, Proc. Zool. Soc. Lond. p. 715 (1898) (*Sylepta*); LEECH, Trans. Ent. Soc. Lond. p. 464 (1901); MATSUMURA, Cat. Ins. Jap. p. 211 (1905).

This species was also described from Japan, the type specimen of which was obtained in Yokohama, and is now in the collection of the British Museum.

**Loc. Distr.:** Yokohama (JONAS); Kyoto (OGUMA); Chichibu (UCHIDA); Daisen (MATSUMURA); Iyo (WILEMAN).

**Gen. Distr.:** Korea; Japan.

49. *Sylepta segnalis* LEECH

*Coptobasis segnalis* LEECH, Entom. xxii, p. 65, pl. iv, f. 4 (1889); HAMPSON, Proc. Zool. Soc. Lond. p. 715 (1898) (*Sylepta*); LEECH, Trans. Ent. Soc. Lond. p. 464 (1901); MATSUMURA, Cat. Ins. Jap. p. 211 (1905); STAUDINGER & REBEL (part), Cat. Lep. Palaearc. ii, p. 259 (1901).

Described from Japan. The type specimen is in the British Museum.

**Loc. Distr.:** Sapporo (SHIBUYA); Yokohama (PRYER Coll.); Daisen (MA-

TSUMURA); Nagasaki (LEECH).

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

**50. *Sylepta maculalis* LEECH**

*Botys maculalis* LEECH, Entom. xxii, p. 67, pl. iii, f. 11 (1889); HAMPSON, Proc. Zool. Soc. Lond. p. 718 (1898) (*Sylepta*); LEECH, Trans. Ent. Soc. Lond. p. 465 (1901); MATSUMURA, Cat. Ins. Jap. p. 211 (1905).

This species was described from Japan (Tsuruga). The type specimen of this species is a female, not male as stated by LEECH.

**Loc. Distr.:** Yoshino (WILEMAN); Tsuruga (LEECH).

**Gen. Distr.:** China; Japan.

**51. *Sylepta taiwanalis* SHIB.**

*Sylepta taiwanalis* SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 222, pl. viii, f. 12 (1928).

*Sylepta maculalis* STRAND (nec LEECH), Deut. Ent. Zeit. Iris, xxxii (1/2), p. 49 (1918).

Hitherto unrecorded from Japan. A single male specimen is in the collection of the Entomological Museum of the Hokkaido Imperial University, taken on Mt. Takao on July 4, 1921 by S. HIRAYAMA.

**Loc. Distr.:** Mt. Takao (HIRAYAMA).

**Gen. Distr.:** Formosa; Japan.

**52. *Sylepta balteata* FABR.**

*Phalaena balteata* FABRICIUS, Suppl. Ent. Syst. p. 457 (1798); AURIVILLIUS, Ent. Tijd. xviii, p. 167 (1879); HAMPSON, Proc. Zool. Soc. Lond. p. 718 (1893) (*Sylepta*).

*Botys crocealis* DUPONCHEL, Hist. Nat. Lep. Fr. viii, p. 365 (1831); id., l. c. pl. 235, f. 6 (1835).

*Botys aurantiacalis* FISCHER, EDLER von ROSLERSTAMM, Abbild. Schm. p. 213, pl. 75, f. 3 (1840); HERRICH-SCHAEFFER, Eur. Schmett. iv, p. 28 (1849); GUENÉE, Delt. et Pyr. p. 329 (1854); WALKER, Cat. Lep. Het. B. M. xviii, p. 553 (1859); LEDERER, Wien. Ent. Mon. vii, p. 370 (1863); MEYRICK, Trans. Ent. Soc. Lond. p. 444 (1890) (*Pleuroptya*); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 491 (1900); MEYRICK, l. c. p. 463 (1894); SWINHOE, Trans. Ent. Soc. Lond. p. 281 (1895); (*Nacoleia*); HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 38 (1891); id., l. c. ix, p. 48 (1893); id., Faun. Brit. Ind. Moths, iv, p. 337 (1896) (*Sylepta*); LEECH, Trans. Ent. Soc. Lond. p. 465 (1901); MATSUMURA, Cat. Ins. Jap. p. 211 (1905); MARUMO, Jour. Col. Agr. Tokyo Imp. Univ. viii (11), p. 193 (1923).

*Botys accipitrals* WALKER, Cat. Lep. Het. B. M. xxxiv, p. 1422 (1865); SWINHOE, l. c. p. 491 (1900) (*Pleuroptya*).

*Botys aurea* BUTLER, Ill. Typ. Sp. Het. B. M. iii, p. 76, pl. 59, f. 12 (1879); id., Proc. Zool. Soc. Lond. p. 163 (1883); SWINHOE, Proc. Zool. Soc. Lond. p. 373 (1885); SWINHOE & COTES, Cat. Moths of Ind. p. 593 (1889).

*Hapalia fraterna* MOORE, Lep. Ceyl. iii, p. 338, pl. 183, f. 9 (1886); SWINHOE & COTES, l. c. p. 599 (1889); SWINHOE, Trans. Ent. Soc. Lond. p. 270 (1895).

*Botys aurea* BUTL. was described from Japan, the type specimen of which was collected in Yokohama by JONAS, and is now preserved in the collection of the British Museum.

**Loc. Distr.:** Tokyo (MATSUMURA); Yokohama (JONAS); Hakone (LEECH); Kobe (WILEMAN); Nagasaki (LEECH); Satsuma (WILEMAN).

**Gen. Distr.:** India; Ceylon; Balkans; China; Korea; Formosa; Japan.

### 53. *Sylepta pernitescens* SWINH.

*Charema pernitescens* SWINHÖE, Ann. Mag. Nat. Hist. (6) xiv, p. 203 (1894); HAMPSON, Faun. Brid. Ind. Moths, iv, p. 337 (1896) (*Sylepta*); id., Proc. Zool. Soc. Lond. p. 719 (1898); LEECH, Trans. Ent. Soc. Lond. p. 466 (1901); MATSUMURA, Cat. Ins. Jap. p. 211 (1905).

*P. europtera fuscalis* WARREN, Ann. Mag. Nat. Hist. (6) xviii, p. 165 (1896).

In 1896, HAMPSON recorded this species as occurring in Japan. However I have hitherto not been able to obtain any specimen of this species in this country.

**Loc. Distr.:** ?

**Gen. Distr.:** India; Japan.\*

### 54. *Sylepta fuscomarginalis* LEECH

*Botys fuscomarginalis* LEECH, Entom. xxii, p. 68, pl. iii, f. 4 (1889); HAMPSON, Proc. Zool. Soc. Lond. p. 722 (1898) (*Sylepta*); LEECH, Trans. Ent. Soc. Lond. p. 468 (1901); MATSUMURA, Cat. Ins. Jap. p. 212 (1905).

Described from Japan. The type in B. M.

**Loc. Distr.:** Nikko (?); Hakone (LEECH); Kyoto (SUZUKI).

**Gen. Distr.:** China; Japan.

### 55. *Sylepta insignis* BUTL.

*Botyodes insignis* BUTLER, Trans. Ent. Soc. Lond. p. 587 (1881); HAMPSON, Proc. Zool. Soc. Lond. p. 719 (1898) (*Sylepta*); LEECH, Trans. Ent. Soc. Lond. p. 466 (1901); MATSUMURA, Cat. Ins. Jap. p. 211 (1905).

This species was also described from Japan, the type specimen of which was collected in Tokyo by FENTON, and is now in the British Museum.

**Loc. Distr.:** Tokyo (FENTON); Yoshino (WILEMAN); Nagoya (?).

**Gen. Distr.:** China; Japan.

### 56. *Sylepta ruralis* SCOP.

*Phalaena ruralis* SCOPOLI, Ent. Carn. p. 242 (1763); LEECH, Brit. Pyr. p. 35, pl. 4, f. 8

\*According to HAMPSON.

(1886) (*Botys*); MEYRICK, Brit. Lep. p. 406 (1895); HAMPSON, Proc. Zool. Soc. Lond. p. 721 (1898) (*Sylepta*); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 54 (1901); LEECH (part), Trans. Ent. Soc. Lond. p. 466 (1901); MATSUMURA, Cat. Ins. Jap. p. 212 (1905); id., Jour. Col. Agr. Hokkaido Imp. Univ. xv (3), p. 189 (1925); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 225, pl. viii, f. 29 (1928); HERING, Stett. Ent. Zeit. 62, p. 73 (1901) (*Pyrausta*).

*Pyralis verticalis* SCHIFFERMÜLER et DENIS (nec LINN.), Syst. Schmett. Wien. p. 120 (1775).

*Epicorista iridialis* HUEBNER, Verz. Schmett. p. 355 (1826).

*Notarcho dubia* HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 136, pl. clv, f. 16 (1891); id., l. c. ix, p. 48 (1893).

So far as my studies go, this species was first recorded as occurring in Japan by LEECH in 1901. The Japanese specimen collected and determined by LEECH as *Sylepta sabinusalis* WLK. is identical with *S. rufalis* SCOP. This species seems to occur fairly commonly throughout Japan.

**Loc. Distr.:** Sapporo (MATSUMURA); Hakodate (?); Tokyo (?); Echigo (NAKAMURA); Chichibu (HIRAYAMA); Yokohama (?); Fushiki (LEECH); Tsuruga (LEECH); Nagasaki (LEECH); Satsuma (LEECH); Higo (WILEMAN).

**Gen. Distr.:** Europe; India; Sumatra; Korea; Formosa; Japan.

### 57. *Sylepta ultimalis* WLK.

*Botys ultimalis* WALKER, Cat. Lep. Het. B. M. xviii, p. 659 (1859); MOORE, Lep. Ceyl. iii, p. 339 (1886) (*Ilapalia*); SWINHOE & COTES, Cat. Moths of Ind. p. 601 (1889); HAMPSON, Ill. Typ. Sp. Het. B. M. ix, pp. 48, 170, pl. clxxii, f. 8 (1893) (*Notarcho*); id., Faun. Brit. Ind. Moths, iv, p. 333 (1896) (*Sylepta*); id., Proc. Zool. Soc. Lond. p. 722 (1898); LEECH, Trans. Ent. Soc. Lond. p. 468 (1901); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 226 (1928).

Recorded first by LEECH from Japan in 1901.

**Loc. Distr.:** Iida-san in Prov. Higo (WILEMAN); Japan (PRYER Coll.).

**Gen. Distr.:** Ceylon; Burma; Formosa; Japan.

### 58. *Sylepta derogata* FABR.

*Phalaena derogata* FABRICIUS, Syst. Ent. p. 641 (1775); id., Ent. Syst. iii (2), p. 218 (1794); HAMPSON, Proc. Zool. Soc. Lond. p. 722 (1898) (*Sylepta*); SHIRAKI, Bul. Agr. Exp. Sta. Gov.-Gen. Formosa, vol. i, p. 117, pl. 32, f. 5 (1910); id., l. c. vol. v, p. 144, pl. xiv, ff. 9, 10 (1913); STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 51 (1918); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 226 (1928).

*Botys multilinealis* GUENÉE, Delt. et Pyr. p. 337, pl. 8, f. 11 (1854); WALKER, Cat. Lep. Het. B. M. xviii, p. 661 (1859); LEDERER, Wien. Ent. Mon. vii, p. 375, pl. 11, f. 3 (1863); MOORE, Proc. Zool. Soc. Lond. p. 96 (1867); id., l. c. p. 619 (1877); SNELLEN, Trans. Ent. Soc. Lond. p. 588 (1890); MEYRICK, Trans. Ent. Soc. Lond. p. 312 (1884) (*Notarcho*); id., l. c. p. 443 (1890); id., l. c. p. 462 (1894); MOORE, Lep. Ceyl. iii, p. 315 (1886) (*Synclera*); SWINHOE & COTES, Cat. Moths of Ind. p. 634 (1889); SWINHOE, Trans. Ent. Soc. Lond. p. 280 (1890); WARREN, Ann. Mag. Nat. Hist. (6) vi, p. 476 (1850) (*Lialtalodes*); HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 38 (1891); id., l. c. ix, p. 48 (1893); id., Faun. Brit. Ind. Moths, iv, p. 334 (1896).

(*Sylepta*); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 495 (1900); LEECH, Trans. Ent. Soc. Lond. p. 468 (1901); MATSUMURA, Cat. Ins. Jap. p. 212 (1905).

*Zebronia salomealis* WALKER, Cat. Lep. Het. B. M. xvii, p. 476 (1859); id., l. c. xxxiv, p. 1348 (1865); SWINHOE, Proc. Zool. Soc. Lond. p. 870 (1865).

*Botys otysalis* WALKER, l. c. xviii, p. 723 (1859).

*Botys basipunctalis* BREMER, Lep. Ost-Sib. p. 63, pl. 6, f. 8 (1864).

*Botys annuligeralis* WALKER, l. c. xxxiv, p. 1424 (1865).

Recorded by HAMPSON from Japan in 1898, and as far as I am aware, no one gave Japan as a locality of this species before that time.

**Loc. Distr.:** Sapporo (MATSUMURA); Tokyo (ISSHIKI); Yokohama (?); Fushiki (LEECH); Yoshino (WILEMAN); Satsuma (LEECH); Osumi (WILEMAN).

**Gen. Distr.:** Africa; India; Ceylon; Java; Borneo; Australia; Siberia; China; Korea; Formosa; Japan.

### 59. *Sylepta magna* BUTL.

*Samea magna* BUTLER, Ill. Typ. Sp. Het. B. M. iii, p. 74, pl. 59, f. 2 (1879); HAMPSON, Proc. Zool. Soc. Lond. p. 723 (1898) (*Sylepta*); LEECH, Trans. Ent. Soc. Lond. p. 469 (1901); MATSUMURA, Cat. Ins. Jap. p. 212 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 228 (1928).

This species was described from Japan, the type specimen of which was collected in Hakodate, and is now preserved in the collection of the British Museum.

**Loc. Distr.:** Hakodate (WHITELY); Nikko (OKAMOTO); Chichibu (HIRAYAMA); Fushiki (LEECH).

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

### 60. *Sylepta deficiens* MOOR.

*Coptobasis deficiens* MOORE, Lep. Ceyl. iii, p. 556, pl. 215, f. 12 (1887); SWINHOE & COTES, Cat. Moths of Ind. p. 628 (1889); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 337 (1896) (*Sylepta*); id., Proc. Zool. Soc. Lond. p. 724 (1898); LEECH, Trans. Ent. Soc. Lond. p. 469 (1901); MATSUMURA, Cat. Ins. Jap. p. 212 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 229, pl. viii, f. 6 (1928).

*Nacoleia sounkeana* MATSUMURA, Ins. Mats. I (3), p. 118 (1927).

In 1901, this species was first recorded as occurring in Japan by LEECH. *N. sounkeana* MATS. was described from Japan, the type specimen of which was taken on Mt. Daisetsu in Hokkaido.

**Loc. Distr.:** Mt. Daisetsu (MATSUMURA); Sapporo (MATSUMURA); To-

betsu (WILEMAN); Junsainuma (WILEMAN); Chichibu (HIRAYAMA); Iyo (WILEMAN); Awa (WILEMAN); Higo (WILEMAN); Satsuma (LEECH).

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

### 61. *Sylepta inferior* HMPSN.

*Sylepta inferior* HAMPSON, Proc. Zool. Soc. Lond. p. 724 (1898); LEECH, Trans. Ent. Soc. Lond. p. 470 (1901); MATSUMURA, Cat. Ins. Jap. p. 212 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 223 (1928); SWINHOE (part), Ann. Mag. Nat. Hist. (7) xvii, p. 293 (1906).

*Botys ? quadrimaculalis* MOTSCHULSKY, Etud. Entom. p. 37 (1860) praeoce.; MATSUMURA, Jour. Col. Agr. Hokkaido Imp. Univ. xv (3), p. 189 (1925) (*Glyphodes*).

*Chalcidoptera incomitata* SWINHOE, Ann. Mag. Nat. Hist. (7) viii, p. 25 (1900).

The type specimen of *Botys ? quadrimaculalis* MOTSCH. was obtained in Japan.

**Loc. Distr.:** Sapporo (MATSUMURA); Hakodate (?); Iwate (OGASAWARA); Tokyo (MATSUMURA); Chichibu (HIRAYAMA); Yoshino (WILEMAN); Satsuma (LEECH); Nagasaki (LEECH); Iyo (WILEMAN).

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

### 62. *Sylepta quadrimaculalis* KLLR.

*Scopula quadrimaculalis* KOLLER, Hugel. Kasch. iv (2), p. 492 (1844); LEDERER, Wien. Ent. Mon. vii, p. 430, pl. 16, f. 12 (1863) (*Coptobasis*); SNELLEN, Trans. Ent. Soc. Lond. p. 589 (1890) (*Botys*); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 336 (1896) (*Sylepta*); id., Proc. Zool. Soc. Lond. p. 472 (1898); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 496 (1900); LEECH, Trans. Ent. Soc. Lond. p. 470 (1901); MATSUMURA, Cat. Ins. Jap. p. 212 (1905); id., Jour. Col. Agr. Hokkaido Imp. Univ. xv (3), p. 188 (1925); Caradja, Acad. Rom. Mem. Sect. Stiint. iii (3), mem. 7, p. 350 (1925); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 229, pl. viii, f. 14 (1928).

*Nagia desmialis* WALKER, Cat. Lep. Het. B. M. xxxiv, p. 1320 (1865); SWINHOE, Ann. Mag. Nat. Hist. (7) xvii, p. 293 (1906) (*Sylepta*).

*Sylepta maculalis* MATSUMURA (nec LEECH), Jour. Col. Agr. Tohoku Imp. Univ. Sapporo, iv (1), p. 58 (1911).

Recorded first from Japan by HAMPSON in 1896.

**Loc. Distr.:** Hyuga (WILEMAN); Higo (WILEMAN); Japan (PRYER Coll.).

**Gen. Distr.:** India; China; Korea; Formosa; Japan; S. Saghalien\*.

### Genus *Lygropia* LED.

*Lygropia* LEDERER, Wien. Ent. Mon. vii, p. 381 (1863) ..... type *unicoloralis* GN.

*Deuterarcha* MEYRICK, Trans. Ent. Soc. Lond. p. 312 (1884) ... type *xanthomela* MEYR.

*Haritala* MOORE, Lep. Ceyl. iii, p. 311 (1886) ..... type *quaternalis* ZELL.

*Pardonima* WARREN, Ann. Mag. Nat. Hist. (6) vi, p. 477 (1890) ... type *amyntusalis* WLK.

\*According to Prof. MATSUMURA.



63. *Lygropia poltisalis* Wlk.

*Botys poltisalis*: WALKER, Cat. Lep. Het. B. M. xviii, p. 714 (1859); MEYRICK, Trans. Ent. Soc. Lond. p. 453 (1894) (*Tylostega* ?); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 344 (1896) (*Lygropia*); id., Proc. Zool. Soc. Lond. p. 729 (1898); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 498 (1900); LEECH, Trans. Ent. Soc. Lond. p. 471 (1901).

*Samea yerburii* BUTLER, Proc. Zool. Soc. Lond. p. 383, pl. xxxv, f. 6 (1886); SWINHOE & COTES, Cat. Moths of Ind. p. 626 (1889).

*Hapalia oblita* MOORE, Lep. Atk. p. 222 (1888); SWINHOE & COTES, l. c. p. 600 (1889); SNELLEN, Trans. Ent. Soc. Lond. p. 530 (1850) (*Botys*).

*Notarcha semiflava* WARREN, Ann. Mag. Nat. Hist. (6) xviii, p. 166 (1896).

So far as my studies go, no one previously recorded this species as occurring in Japan. Two specimens are in the collection of the Entomological Museum of the Hokkaido Imperial University, Sapporo, taken in Chichibu on the 30th of August, 1919 by S. HIRAYAMA, and at Mt. Daisetsu on August 19, 1922 by Prof. MATSUMURA.

**Loc. Distr.:** Mt. Daisetsu (MATSUMURA); Chichibu (HIRAYAMA).

**Gen. Distr.:** India; Borneo; Korea; Japan.

Genus *Margaronia* HBN.

- Parotis* HUEBNER, Smml. Exot. Schmett. iii, p. 30 (1825) non  
 descr. .... type *marinata* FABR.  
*Margaronia* HUEBNER, Verz. Schmett. p. 358 (1826) ..... type *unionalis* HBN.  
*Eudiptis* HUEBNER, l. c. p. 359 (1826) ..... type *hyalinata* LINN.  
*Phakellura* POEY, Lep. Cuba (1832) non descr. .... type *hyalinata* LINN.  
*Paradosis* ZELLER, Lep. Microp. Caffr. p. 58 (1852) ..... type *flegia* CRAM.  
*Glyphodes* GUENÉE, Delt. et Pyr. p. 292 (1854) ..... type *stolalis* GN.  
*Margarodes* GUENÉE, l. c. p. 301 (1854) praeocc. .... type *laticostalis* GN.  
*Hoterodes* GUENÉE, l. c. p. 310 (1854) ..... type *ausonia* CRAM.  
*Tobata* WALKER, Cat. Lep. Het. B. M. xviii, p. 516 (1859) ..... type *elealis* Wlk.  
*Dysallaeta* LEDERER, Wien. Ent. Mon. vii, p. 393 (1863) ..... type *negatalis* Wlk.  
*Stemorrhage* LEDERER, l. c. p. 397 (1863) ..... type *sericea* DRURY  
*Pachyarches* LEDERER, l. c. p. 398 (1863) ..... type *lustralis* GN.  
*Enchocnemidia* LEDERER, l. c. p. 399 (1863) ..... type *vertumnalis* GN.  
*Sisyrophora* LEDERER, l. c. p. 399 (1863) ..... type *psifferrae* LED.  
*Cryptographis* LEDERER, l. c. p. 399 (1863) ..... type *elealis* Wlk.  
*Morocosma* LEDERER, l. c. p. 403 (1863) ..... type *margaritaria* CLCK.  
*Chloauges* LEDERER, l. c. p. 405 (1863) ..... type *suralis* LED.  
*Nolckenia* SNELLEN, Tijd. v. Ent. xviii, p. 222 (1875) ..... type *margaritidis* SNELL.  
*Sestia* SNELLEN, l. c. p. 235 (1875) ..... type *eumusaalis* Wlk.  
*Cadurena* MOORE, Lep. Ceyl. iii, p. 335 (1886) ..... type *sinuata* FABR.  
*Pitana* MOORE, Lep. Atk. p. 217 (1883) ..... type *lativitta* MOOR.  
*Cenocnemis* WARREN, Ann. Mag. Nat. Hist. (6) xviii, p. 116  
 (1896) ..... type *incurvata* WARR.

## Synopsis of Species

- A. Wings black; fore wing with white markings; hind wing with the basal two-thirds white ..... (a-a')
- A.' Wings white, costal and terminal areas black ..... (b-b')
- A." Fore wing fuscous brown, with two small spots in and at the end of cell ..... *M. bipunctalis* LEECH
- A.\*\*\* Wings white, costa ochreous ..... (c-c')
- A.\*\*\*\* Wings white with many fulvous bands ..... (d-d')
- A.\*\*\*\*\* Wings glaucous green, costa fulvous ..... *M. glaucutalis* GN.
- a. Fore wing with a white patch at the middle irregular in shape; with small white spots near the base and below the lower angle of cell ..... *M. quadrimaculalis* BREM. et GREY
- a.' Fore wing with a white patch at the middle elongate in shape; with no white spots near the base and below the lower angle of cell ..... *M. actorionalis* WLK.
- b. Fore wing with cell black and the discocellular lunule white ..... *M. perspectalis* WLK.
- b.' Fore wing lacking a white discocellular lunule ... *M. indica* SAUND.
- c. Fore wing with dark edged ochreous markings in and at the end as well as below cell ..... *M. annulata* FABR.
- c.' Fore wing with small black spots at the basal half of costa; with no dark edged ochreous markings ..... *M. nigropunctalis* BREM.
- d. Hind wing with a black discocellular line ..... *M. pryeri* BUTL.
- d.' Hind wing without black discocellular line ..... *M. pyloalis* WLK.

64. *Margaronia indica* SAUND.

*Eudiotis indica* SAUNDER, Proc. Ent. Soc. Lond. Zoologist, p. 3070 (1851); id., Trans. Ent. Soc. Lond. p. 163, pl. 12, ff. 5-7 (1851); MOORE, Lep. Ceyl. iii, p. 324 (1886); HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 37 (1891); id., l. c. ix, p. 47 (1893); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 511 (1900); WALKER, Cat. Lep. Het. B. M. xviii, p. 514 (1859) (*Phacellura*); MOORE, Proc. Zool. Soc. Lond. p. 93 (1867); BUTLER, Proc. Zool. Soc. Lond. p. 685 (1880); SNELLEN, Tijd. v. Ent. xxvi, p. 141 (1883); SWINHOE, Proc. Zool. Soc. Lond. p. 525 (1884); id., l. c. p. 870 (1885); id., l. c. p. 459 (1886); SWINHOE & COLES, Cat. Moths of Ind. p. 279 (1889); SNELLEN, Trans. Ent. Soc. Lond. p. 611 (1890); MEYRICK, Trans. Ent. Soc. Lond. p. 297 (1884) (*Phacellura*); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 360 (1896) (*Glyphodes*); id., Proc. Zool. Soc. Lond. p. 738 (1898); MATSUMURA, Ill. Zeit. Ent. Berl. Bd. 6, no. 2, p. 22 (1901); STAUDINGER & REBEL, Cat. Lep. Palaeart. ii, p. 54 (1901); LEECH, Trans. Ent. Soc. Lond. p. 471 (1901); MATSUMURA, Cat. Ins. Jap. p. 213 (1905); STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 59 (1918); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 236 (1928) (*Margaronia*).

*Eudiotis capensis* ZELLER, Lep. Microp. Caffr. p. 52 (1852); LEDERER, Wien. Ent. Mon. vii, p. 400 (1863) (*Phacellura*).

*Phacellura gazoralis* GUENÉE, Delt. et Pyr. p. 297 (1854); SEMPER, Verh. Zool.-Bot. p. 702 (1867); LEDERER, l. c. p. 400 (1863) (*Phacellura*).

*Phacellura zyaenalis* GUENÉE, Delt. et Pyr. p. 297 (1854); WALKER, Cat. Lep. Het. B. M. xviii, p. 515 (1859).

*Eudloptis hyalinata* SHIRAKI (nec LINN.), Bul. Agr. Exp. Sta. Gov.-Gen. Formosa, I, p. 119, pl. 13, f. 7 (1910); id., l. c. viii, p. 362 (1913).

This species was first recorded as occurring in Japan by Prof. S. MATSUMURA in 1901.

**Loc. Distr.:** Nikko (WILEMAN); Tokyo (?); Yokohama (?); Yoshino (WILEMAN); Nagahama (LEECH); Kiushu (LEECH).

**Gen. Distr.:** Ethiopian, Oriental & Australian regions (HAMPSON); Korea; Formosa; Japan.

### 65. *Margaronia perspectalis* Wlk.

*Phacellura perspectalis* WALKER, Cat. Lep. Het. B. M. xviii, p. 515 (1859); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 353 (1896); id., Proc. Zool. Soc. Lond. p. 738 (1898); LEECH, Trans. Ent. Soc. Lond. p. 472 (1901); MATSUMURA, Cat. Ins. Jap. p. 213 (1905); MARUMO, Jour. Col. Agr. Tokyo Imp. Univ. viii (11), p. 195 (1923).

*Glyphodes albifuscalis* HAMPSON, Proc. Zool. Soc. Lond. p. 739, pl. L, f. 12 (1898); LEECH, l. c. p. 472 (1901); WILEMAN (part), Trans. Ent. Soc. Lond. p. 382 (1911).

*Phacellura advenalis* LEDERER, Wien. Ent. Mon. vii, pp. 401, 478, pl. 13, f. 17 (1863).

This species was first recorded from Japan as *P. advenalis* LED. by LEDERER in 1863.

**Loc. Distr.:** Morioka (?); Hakodate (?)\*; Kyoto (TAKAGI); Yanagawa (TAKAMUKU); Satsuma (WILEMAN); Nikko (WILEMAN); Yoshino (WILEMAN); Yokohama (?).

**Gen. Distr.:** China; India; Japan.

### 66. *Margaronia nigropunctalis* BREM.

*Margarodes nigropunctalis* BREMER, Lep. Ost.-Sib. p. 67, pl. 6, f. 5 (1864); SNELLEN, Trans. Ent. Soc. Lond. p. 610 (1890) (*Margaronia*); HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 37 (1891); id., l. c. ix, p. 47 (1893); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 505 (1900); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 352 (1896) (*Glyphodes*); id., Proc. Zool. Soc. Lond. p. 739 (1898); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 54 (1901); LEECH, Trans. Ent. Soc. Lond. p. 472 (1901); MATSUMURA, Cat. Ins. Jap. p. 213 (1905); id., Jour. Col. Agr. Hokkaido Imp. Univ. xv (3), p. 189 (1925); STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 44 (1918) (*Cydatima*).

*Botys submarginalis* WALKER, Cat. Lep. Het. B. M. xxxiv, p. 1414 (1865); SWINHOE, Proc. Zool. Soc. Lond. p. 871 (1885) (*Cydatima*); SWINHOE & COTES, Cat. Moths of Ind. p. 617 (1889).

*Glyphodes neomera* BUTLER, Ill. Typ. Sp. Het. B. M. ii, p. 57, pl. 39, f. 5 (1878).

*Glyphodes neomera* BUTL. was described from Japan. This species

\*According to LEECH.

seems to occur fairly commonly throughout Japan.

**Loc. Distr.:** Sapporo (MATSUMURA); Hakodate (LEECH); Nikko (MATSUMURA); Yokohama (PRYER); Gumma (TOBA); Yoshino (WILEMAN); Satsuma (LEECH).

**Gen. Distr.:** India; Ceylon; Siberia; Korea; Formosa; Japan; Saghalien.

### 67. *Margaronia annulata* FABR.

*Phalaena annulata* FABRICIUS, Ent. Syst. iii (2), p. 212 (1794); SWINHÖE, Cat. Het. Mus. Oxf. ii, p. 505 (1900); HAMPSON, Proc. Zool. Soc. Lond. p. 740 (1898) (*Glyphodes*); HERING, Stett. Ent. Zeit. 62, p. 256 (1901) (*Margaronia*); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 237, pl. viii, f. 15 (1928).

*Botys celsalis* WALKER, Cat. Lep. Het. B. M. xviii, p. 654 (1859); SWINHÖE, Proc. Zool. Soc. Lond. p. 871 (1885) (*Margaronia*); MOORE, Lep. Ceyl. iii, p. 325, pl. 181, f. 4 (1886); SWINHÖE & COTES, Cat. Moths of Ind. p. 618 (1889); SWINHÖE, Trans. Ent. Soc. Lond. p. 279 (1890); SNELLEN, Trans. Ent. Soc. Lond. p. 610 (1890); HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 37 (1891); id., l. c. ix, p. 47 (1893); MEYRICK, Trans. Ent. Soc. Lond. p. 6 (1894); id., l. c. p. 87 (1897); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 352 (1896) (*Glyphodes*); LEECH, Trans. Ent. Soc. Lond. p. 473 (1901); MATSUMURA, Cat. Ins. Jap. p. 213 (1905).

*Botys partialis* LEDERER, Wien. Ent. Mon. vii, pp. 371, 465, pl. 9, f. 8 (1863).

*Margaronia inusitata* BUTLER, Ann. Mag. Nat. Hist. (5) iv, p. 454 (1879).

The type specimen of *M. inusitata* BUTL. was collected in Yokohama by PRYER, and is now in the collection of the British Museum.

**Loc. Distr.:** Chichibu (HIRAYAMA); Yokohama (PRYER); Yoshino (WILEMAN); Awa (WILEMAN); Higo (LEECH, WILEMAN); Nagasaki (LEECH); Osumi (WILEMAN).

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

### 68. *Margaronia glauculalis* GN.

*Margarodes glauculalis* GUENÉE, Delt. et Pyr. p. 306 (1854); LEDERER, Wien. Ent. Mon. vii, p. 398 (1863); SNELLEN, Tijds. v. Ent. xxvi, p. 140 (1883); WALKER, Cat. Lep. Het. B. M. xviii, p. 532 (1859) (*Margaronia*); MOORE, Lep. Ceyl. iii, p. 325, pl. 181, ff. 2, 2 a (1886); SWINHÖE & COTES, Cat. Moths of Ind. p. 618 (1889); HAMPSON, Ill. Typ. Sp. Het. B. M. ix, p. 47 (1893); MEYRICK, Trans. Ent. Soc. Lond. p. 456 (1894); SWINHÖE, Cat. Het. Mus. Oxf. ii, p. 503 (1900); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 350 (1896) (*Glyphodes*); id., Proc. Zool. Soc. Lond. p. 741 (1898); WILEMAN, Trans. Ent. Soc. Lond. p. 382 (1911).

*Margaronia marthesiusalis* WALKER, l. c. xviii, p. 531 (1859); SWINHÖE, l. c. p. 504 (1900); MOORE, Proc. Zool. Soc. Lond. p. 94 (1867), id., l. c. p. 850 (1878) (*Pachyarches*); SWINHÖE & COTES, l. c. p. 619 (1889); SWINHÖE, Trans. Ent. Soc. Lond. p. 279 (1890).

*Margaronia vertumnalis* SWINHÖE (nec GN.), Proc. Zool. Soc. Lond. p. 871 (1885).

*Margarodes nereis* MEYRICK, Trans. Ent. Soc. Lond. p. 271 (1887).

This species was first recorded from Japan by WILEMAN in 1911.

**Loc. Distr.:** Yoshino (WILEMAN).

**Gen. Distr.:** India; Ceylon; Burma; Sumatra; Singapore; Java; New Guinea; Borneo; Japan.

### 69. *Margaronia quadrimaculalis* BREM. et GREY

*Botys quadrimaculalis* BREMER et Grey, Beitr. Schmett.-Faun. China, p. 22 (1853); BREMER, Lep. Ost-Sib. p. 70, pl. vi, f. 11 (1864); WALKER, Cat. Lep. Het. B. M. xix, p. 934 (1859) (*Desmia* ?); LEDERER, Wien. Ent. Mon. vii, p. 402 (1863) (*Glyphodes*); PRYER, Trans. Asiat. Soc. Jap. xiii (1), p. 62 (1885); HAMPSON, Proc. Zool. Soc. Lond. p. 742 (1898); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 55 (1901); LEECH, Trans. Ent. Soc. Lond. p. 473 (1901); MATSUMURA, Cat. Ins. Jap. p. 213 (1905); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 508 (1900) (*Margaronia*).

*Glyphodes consocialis* LEDERER, Wien. Ent. Mon. vii, p. 402, pl. 14, f. 2 (1863).

In 1885, PRYER recorded this species as occurring in Japan.

**Loc. Distr.:** Sapporo (MATSUMURA); Hakodate (LEECH, FLETCHER); Junsainuma (WILEMAN); Nikko (WILEMAN); Tokyo (?); Chichibu (HIRAYAMA); Yokohama (?); Yoshino (WILEMAN); Higo (WILEMAN); Kumamoto (KAWAMURA).

**Gen. Distr.:** Siberia; China; Korea; Japan.

### 70. *Margaronia actorionalis* Wlk.

*Glyphodes actorionalis* WALKER, Cat. Lep. Het. B. M. xvii, p. 498 (1859); MOORR, Proc. Zool. Soc. Lond. p. 92 (1867); id., l. c. p. 618 (1877); SWINHOE, Proc. Zool. Soc. Lond. p. 871 (1885); MEYRICK, Trans. Ent. Soc. Lond. p. 224 (1886); MOORE, Lep. Ceyl. iii, p. 322, pl. 180, f. 1 (1886); SWINHOE & COTES, Cat. Moths of Ind. p. 613 (1889); HAMPSON, Ill. Typ. Sp. Het. B. M. ix, p. 47 (1893); HAMPSON, Proc. Zool. Soc. Lond. p. 742 (1898); STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 58 (1918); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 508 (1900) (*Margaronia*); SHIRUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 238, pl. viii, f. 23 (1928).

*Glyphodes zelleri* LEDERER, Wien. Ent. Mon. vii, pp. 402, 478, pl. 14, f. 3 (1863); SNELLEN, Trans. Ent. Soc. Lond. p. 612 (1890).

*Lypotigris jovialis* FELDER & ROGENHOFER, Novara, Lep. II (2), pl. 136, f. 25 (1874); SNELLEN, Tijds. v. Ent. xxvi, p. 141 (1883) (*Glyphodes*).

In the Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 238, I gave also Japan as a locality of this species, and so far as my studies go, no one had reported this species as occurring in Japan before that time. There are four specimens in WILEMAN's private collection and they are as follows:

1 ♂, 7-viii-1895, Kiire in Satsuma.

1 ♀, 10-viii-1895, Makurazaki in Satsuma.

1 ♂, 1 ♀, 21-ix-1895, Otsuka in Hyuga.

**Loc. Distr.:** Satsuma (WILEMAN); Hyuga (WILEMAN).

**Gen. Distr.:** India; Ceylon; Borneo; Java; Formosa; Japan.

**71. *Margaronia pryeri* BUTL.**

*Glyphodes pryeri* BUTLER, Ann. Mag. Nat. Hist. (5) iv, p. 453 (1879); HAMPSON, Proc. Zool. Soc. Lond. p. 746 (1893); LEECH, Trans. Ent. Soc. Lond. p. 474 (1901); MATSUMURA, Cat. Ins. Jap. p. 213 (1905); NAWA, Konchu-sekai (The Insect World), xxix (6), p. 4 (1925); YOKOYAMA, Konchu-sekai, xxix (7), p. 11 (1925).

The type specimen of this species was collected by PRYER in Yokohama and is now preserved in the British Museum. This seems to occur commonly throughout Japan.

**Loc. Distr.:** Sapporo (MATSUMURA); Hakodate (LEECH); Iwate (OGASAWARA); Tokyo (FENTON); Yokohama (PRYER, WILEMAN); Fushiki (LEECH) Tosa (WILEMAN); Hyuga (WILEMAN).

**Gen. Distr.:** China; Japan.

**72. *Margaronia pyloalis* Wlk.**

*Glyphodes pyloalis* WALKER, Cat. Lep. Het. B. M. xix, p. 973 (1859); MOORE, Lep. Ceyl. iii, p. 321, pl. 180, f. 3 (1886); SWINHOE & COTES, Cat. Moths of Ind. p. 615 (1889); HAMPSON, Ill. Typ. Sp. Het. B. M. ix, p. 47 (1893); id., Faun. Brit. Ind. Moths, iv, p. 357 (1896); id., Proc. Zool. Soc. Lond. p. 746 (1898); HERING, Stett. Ent. Zeit. 62, p. 268 (1901); LEECH, Trans. Ent. Soc. Lond. p. 474 (1901); MATSUMURA, Cat. Ins. Jap. p. 213 (1905); SHIRAKI, Bul. Agr. Exp. Sta. Gov.-Gen. Formosa, viii, p. 373 (1913); MAKI, Report on Mulberry pest, p. 113 (1916); YOKOYAMA, Bul. Seric. Exp. Sta. Tokyo, vol. 2, no. 2 (1925); NAWA, Konchu-sekai, xxix (6), p. 4 (1925); YOKOYAMA, Konchu-sekai, xxix (7), p. 11 (1925); STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 58 (1918); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 510 (1900) (*Margaronia*); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 240 (1928).

*Glyphodes sylpharis* BUTLER, Ill. Typ. Sp. Het. B. M. ii, p. 57, pl. 39, f. 2 (1878).

*Glyphodes sylpharis* BUTL. was described from Japan.

**Loc. Distr.:** Hakodate (ANDREWS); Yokohama (PRYER, STICHEL); Yoshino (WILEMAN); Wakayama (SAKAGUCHI); Iyo (ARAKAWA); Tosa (WILEMAN); Nagasaki (LEECH); Satsuma (WILEMAN); Kagoshima (WILEMAN); Kumamoto (WILEMAN).

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

P. S. This species was first recorded as occurring in Formosa by Dr. T. SHIRAKI in 1913, and not by STRAND in 1918 as stated by SHIBUYA.\*

**73. *Margaronia bipunctalis* LEECH**

*Glyphodes bipunctalis* LEECH, Entom. xxii, p. 70, pl. iii, f. 2 (1889); HAMPSON, Proc. Zool. Soc. Lond. p. 747 (1898); LEECH, Trans. Ent. Soc. Lond. p. 474 (1901); MATSUMURA, Cat. Ins. Jap. p. 213 (1905).

This species was also described from Japan, the type specimen of

\* Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 8 (1928).

which was collected in Satsuma and is now in the collection of the British Museum.

**Loc. Distr.:** Nagasaki (LEECH); Satsuma (LEECH); Hyuga (WILEMAN); Kagoshima (WILEMAN); Osumi (WILEMAN); Higo (WILEMAN); Yanagawa (TAKAMUKU).

**Gen. Distr.:** Korea; Japan.

### Genus *Polythlipta* LED.

*Polythlipta* LEDERER, Wien. Ent. Mon. vii, p. 339 (1863) ..... type *macralis* LED.

#### 74. *Polythlipta liquidalis* LEECH

*Polythlipta liquidalis* LEECH, Entom. xxii, p. 70, pl. iii, f. 8. (1889); HAMPSON, Proc. Zool. Soc. Lond. p. 752 (1898); LEECH, Trans. Ent. Soc. Lond. p. 475 (1901); WILEMAN, Trans. Ent. Soc. Lond. p. 383 (1911).

This species was first recorded as occurring in Japan by WILEMAN in 1911.

**Loc. Distr.:** Yoshino (WILEMAN); Iyo (WILEMAN); Satsuma (WILEMAN); Higo (WILEMAN).

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

### Genus *Oebia* HBN.

*Oebia* HUEBNER, Verz. Schmett. p. 362 (1826) ..... type *undalis* FABR.  
*Hellula* GUENÉE, Delt. et Pyr. p. 415 (1854) ..... type *undalis* FABR.

#### 75. *Oebia undalis* FABR.

*Phalaena undalis* FABRICIUS, Ent. Syst. iii (2), p. 226 (1794); HUEBNER, Smml. Eur. Schmett. Pyr. p. 19, pl. 14, f. 93 (1796) (*Pyralis*); id., Verz. Schmett. p. 362 (1826) (*Oebia*); HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 34 (1891); id., l. c. ix, p. 44 (1893); TREISTCHKE, Schmett. Eur. vii, p. 128 (1829) (*Nymphula*); DUPONCHEL, Hist. Nat. Lep. Fr. viii, p. 160 (1830); id., l. c. pl. 221, f. 1 (1832); HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 10, pl. 8, f. 54 (1848); id., l. c. pl. 12, f. 83 (1849); GUENÉE, Delt. et Pyr. p. 416 (1854) (*Hellula*); WALKER, Cat. Lep. Het. B. M. xix, p. 813 (1859); LEDERER, Wien. Ent. Mon. vii, p. 351 (1863); MEYRICK, Trans. Ent. Soc. Lond. p. 317 (1884); id., l. c. p. 229 (1890); id., l. c. p. 8 (1894); MOORE, Lep. Ceyl. iii, p. 355 (1886); SWINHOE & COTES, Cat. Moths of Ind. p. 664 (1889); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 373 (1896); id., Proc. Zool. Soc. Lond. p. 760 (1898); LEECH, Trans. Ent. Soc. Lond. p. 476 (1901); DYAR, Cat. N. Amer. Lep. p. 379 (1902); MATSUMURA, Cat. Ins. Jap. p. 224 (1905); SHIRAKI, Bul. Agr. Exp. Sta. Gov.-Gen. Formosa, I, p. 121, pl. 31, f. 1 (1910); id., l. c. viii, p. 363 (1913); STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 63 (1918); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 518 (1900) (*Oebia*); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 246 (1928).

*Scoparia* ? *alconalis* WALKER, Cat. Lep. Het. B. M. xix, p. 827 (1859).

*Leucinodes exemptalis* WALKER, l. c. xxxiv, p. 1313 (1865).

*Botis rogatalis* HULST, Tr. Am. Ent. Soc. xiii, p. 149 (1886).

Recorded first from Japan by LEECH in 1901.

**Loc. Distr.:** Hakodate (ANDREWS); Japan (PRYER).

**Gen. Distr.:** U. S. A.; Europe; St. Helena; Africa; India; Ceylon; China; Philippines; Formosa; Japan.

### Genus *Thliptoceras* SWINH.

*Thliptoceras* SWINHOE, Trans. Ent. Soc. Lond. p. 274 (1890) ..... type *variabilis* SWINH.

#### 76. *Thliptoceras variabilis* SWINH.

*Thliptoceras variabilis* SWINHOE, Trans. Ent. Soc. Lond. p. 274 (1890); HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 35, pl. 156, ff. 2, 10 (1891); id., l. c. ix, p. 44 (1893); id. (part), Faun. Brit. Ind. Moths, iv, p. 377 (1896); id., Proc. Zool. Soc. Lond. p. 179 (1899); LEECH, Trans. Ent. Soc. Lond. p. 477 (1901); MATSUMURA, Cat. Ins. Jap. p. 214 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 249 (1928).

*Circobotys* ? *phycidalis* SNELIEN, Trans. Ent. Soc. Lond. p. 599 (1890).

This species may be distinguished from *T. cascalis* SWINH. from India by the ground colour of wings being bright yellow, and with a postmedial line to the fore wing being nearly vertical from costa to about vein 3.

In 1896, HAMPSON gave Japan as a locality of this species. However I have hitherto not been able to obtain any specimen of this species in this country.

**Loc. Distr.:** ?

**Gen. Distr.:** India; Burma; Formosa; Japan.\*

### Genus *Ischnurges* LED.

*Ischnurges* LEDERER, Wien. Ent. Mon. vii, p. 418 (1863) ..... type *illustralis* LED.

*Nesolocha* MEYRICK, Trans. Ent. Soc. Lond. p. 239 (1886) ..... type *illustralis* LED.

*Rhectothyris* WARREN, Ann. Mag. Nat. Hist. (6) vi, p. 474 (1890) ... type *gratiosalis* WLK.

*Stenochora* WARREN, l. c. (6) ix, p. 298 (1892) ..... type *lancinalis* GN.

*Prorphantis* WARREN, l. c. (6) xviii, p. 113 (1896) ..... type *octoguttalis* F. et R.

#### 77. *Ischnurges octoguttalis* FELD. et ROG.

*Botys octoguttalis* FELDER et ROGENHOFER, Reis. Novara, Lep. II (2), pl. 135, f. 38 (1874); MOORE, Lep. Ceyl. iii, p. 343, pl. 182, f. 11 (1886) (*Circobotys*); SWINHOE & COTES, Cat. Moths of Ind. p. 604 (1889); HAMPSON, Ill. Typ. Sp. Het. B. M. viii, p. 35 (1891) (*Archernis*); id.,

\* According to HAMPSON.



l. c. ix, p. 44 (1893); id., Faun. Brit. Ind. Moths, iv, p. 378 (1896) (*Thliptoceras*); id., Proc. Zool. Soc. Lond. p. 179 (1899); MEYRICK, Trans. Ent. Soc. Lond. p. 464 (1894) (*Ischnurges*); WILEMAN, Trans. Ent. Soc. Lond. p. 383 (1911); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 252, pl. ix, f. 11 (1928).

*Pyraüs smaragdina* BUTLER, Ann. Mag. Nat. Hist. (4) xvi, p. 411 (1875).

This species was first recorded as occurring in Japan by WILEMAN in 1911.

**Loc. Distr.:** Yoshino (WILEMAN).

**Gen. Distr.:** India; Ceylon; Borneo; Australia; Singapore; Formosa; Japan.

### Genus *Omphisa* MOOR.

*Omphisa* MOORE, Lep. Ceyl. iii, p. 317 (1886) ..... type *illialis* WLK.

### 78. *Omphisa plagialis* WLMN.

*Pionea* ? *plagialis* WILEMAN, Trans. Ent. Soc. Lond. p. 387 (1911); SHIBUYA, Ins. Mats. ii (2), p. 100 (1927) (*Omphisa*).

*Omphisa albais* CARADJA, Rom. Mem. Sect. Stiint. III (3), mem. 7, p. 99, pl. ii, f. 53 (1925).

The type specimen of WILEMAN's species was collected in Yoshino, and is now in WILEMAN's private collection.

**Loc. Distr.:** Sapporo (MATSUMURA); Morioka (?) Yoshino (WILEMAN); Kyoto (?).

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

### Genus *Evergestis* HBN.

*Evergestis* HUEBNER, Verz. Schmett. p. 354 (1826) ..... type *extimalis* SCOP.

*Homochroa* HUEBNER, l. c. p. 358 (1826) ..... type *aenealis* SCHIFF. et DEN.

*Scopolia* HUEBNER, l. c. p. 368 (1826) ..... type *sophialis* FABR.

*Ardis* GROTE, Bul. U. S. Geol. Surv. Terr. iv, p. 670 (1878) ... type *funalis* GROTE

*Paraedis* GROTE, New Check List N. Am. Moths, p. 51

(1882) ..... type *funalis* GROTE

*Pachyzancloides* MATSUMURA, Jour. Col. Agr. Hokkaido Imp.

Univ. xv (3), pp. 190, 191 (1925) ..... type *junctalis* WARR.

### Synopsis of Species

- a. Wings pale ochreous-yellow; terminal area of the fore wing brown ...  
 ..... *E. extimalis* SCOP.  
 a' Wings fuscous, with yellow patches ..... *E. junctalis* WARR.

**79. *Evergestis extimalis* SCOP.**

*Phalaena extimalis* SCOPOLI, Ent. Carn. p. 241 (1763); MEYRICK, Brit. Lep. p. 424 (1895) (*Evergestis*); HAMPSON, Proc. Zool. Soc. Lond. p. 186 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 56 (1901); LEECH, Trans. Ent. Soc. Lond. p. 478 (1901); MATSUMURA, Jour. Col. Agr. Hokkaido Imp. Univ. xv (3), p. 189 (1925); WILEMAN, Trans. Ent. Soc. Lond. p. 385 (1911).

*Pyralis margarialis* SCHIFFERMÜLLER et DENIS, Syst. Schmett. Wien. p. 123 (1775).

*Pyralis erucalis* HUEBNER, Samml. Eur. Schmett. Pyr. pl. 9, f. 55 (1796).

*Evergestis consimilis* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 123 (1892).

Recorded first by WILEMAN from Japan in 1911. In 1925, Prof. MATSUMURA also recorded this species from Saghalien, and it seems to occur fairly commonly in that part.

**Loc. Distr.:** Teshio (WILEMAN); Sapporo (MATSUMURA); Junsainuma (WILEMAN).

**Gen. Distr.:** Europe; U. S. A.; China; Korea; Japan; Saghalien.

**80. *Evergestis junctalis* WARR.**

*Mesographe junctalis* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 434 (1892); HAMPSON, Proc. Zool. Soc. Lond. p. 186 (1899) (*Evergestis*); LEECH, Trans. Ent. Soc. Lond. p. 478 (1901); MATSUMURA, Cat. Ins. Jap. p. 214 (1905).

*Pachyzanclodes sexmaculosus* MATSUMURA, Jour. Col. Agr. Hokkaido Imp. Univ. xv (3), p. 190, pl. xi, f. 27 (1925).

The type specimen of WARREN's species was taken in Hokkaido, and *P. sexmaculosus* MATS. was described from S. Saghalien, the former is now preserved in the collection of the British Museum, and the latter in the Entomological Museum, Sapporo. This species seems to occur fairly commonly in Hokkaido.

**Loc. Distr.:** Mt. Daisetsu (MATSUMURA); Sapporo (MATSUMURA); To-betsu (WILEMAN); Hakodate (ANDREWS); Junsainuma (WILEMAN).

**Gen. Distr.:** China; Japan; Saghalien.

Genus *Hyalobathra* MEYR.

*Hyalobathra* MEYRICK, Trans. Ent. Soc. Lond. p. 445 (1885) ..... type *archeleuca* MEYR.

*Isocentris* MEYRICK, l. c. p. 232 (1887) ..... type *filalis* GN.

*Leucocraspeda* WARREN, Ann. Mag. Nat. Hist. (6) vi, p. 475 (1890) ... type *archeleuca* MEYR.

**81. *Hyalobathra contubernalis* MOOR.**

*Hedylepta contubernalis* MOORE, Lep. Atk. p. 203 (1887); SWINHOE & COTES, Cat. Moths of Ind. p. 640 (1889); HAMPSON (*part*), Faun. Brit. Ind. Moths, iv, p. 387 (1896); id., Proc. Zool. Soc. Lond. p. 190 (1899).

So far as my studies go, no one has hitherto been recorded this species as occurring in Japan. I have a single female specimen taken in Yanagawa, Kiushu on the 5th of July, 1916 by TAKAMUKU. There is a Japanese specimen in the collection of the British Museum, taken in Hakodate by ANDREWS, which is identifiable with *H. contubernalis* MOOR.

**Loc. Distr.:** Hakodate (ANDREWS); Yanagawa (TAKAMUKU).

**Gen. Distr.:** India; Japan.

### Genus *Crocidophora* LED.

- Crocidophora* LEDERER, Wien. Ent. Mon. vii, p. 386 (1863)..... type *tubercularis* LED.  
*Circofolys* BUTLER, Ill. Typ. Sp. Het. B. M. iii, p. 77 (1879)..... type *nycterina* BUTL.  
*Chobera* MOORE, Lep. Atk. p. 219 (1888) ..... type *pallida* MOOR.  
*Tanaophysa* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 389 (1892) ... type *adornatalis* WARR.  
*Nimocomma* WARREN, l. c. (6) xvi, p. 473 (1895) ..... type *flavimargo* WARR.  
*Polychorista* WARREN, l. c. (6) xviii, p. 109 (1896) ..... type *caevatalis* SWINH.

### Synopsis of Species

- A. Fore wing very narrow, termen oblique; hind wing triangular in shape ..... (a-a')
- A'. Fore wing of normal width, termen moderately oblique ..... (d-d')
- a. Wing fuscous very slightly tinged with yellow ..... (b-b')
- a'. Wings yellowish ..... (c-c')
- b. Fore wing with dark lines and discocellular lunule ... *C. nycterina* BUTL.
- b'. Fore wing with no lines and discocellular lunule .....  
 ..... *C. flaviciliata* HMPSN.
- c. Fore wing golden-yellow with no trace of marking; hind wing paler .....  
 ..... *C. aurealis* LEECH
- c'. Wings yellow, the outer half slightly tinged with fuscous, with dark lines and discocellular lunule ..... *C. heterogenalis* BREM.
- d. Fore wing red-brown, without any trace of marking; hind wing brownish white ..... *C. uniformis* HMPSN.
- d'. Wings fulvous orange, termens dark purple; lines dark .....  
 ..... *C. evenoralis* WLK.

### 82. *Crocidophora uniformis* HMPSN.

*Phlyctaenodes uniformis* HAMPSON, Ann. Mag. Nat. Hist. (8) xi, p. 517 (1913).

The type specimen of this species was collected by LEECH in August,

1886 at Sakata, and is now preserved in the collection of the British Museum.

**Loc. Distr.:** Sakata (LEECH).

**Gen. Distr.:** Japan.

### 83. *Crocidophora evenoralis* Wlk.

*Pionea evenoralis* WALKER, Cat. Lep. Het. B. M. xix, p. 1012 (1859); id., l. c. p. 1015 (1859) (*Scopula*); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 591 (1896) (*Crocidophora*); id., Proc. Zool. Soc. Lond. p. 193 (1899); LEECH, Trans. Ent. Soc. Lond. p. 479 (1901); MATSUMURA, Cat. Ins. Jap. p. 214 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 256, pl. ix, f. 20 (1928).

*Botys mandarinialis* LEECH, Entom. xxii, p. 68, pl. 3, f. 14 (1889).

The female type specimen of *B. mandarinialis* LEECH was described from Japan (Tsuruga), and is now in the British Museum.

**Loc. Distr.:** Sapporo (MATSUMURA); Nikko (WILEMAN); Kyoto (OGUMA); Nara (WILEMAN, SAKAGUCHI); Yoshino (WILEMAN); Shinano (MIWA); Nagahama (LEECH); Tsuruga (LEECH); Kagoshima (WILEMAN); Japan (PRYER).

**Gen. Distr.:** Burma; China; Formosa; Japan.

### 84. *Crocidophora heterogenalis* BREM.

*Omiodes heterogenalis* BREMER, Lep. Ost-Sib. p. 70, pl. 6, f. 11 (1864); HAMPSON, Proc. Zool. Soc. Lond. p. 193 (1899) (*Crocidophora*); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 56 (1901); LEECH, Trans. Ent. Soc. Lond. p. 479 (1901); MATSUMURA, Cat. Ins. Jap. p. 214 (1905).

*Crocidophora ? gensanalis* SOUTH, Trans. Ent. Soc. Lond. p. 481, pl. xv, f. 9 (1901); WILEMAN, Trans. Ent. Soc. Lond. p. 384 (1911) (*Circobotys*).

As far as my investigations go, I could not find any particular difference between *C. heterogenalis* BREM. and *C. ? gensanalis* SOUTH as to separate one from another. Therefore I have in this paper treated with the latter as a synonym of the former.

This species was first recorded as occurring in Japan by HAMPSON in 1899.

**Loc. Distr.:** Sapporo (MATSUMURA); Yoshino (WILEMAN); Japan (PRYER).

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

p. s.—The type specimen of *C. ? gensanalis* SOUTH is not a female as stated by SOUTH.

### 85. *Crocidophora nycterina* BUTL.

*Circobotys nycterina* BUTLER, II, Typ. Sp. Het. B. M. iii, p. 77, pl. 59, f. 14 (1879); HAMPSON, Proc. Zool. Soc. Lond. p. 193 (1899) (*Crocidophora*); LEECH, Trans. Ent. Soc. Lond. p. 480 (1901)

(part); MATSUMURA, Cat. Ins. Jap. p. 214 (1905).

Described from Japan, the type specimen of which is now preserved in the collection of the British Museum.

**Loc. Distr.:** Sapporo (SHIBUYA); Tokyo (HIRAYAMA); NIKKO (HIRAYAMA); Yokohama (JONAS); Yoshino (WILEMAN); Kobe (WILEMAN); Beppu (WILEMAN); Higo (WILEMAN).

**Gen. Distr.:** Japan.

### 86. *Crocidophora flaviciliata* HAMPSON.

*Crocidophora flaviciliata* HAMPSON, Proc. Zool. Soc. Lond. p. 502, pl. xli, f. 4 (1910).

*Circobotys aurimargo* WILEMAN (nec WARR.), Trans. Ent. Soc. Lond. p. 384 (1911).

This species may be separated from *C. aurimargo* WARR. in the following points:

1. Fore wing without ante- and postmedial lines.
2. Hind wing with termen elbowed at middle.
3. Larger in size.

WILEMAN wrongly identified the Japanese specimen he collected as *C. aurimargo* WARR.

**Loc. Distr.:** Tokyo (WILEMAN); Yoshino (WILEMAN); Higo (WILEMAN); Nagasaki (?).

**Gen. Distr.:** Africa; Formosa; Japan.

### 87. *Crocidophora aurealis* LEECH

*Botyodes aurealis* LEECH, Entom. xxii, p. 69, pl. iii, f. 7 (1889); HAMPSON, Proc. Zool. Soc. Lond. p. 710 (1898); LEECH, Trans. Ent. Soc. Lond. p. 463 (1901); MATSUMURA, Cat. Ins. Jap. p. 211 (1905).

Described from Japan. The type specimen is in the British Museum.

**Loc. Distr.:** Tokyo (WILEMAN); Kyoto (SUZUKI); Yoshino (WILEMAN); Karuizawa (WILEMAN); Beppu (WILEMAN); Nagasaki (LEECH); Satsuma (LEECH).

**Gen. Distr.:** China; Japan.

### Genus *Maruca* Wlk.

*Maruca* WALKER, Cat. Lep. Het. B. M. xviii, p. 540 (1859) ..... type *testulalis* GEYER  
*Crochiphora* GEYER et HUEBNER, Smml. Exot. Schmett. iv, p.

12 (1832) non descr. .... type *testulalis* GEYER

*Siriocauta* LEDERER, Wien. Ent. Mon. vii, p. 424 (1863) ..... type *testulalis* GEYER

88. *Maruca testulalis* GEYER

*Crochiphora testulalis* GEYER, HUEBNER, Smml. Exot. Schmett. iv, p. 12, ff. 629, 630 (1832); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 522 (1900); GUENÉE, Delt. et Pyr. p. 247 (1854) (*Stenia*); WALKER, Cat. Lep. Het. B. M. xvii, p. 420 (1859); LEDERER, Wien. Ent. Mon. vii, p. 424 (1863) (*Siriocauta*); SNELLEN, Tijd. v. Ent. xxvii, p. 39 (1884); id., Trans. Ent. Soc. Lond. p. 623 (1890); MEYRICK, Trans. Ent. Soc. Lond. pp. 10, 468 (1894); MOORE, Lep. Ceyl. iii, p. 298 (1885) (*Maruca*); SWINHOE & COTES, Cat. Moths of Ind. p. 622 (1889); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 393 (1896); id., Proc. Zool. Soc. Lond. p. 194 (1899); MATSUMURA, Ill. Zeit. Ent. Bul. Bd. 6, No. 2, p. 22 (1901); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 259 (1901); LEECH, Trans. Ent. Soc. Lond. p. 482 (1901); MATSUMURA, Cat. Ins. Jap. p. 215 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 258 (1928).

*Hydrocampe aquatilis* (Boisd.) GUER-MEN., Cuv. Icon. Anim. Ins. p. 524, pl. 90, f. 9 (1844); WALKER, l. c. xviii, p. 540 (1859) (*Maruca*); BUTLER, Proc. Zool. Soc. Lond. p. 685 (1880).

This species was first recorded as occurring in Japan by HAMPSON in 1896. Appears very commonly throughout Japan.

**Loc. Distr.:** Sapporo (SHIBUYA); Hakodate (ANDREWS); Tokyo (WILEMAN); Yokohama (?); Yoshino (WILEMAN); Hakone (LEECH); Nagahama (LEECH); Shimonoseki (LEECH); Oiwake (LEECH); Satsuma (LEECH); Daisen (MATSUMURA).

**Gen. Distr.:** Tropical zone (HAMPSON); Formosa; Japan.

Genus *Nomophila* HBN.

*Nomophila* HUEBNER, Verz. Schmett. p. 368 (1826) ..... type *noctuella* SCHIFF. et DEN.

*Stenopteryx* DUPONCHEL, Cat. Lep. Eur. p. 209 (1845) ..... type *noctuella* SCHIFF. et DEN.

89. *Nomophila noctuella* SCHIFF. et DEN.

*Tinea noctuella* SCHIFFERMÜLLER et DENIS, Syst. Schmett. Wien. p. 136 (1775); LEDERER, Wien. Ent. Mon. vii, p. 379 (1863) (*Nomophila*); MEYRICK, Trans. Ent. Soc. Lond. p. 306 (1884); MOORE, Lep. Ceyl. iii, p. 356 (1886); SWINHOE & COTES, Cat. Moths of Ind. p. 665 (1889); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 401 (1896); id., Proc. Zool. Soc. Lond. p. 201 (1899); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 525 (1900); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 56 (1901); LEECH, Trans. Ent. Soc. Lond. p. 483 (1901); MATSUMURA, Cat. Ins. Jap. p. 215 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 262 (1928).

*Pyralis hybridalis* HUEBNER, Smml. Eur. Schmett. Pyr. p. 29, pl. 17, f. 114 (1796); id., Verz. Schmett. p. 368 (1826) (*Nomophila*); STEPHENS, Ill. Brit. Ent. Haust. iv, p. 3121 (1839); TREITSCHKE, Schm. Eur. vii, p. 109 (1829) (*Bolys*); DUPONCHEL, Cat. Lep. Eur. p. 209 (1845) (*Stenopteryx*); HERRICH-SCHAEFFER, Syst. Schm. Eur. iv, p. 42 (1848); GUENÉE, Delt. et Pyr. p. 414 (1854); WALKER, Cat. Lep. Het. B. M. xix, p. 812 (1859); BUTLER, Proc. Zool. Soc. Lond. p. 622 (1881); id., l. c. p. 384 (1886); id., Ann. Mag. Nat. Hist. (5) ix, p. 221 (1882); SWINHOE, Proc. Zool. Soc. Lond. p. 525 (1884); id., l. c. p. 876 (1885); id., Trans. Ent. Soc. Lond. p. 354 (1885).

*Nepopteryx indistinctalis* WALKER, l. c. xxvii, p. 59 (1863).

Recorded first by LEECH from Japan in 1901.

**Loc. Distr.:** Asahigawa (MATSUMURA); Sapporo (MATSUMURA); Hako-date (LEECH); Yokohama (WILEMAN); Yoshino (WILEMAN); Awa (WILEMAN); Oshima (WILEMAN); Satsuma (WILEMAN).

**Gen Distr.:** Universal.

### Genus *Psara* SNELL.

- Psara* SNELLEN, Tijds. v. Ent. xviii, p. 239 (1875) ..... type *periusalis* WLK.  
*Pachyzancla* MEYRICK, Trans. Ent. Soc. Lond. p. 315 (1884) ... type *bipunctalis* FABR.  
*Acharana* MOORE, Lep. Ceyl. iii, p. 285 (1885) ..... type *vecordalis* GN.  
*Rhectocraspeda* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 439  
 (1892) ..... type *periusalis* WLK.  
*Piloptila* SWINHOE, Ann. Mag. Nat. Hist. (6) xiv, p. 142 (1894) ..... type *nigricornalis* SWINH.  
*Pantoeocome* WARREN, l. c. (6) xviii, p. 173 (1896) ..... type *dilatatipes* WLK.

### Synopsis of Species

- A. Wings fuscous ..... )a-a').  
 A'. Wings pale yellow; costa broadly dark brown .... *P. marginalis* WARR.  
 a. Postmedial line to each wing not sinuated; postmedial line to the fore wing almost erect from costa to vein 5 ..... *P. fuscescens* WARR.  
 a'. Postmedial line to each wing sinuated; postmedial line to the fore wing bent inwardly between costa and vein 5 ..... (b-b')  
 b. Postmedial line to the fore wing excurved at costa for a short distance then inwardly; both wings with each a series of black specks ..... *P. licarsisalis* WLK.  
 b'. Postmedial line to the fore wing directly bent inwardly from costa; both wings with no terminal series of black specks ..... *P. rudis* WARR.

### 90. *Psara licarsisalis* WLK.

*Botys licarsisalis* WALKER, Cat. Lep. Het. B. M. xviii, p. 686 (1859); HAMPSON, Ill. Typ. Sp. Het. B. M. ix, p. 46 (1893) (*Pharasia*); id., Faun. Brit. Ind. Moths, iv, p. 402 (1896) (*Pachyzancla*); id., Proc. Zool. Soc. Lond. p. 202 (1899); LEECH, Trans. Ent. Soc. Lond. p. 483 (1901); MATSUMURA, Cat. Ins. Jap. p. 215 (1905); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 526 (1900) (*Acharana*); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 263, pl. ix, f. 6 (1923) (*Psara*).

*Botys pharaxalis* WALKER, l. c. xviii, p. 725 (1859).

*Botys immundalis* WALKER, l. c. xxxiv, p. 1443 (1865).

*Entephria? stultalis* BUTLER (nec WLK.), Proc. Zool. Soc. Lond. p. 685 (1880) part.

This species was first recorded from Japan by HAMPSON in 1896.

**Loc. Distr.:** Hokkaido (WILEMAN); Satsuma (LEECH); Japan (PRYER).

**Gen. Distr.:** Syria; Oriental & Australian regions; Formosa; Japan.

**91. *Psara fuscescens* WARR.**

*Acharana fuscescens* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 437 (1892); HAMPSON (part), Proc. Zool. Soc. Lond. p. 204 (1899); LEECH, Trans. Ent. Soc. Lond. p. 484 (1901); MATSUMURA, Cat. Ins. Jap. p. 215 (1905).

Described from Japan, the type specimen of which was collected by PRYER, but the exact locality is unknown.

**Loc. Distr.:** ?

**Gen. Distr.:** Japan.

p. s.—This species may be easily distinguished from *P. bipunctalis* FABR. by the ground colour and markings of wings.

**92. *Psara rudis* WARR.**

*Acharana rudis* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 435 (1892); HAMPSON (part), Faun. Brit. Ind. Moths, iv, p. 405 (1896); id., Proc. Zool. Soc. Lond. p. 204 (1899); LEECH, Trans. Ent. Soc. Lond. p. 484 (1901); MATSUMURA, Cat. Ins. Jap. p. 215 (1905).

Also described from Japan. The type specimen of this species was taken in Yokohama by JONAS and is now preserved in the British Museum.

**Loc. Distr.:** Towada (?); Yokohama (JONAS); Yoshino (WILEMAN); Musashi (WILEMAN); Satsuma (LEECH).

**Gen. Distr.:** China; Japan.

**93. *Psara marginalis* WARR.**

*Goniorhynchus marginalis* WARREN, Ann. Mag. Nat. Hist. (6) xviii, p. 115 (1896); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 404 (1896) (*Pachysancla*); id., Proc. Zool. Soc. Lond. p. 250 (1899); LEECH, Trans. Ent. Soc. Lond. p. 484 (1901); MATSUMURA, Cat. Ins. Jap. p. 215 (1905).

*Goniorhynchus obliquistriga* WARREN, l. c. p. 115 (1896).

This species was first recorded from Japan by LEECH in 1901. However I have hitherto not been able to obtain any specimen of this species in our country.

**Loc. Distr.:** Satsuma (LEECH).

**Gen. Distr.:** India; Japan.

**Genus *Loxostege* HBN.**

*Loxostege* HUEBNER, Verz. Schmett. p. 352 (1826) ..... type *aeruginata* HBN.  
*Emmelia* GEYER, Samml. Exot. Schm. v, p. 8, no. 409 (1837)..... type *venustalis* CRAM.  
*Phlyctaenodes* GUENÉE, Delt. et Pyr. p. 173 (1854) ..... type *pustulalis* HBN.



- Spiodes* GUENÉE, l. c. p. 379 (1854) ..... type *verticalis* LINN.  
*Ephelis* LEDERER, Wien. Ent. Mon. vii, p. 356 (1863) ..... type *cruentalis* HBN.  
*Eurycreon* LEDERER, l. c. p. 376 (1863) ..... type *nudalis* HBN.  
*Protornia* MEYRICK, Trans. Ent. Soc. Lond. p. 317 (1884) ..... type *philocapna* MEYR.  
*Metallarcha* MEYRICK, l. c. p. 331 (1884) ..... type *calliospis* MEYR.  
*Tritaea* MEYRICK, l. c. p. 341 (1884) ..... type *offinitalis* LED.  
*Blepharucha* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 177 (1892)... type *zeile* STOLL  
*Euctenosia* WARREN, l. c. p. 177 (1892)..... type *castalis* WARR.

### Synopsis of Species

- A. Wing whitish or straw colour ..... (a-a')  
 A'. Wings yellowish ..... (b-b')  
 A''. Wings dark fuscous; fore wing with a terminal whitish-ochreous streak  
 ..... *L. sticticalis* LINN.  
 a. Wings straw colour, ciliae white; without markings .....  
 ..... *L. inornatalis* LEECH  
 a'. Wings white; fore wing tinged with sulphur yellow; markings indistinct;  
 hind wing with a blackish apical patch .....  
 ..... *L. pelcalis* SCHIFF. et DEN.  
 b. Wings with dark markings ..... *L. verticalis* LINN.  
 b'. Wings dull greyish yellow; without markings ..... *L. umbrosalis* WARR.

#### 94. *Loxostege pelcalis* SHIFF. et DEN.

*Pyralis pelcalis* SCHIFFERMÜLLER et DENIS, Syst. Schmett. Wien. p. 123 (1775); HUEBNER, Smml. Eur. Schm. Pyr. p. 24, pl. 11, f. 70 (1796); FABRICIUS, Ent. Syst. iii (2), p. 231 (1794) (*Phalaena*); HUEBNER, Verz. Schmett. p. 356 (1826) (*Sitochroa*); TREITSCHKE, Schmett. Eur. vii, p. 116 (1829) (*Botys*); id., l. c. x (3), p. 25 (1834); HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 39 (1848); LEDERER, Wien. Ent. Mon. vii, p. 377 (1863); GUENÉE, Delt. et Pyr. p. 335 (1854) (*Spiodes*); WALKER, Cat. Lep. Het. B. M. xviii, p. 770 (1859); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 409 (1896) (*Phlyctaenodes*); id., Proc. Zool. Soc. Lond. p. 208 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 57 (1901); LEECH, Trans. Ent. Soc. Lond. p. 485 (1901); MATSUMURA, Cat. Ins. Jap. p. 215 (1905).

*Geometra flaveolata* ROTT, Naturf. xi, p. 20 (1777).

*Pyralis selenalis* HUEBNER, Smml. Eur. Schmett. Pyr. pl. 28, f. 177 (1790); DUPOCHEL, Hist. Nat. Lep. Fr. viii, p. 361, pl. 235, f. 4 (1834) (*Botys*).

*Botys* ? *anaxialis* WALKER, l. c. xviii, p. 653 (1859); SWINHOE & COTES, Cat. Moths of Ind. p. 593 (1889).

This species was first recorded from Japan by HAMPSON in 1896.

**Loc. Distr.:** Sapporo (MATSUMURA); Tokyo (FENTON); Komaba (HIRAYAMA); Yokohama (PRYER); Yoshino (WILEMAN); Ise (WILEMAN); Daisen (MATSUMURA); Kumamoto (KAWAMURA).

**Gen. Distr:** Europe; India; China; Korea; Japan; Saghalien.

**95. *Loxostege verticalis* LINN.**

*Pyralis verticalis* LINNAEI, Syst. Nat. ed. x, p. 533 (1758); id., l. c. ed. xii, p. 882 (1767); MEYRICK, Brit. Lep. p. 413 (1895) (*Loxostege*); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 409 (1896) (*Phlyctaenodes*); id., Proc. Zool. Soc. Lond. p. 203 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 57 (1901); LEECH, Trans. Ent. Soc. Lond. p. 485 (1901); MATSUMURA, Cat. Ins. Jap. p. 215 (1905); GUENÉE (part), Delt. et Pyr. p. 386 (1854).

*Pyralis limbatis* HUEBNER (nec SCHIFF. et DEN.), Smml. Eur. Schmett. p. 23, pl. 11, ff. 72, 73 (1796); SCHRANCK, Fann. Boica, ii (2), p. 64 (1802).

*Botys cinctalis* TREITSCHKE, Schmett. Eur. vii, p. 97 (1829); DUPONCHEL, Hist. Nat. Lep. Fr. viii, p. 124, pl. 217, ff. 5, 6 (1832); GUENÉE, l. c. p. 386 (1854) (*Spilodes*); WALKER, Cat. Lep. Het. B. M. xviii, p. 771 (1859).

*Botys lavalis* HERRICH-SCHAEFFER, Syst. Eur. Schmett. iv, p. 37 (1848); GUENÉE, l. c. p. 385 (1854) (*Spilodes*); WALKER, l. c. p. 770 (1859).

In 1896, HAMPSON recorded first this species from Japan.

**Loc. Distr.:** Sapporo (MATSUMURA); Hakodate (PRYER); Hokkaido (WILEMAN); Japan (PRYER).

**Gen. Distr.:** Europe; India; China; Korea; Japan.

**96. *Loxostege inornatalis* LEECH**

*Botys inornatalis* LEECH, Entom. xxii, p. 68, pl. iii, f. 13 (1889); HAMPSON, Proc. Zool. Soc. Lond. p. 209 (1899) (*Phlyctaenodes*); LEECH, Trans. Ent. Soc. Lond. p. 485 (1901); MATSUMURA, Cat. Ins. Jap. p. 215 (1905).

Described from Japan. The male type specimen came from Satsuma, and the female from Sakata. Both are now in the British Museum.

**Loc. Distr.:** Sakata (LEECH); Satsuma (LEECH).

**Gen. Distr.:** Japan.

**97. *Loxostege umbrosalis* WARR.**

*Aplographe umbrosalis* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 301 (1892); HAMPSON, Proc. Zool. Soc. Lond. p. 201 (1899) (*Phlyctaenodes*); LEECH, Trans. Ent. Soc. Lond. p. 486 (1901); MATSUMURA, Cat. Ins. Jap. p. 216 (1905).

This species was first recorded as occurring in Japan by LEECH in 1901.

**Loc. Distr.:** Yoshino (WILEMAN); Iyo (WILEMAN); Tosa (WILEMAN); Daisetsu (MATSUMURA); Nagasaki (LEECH); Satsuma (LEECH).

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

**98. *Loxostege sticticalis* LINN.**

*Phalaena (Pyralis) sticticalis* LINNAEI, Faun. Suec. p. 352 (1761); id., Syst. Nat. p. 883 (1767);

FARRICIUS, Ent. Syst. iii (2), p. 235 (1794); HUEBNER, Verz. Schmett. p. 353 (1826) (*Uresiphita*); TREITSCHKE, Schmett. Eur. vii, p. 64 (1829) (*Scopula*); DUPONCHEL, Hist. Nat. Lep. Fr. viii (2), p. 96 (1832); id., l. c. pl. 215, f. 5 (1832); STEPHENS, Ill. Brit. Ent. Haust. iv, p. 59 (1834) (*Margaritia*); HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 34 (1848) (*Botys*); LEDERER, Wien. Ent. Mon. vii, p. 376 (1863); GUENÉE, Delt. et Pyr. p. 381 (1854) (*Spilodes*); WALKER, Cat. Lep. Het. B. M. xviii, p. 767 (1859); SWINHOE, Trans. Ent. Soc. Lond. p. 354 (1885); SWINHOE & COTES, Cat. Moths of Ind. p. 608 (1889); MEYRICK, Brit. Lep. p. 418 (1895) (*Loxostege*); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 407 (1896) (*Phlyctaenodes*); id., Proc. Zool. Soc. Lond. p. 211 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 58 (1901); LEECH, Trans. Ent. Soc. Lond. p. 485 (1901); WILEMAN, Trans. Ent. Soc. Lond. p. 385 (1911).

*Phalaena lupulina* CLERCK (nec LINN.), Icon. pl. ix, f. 4 (1759).

*Pyralis fuscalis* HUEBNER, Smml. Eur. Schmett. Pyr. p. 29, pl. 7, f. 45 (1796).

*Pyralis tetragonalis* HAWORTH, Lep. Brit. p. 385 (1811).

Recorded by WILEMAN from Japan in 1911.

**Loc. Distr.:** Oshima (WILEMAN); Yokohama (WILEMAN).

**Gen. Distr.:** Europe; U. S. A.; India; Korea; Japan.

### Genus *Diasemia* HBN.

*Diasemia* HUEBNER, Verz. Schmett. p. 348 (1826) ..... type *litterata* SCOP.

*Choristostigma* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 440

(1892) ..... type *plumbosignalis* FERN.

### Synopsis of Species

- a. Postmedial line to the fore wing highly excurved between veins 5 and 2 ..... *D. litterata* SCOP.
- a' Postmedial line to the fore wing almost vertical from costa to dorsum. .... *D. accalis* WLK.

### 99. *Diasemia litterata* SCOP.

*Phalaena litterata* SCOPOLI, Ent. Carn. p. 229 (1763); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 410 (1896) (*Diasemia*); id., Proc. Zool. Soc. Lond. p. 213 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 58 (1901); LEECH, Trans. Ent. Soc. Lond. p. 487 (1901); MATSUMURA, Cat. Ins. Jap. p. 216 (1905).

*Pyralis literalis* SCHIFFERMÜLLER & DENIS, Syst. Schmett. Wien. p. 122 (1775); HUEBNER, Smml. Eur. Schmett. p. 13, pl. 13, f. 86 (1796); SCHRANCK, Faun. Boica, ii (2), p. 63 (1802) (*Nymphula*); DUPONCHEL, Hist. Nat. Lep. Fr. viii (2), p. 188, pl. 222, f. 7 (1832) (*Hydrocampa*); STEPHENS, Ill. Brit. Ent. Haust. iv, p. 37 (1834); GUENÉE, Delt. et Pyr. p. 233 (1854); WALKER, Cat. Lep. Het. B. M. xvii, p. 408 (1859); LEDERER, Wien. Ent. Mon. vii, p. 419 (1863); HUEBNER, Verz. Schmett. p. 348 (1826) (*Diasemia*); HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 26 (1848) (*Botys*); MOTSCHULSKY, Bul. Soc. Nat. Mosc. xxxix (1), p. 198 (1866).

*Phalaena argentalis* FABRICIUS, Spec. Ins. ii, p. 275 (1781); id., Ent. Syst. iii (2), p. 240 (1794).

This species was first recorded as occurring in Japan by MÖTSCHULSKY in 1866. This species seems to occur very commonly throughout Japan.

**Loc. Distr.:** Sapporo (MATSUMURA); Hakodate (?); Tokyo (FENTON, MATSUMURA); Yokohama (JONAS); Nagasaki (LEECH); Yoshino (WILEMAN); Kii (WILEMAN); Awa (WILEMAN); Hyuga (WILEMAN); Higo (WILEMAN); Satsuma (LEECH).

**Gen. Distr.:** Europe; China; Korea; Japan.

### 100. *Diasemia accalis* Wlk.

*Scopula ? accalis* WALKER, Cat. Lep. Het. B. M. xix, p. 1015 (1859); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 411 (1896) (*Diasemia*); id., Proc. Zool. Soc. Lond. p. 213 (1899); LEECH, Trans. Ent. Soc. Lond. p. 487 (1901); MATSUMURA, Cat. Ins. Jap. p. 216 (1905); STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 72 (1918); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 270 (1928).

This species was first recorded from Japan by LEECH in 1901.

**Loc. Distr.:** Hakodate (ANDREWS); Nikko (?); Nagahama (LEECH); Kobe (WILEMAN); Yokohama (?); Nagasaki (LEECH); Satsuma (LEECH).

**Gen. Distr.:** India; Singapore; China; Formosa; Japan.

### Genus *Antigastra* LED.

*Antigastra* LEDERER, Wien. Ent. Mon. vii, p. 419 (1863) ..... type *catalaunalis* DUP.

### 101. *Antigastra catalaunalis* DUP.

*Botys catalaunalis* DUPONCHEL, Hist. Nat. Lep. Fr. viii (2), p. 330, pl. 232, f. 8 (1833); Zeller, Isis, p. 577 (1847); HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 25, pl. 9, ff. 56, 57 (1848); GUENÉE, Delt. et Pyr. p. 361 (1854) (*Enulea*); WALKER, Cat. Lep. Het. B. M. xviii, p. 743 (1859); SWINHÖE, Proc. Zool. Soc. Lond. p. 525 (1884); id., l. c. p. 874 (1885); id., l. c. p. 460 (1886); SWINHÖE & COTES, Cat. Moths of Ind. p. 605 (1889); LEDERER, Wien. Ent. Mon. vii, p. 420 (1863) (*Antigastra*); WALKER, l. c. xxxiv, p. 1483 (1865); FELDER & ROGENHOFER, Reis. Novara, Lep. pl. 135, f. 12 (1874); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 412 (1896); id., Proc. Zool. Soc. Lond. p. 215 (1899); SWINHÖE, Cat. Het. Mus. Oxf. ii, p. 530 (1900); LEECH, Trans. Ent. Soc. Lond. p. 487 (1901); MATSUMURA, Cat. Ins. Jap. p. 216 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 271 (1928).

*Botys venosalis* WALKER, l. c. xxxiv, p. 1401 (1865).

Recorded by LEECH from Japan in 1901.

**Loc. Distr.:** Tsuruga (TAKAHASHI); Kagoshima (WILEMAN); Miyazaki (WILEMAN).

**Gen. Distr.:** Europe; India; China; Formosa; Japan.

Genus *Uresiphita* HBN.

*Uresiphita* HUEBNER, Verz. Schmett. p. 353 (1826) ..... type *limbalis* SCHIFF. et DEN.

102. *Uresiphita pruiipennis* BUTL.

*Mecyna pruiipennis* BUTLER, Ann. Mag. Nat. Hist. (5) iv, p. 454 (1879); HAMFSON, Proc. Zool. Soc. Lond. p. 224 (1899); LEECH, Trans. Ent. Soc. Lond. p. 488 (1901); MATSUMURA, Cat. Ins. Jap. p. 216 (1905).

Described from Japan, the type specimen of which was collected in Yokohama by PRYER, and is now preserved in the British Museum.

**Loc. Distr.:** Tobetsu (WILEMAN); Yokohama (PRYER); Yoshino (WILEMAN); Mt. Daisen (MATSUMURA).

**Gen. Distr.:** Korea; Japan.

Genus *Calamochrous* LED.

*Calamochrous* LEDERER, Wien. Ent. Mon. vii, p. 386 (1863) ..... type *chionalis* LED.  
*Sclerocona* MEYRICK, Trans. Ent. Soc. Lond. p. 445 (1890) ..... type *acutellus* EVM.  
*Notaspis* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 297 (1892) ... type *tranquilla* LED.  
*Dicepolia* SNELLEN, Tijd. v. Ent. xxxv, p. 158 (1892) ..... type *rosco-brunnea* WARR.

103. *Calamochrous acutellus* EVM.

*Chilo acutellus* EVERSMAAN, Bul. Soc. Nat. Mosc. xv, p. 563 (1842); id., Faun. Lep. Volg.-Ural. p. 540 (1844); GUENÉE, Delt. et Pyr. p. 238 (1854) (*Nascia*); WALKER, Cat. Lep. Het. B. M. xvii, p. 411 (1859); LEDERER, Wien. Ent. Mon. vii, p. 387 (1863) (*Calamochrous*); HAMPSON, Proc. Zool. Soc. Lond. p. 228 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 59 (1901); LEECH, Trans. Ent. Soc. Lond. p. 483 (1901); MATSUMURA, Cat. Ins. Jap. p. 216 (1905).

*Duponcheiia ciliatis* HERRICH-SCHAEFFER (nec HBN.), Syst. Schmett. Eur. iv, p. 8, pl. 9, f. 60 (1848).

*Crambus tincticostellus* WALKER, Cat. Lep. Het. B. M. xxvii, p. 167 (1863).

*Crambus sinensellus* WALKER, l. c. p. 167 (1863).

This species was first recorded as occurring in Japan by HAMPSON in 1899.

**Loc. Distr.:** Sapporo (MATSUMURA); Hakodate (ANDREWS); Junsainuma (WILEMAN); Yokohama (JONAS); Komaba (HIRAYAMA); Sakata (LEECH); Japan (?)\*

**Gen. Distr.:** Europe; Russia; China; Korea; Japan.

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\* One specimen labelled 'Japon' in the Nat. Mus. Paris.

Genus *Metasia* GN.

*Metasia* GUENÉE, Delt. et Pyr. p. 251 (1854)..... type *suppandalis* HBN.

104. *Metasia coniotalis* HMPSON.

*Metasia coniotalis* HAMPSON, Jour. Bomb. Nat. Hist. Soc. xv, p. 220 (1903); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 275, pl. ix, f. 16 (1928).

Recorded from Japan by HAMPSON in 1903.

**Loc. Distr.:** Nagasaki (LEECH).

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

Genus *Hemiscopsis* WARR.

*Hemiscopsis* WARREN, Ann. Mag. Nat. Hist. (6) iv, p. 475 (1890) .... type *suffusalis* WLK.

105. *Hemiscopsis cinerea* WARR.

*Hemiscopsis cinerea* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 396 (1892); HAMPSON, Proc. Zool. Soc. Lond. p. 223 (1899); LEECH, Trans. Ent. Soc. Lond. p. 488 (1901); MATSUMURA, Cat. Ins. Jap. p. 216 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 273, pl. ix, f. 23 (1928).

Described from Japan, the type specimen of which was taken in Hokkaido.

**Loc. Distr.:** Sapporo (MATSUMURA); Hokkaido (PRVER coll.); Nikko (ITO); Yokohama (JONAS); Yoshino (WILEMAN); Kobe (WILEMAN); Settsu (WILEMAN); Tsuruga (LEECH); Iyo (ARAKAWA); Satsuma (LEECH).

**Gen. Distr.:** Formosa; Japan.

Genus *Udea* DUP.

*Udea* DUPONCHEL, Cat. Lep. Eur. p. 209 (1845)..... type *ferrugalis* HBN.

*Ilapalia* HUEBNER, Verz. Schmett. p. 355 (1826) praeocc. .... type *fulvalis* HBN.

*Stantira* WALKER, Cat. Lep. Het. B. M. xxvii, p. 76 (1863)..... type *itysalis* WLK.

*Nomis* MOTSCHULSKY, Etud. Ent. p. 33 (1860)..... type *albopedalis* MOTSCH.

*Cindophia* LEDERER, Wien. Ent. Mon. vii, p. 433 (1863)..... type *bicoloralis* GN.

*Osiriaca* WALKER, l. c. xxxiv, p. 1493 (1865)..... type *ptousalis* WLK.

*Perispasta* ZELLER, Verh. Zool.-Bot. Ver. Wien, xxv, p. 333 (1876)... type *caeculalis* ZELL.

*Pseudebulea* BUTLER, Trans. Ent. Soc. Lond. p. 587 (1881)..... type *fentoni* BUTL.

*Melanomecyna* BUTLER, Ent. Mon. Mag. xix, p. 179 (1883)..... type *despecta* BUTL.

*Microstega* MEYRICK, Trans. Ent. Soc. Lond. p. 450 (1890)..... type *pandalis* HBN.

*Sericoplaga* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 295 (1892) ... type *externalis* WARR.

*Aglaofs* WARREN, l. c. p. 298 (1892)..... type *furnacalis* MEYR.

- Prodasynemis* WARREN, l. c. p. 301 (1892) ..... type *inornata* BUTL.  
*Minudea* WARREN, l. c. p. 440 (1892) ..... type *olivialis* WARR.  
*Lepidoplaga* WARREN, l. c. (6) xvi, p. 475 (1895) ..... type *flavivinctalis* SNELL.

### Synopsis of Species

- A. Wings pale yellowish ..... (a-a')
- A.' Wings yellow ochre or ochreous yellow ..... (f-f')
- A." Fore wing ochreous tinged with brown; with dusky ante- and post-medial lines as well as spots in and at end of cell; hind wing paler, with a trace of dusky postmedial line .... *U. pseudocrocealis* SOUTH
- A.iii Fore wing rosy; hind wing grey ..... *U. minnehaha* PRYER
- A.iiii Fore wing greyish brown ..... (i-i')
- a. Each wing with the terminal area not rosy ..... (b-b')
- a.' Each wing with the terminal area rosy ..... *U. aurorina* BUTL.
- b. Postmedial line to the fore wing sinuated ..... (c-c')
- b.' Postmedial line to the fore wing not sinuated ..... (d-d')
- c. Hind wing with a dark subterminal line ..... *U. pandalis* HBN.
- c.' Hind wing with no dark subterminal line .... *U. albopedalis* MOTSCH.
- d. Basal half and the outside of the postmedial line of the fore wing suffused with dark fuscous ..... *U. fentoni* BUTL.
- d.' Basal half and the outside of the postmedial line of the fore wing not suffused with dark fuscous ..... (e-e')
- e. Postmedial line to the fore wing straightly oblique inwardly from vein 6 towards the middle of dorsum; hind wing paler, with a trace of dark line near termen ..... *U. forficalis* LINN.
- e.' Postmedial line to the fore wing slightly excurved between veins 6 and 2; postmedial line to the hind wing highly excurved between veins 5 and 2; wings wholly suffused with fuscous except the excurved portion and the outside of the postmedial line .....  
 ..... *U. stachydalis* GERM.
- f. Wings yellow-ochre; hind wing paler and slightly suffused with fuscous except termen and cilia; having no markings .....  
 ..... *U. inornata* BUTL.
- f.' Wings ochreous yellow ..... (g-g')
- g. Wings not suffused with fuscous; with a black terminal line; ante- and postmedial lines, spots in and at end of cell of the fore wing and postmedial line to the hind wing dark .... *U. auratalis* WARR.
- g.' Wings suffused with fuscous on the costal and terminal areas as well as in the disc; wings with fuscous markings ..... (h-h')

- h. Hind wing with a postmedial line excurved between costa and vein 2; formation of the angular curve of the postmedial line quite different from that of *U. verbascalis* SCHIFF. et DEN. ... *U. rubriginalis* HBN.
- h.' Hind wing with a postmedial line excurved between below veins 6 and 2 ..... *U. verbascalis* SCHIFF. et DEN.
- i. Fore wing with no orbicular or 8-shaped dot ..... (j-j')
- i.' Fore wing with orbicular or 8-shaped dot ..... (k-k')
- j. Wings tinged with ochreous; antemedial line to the fore wing highly excurved; postmedial line also highly excurved between vein 2 and dorsum ..... *U. albifimbrialis* WLK.
- j.' Fore wing with an antemedial line slightly excurved; postmedial line also very slightly excurved between vein 2 and dorsum .....  
..... *U. thyalis* WLK.
- k. Fore wing with some dark dots on the outer costal half ..... (l-l')
- k.' Fore wing with no dark dots on the outer costal half ..... (n-n')
- l. Postmedial line to the fore wing very slightly angled inwardly below the lower angle of cell ..... *U. tritalis* CHRIST.
- l.' Postmedial line to the fore wing very strongly and doubly angled inwardly below the lower angle of cell ..... (m-m')
- m. Postmedial line to the fore wing excurved between costa and about vein 3 ..... *U. stigmatalis* WLMN.
- m.' Postmedial line to the fore wing almost vertical from costa to vein 3 then retracted to the lower angle of cell then excurved again ...  
..... *U. prunalis* SCHIFF. et DEN.
- n. Hind wing with no trace of line ..... *U. orbicentralis* CHRIST.
- n.' Hind wing with a trace of dark line ..... (o-o')
- o. Hind wing same coloured with the fore wing ... *U. lugubralis* LEECH
- o.' Hind wing much paler than the fore wing; fore wing slightly tinged with brown ..... *U. ferrugalis* HBN.

### 106. *Udea albopedalis* MOTSCH.

*Nomis albopedalis* MOTSCHULSKY, Etud. Ent. p. 38 (1860); id., Bul. Soc. Nat. Mosc. xxxix (1), p. 198 (1866); HAMPSON, Proc. Zool. Soc. Lond. p. 242 (1899) (*Pionea*); LEECH, Trans. Ent. Soc. Lond. p. 490 (1901); MATSUMURA, Cat. Ins. Jap. p. 216 (1905).

This species was described from Japan.

**Loc. Distr.:** Sapporo (MATSUMURA); Tobetsu (WILEMAN); Junsainuma (WILEMAN); Nikko (WILEMAN); Tokyo (FENTON, WILEMAN); Yokohama (?); Higo (WILEMAN); Japan (JONAS).

**Gen. Distr.:** China; Japan.



107. *Udea pandalis* HBN.

*Epicorsia pandalis* HUEBNER, Verz. Schmett. p. 355 (1826); TREITSCHKE, Schmett. Eur. vii, p. 103 (1829) (*Botys*); DUPONCHEL, Hist. Nat. Lep. Fr. Suppl. iv, p. 393, pl. 82, f. 2 (1843); HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 29, pl. 13, f. 88 (1848); GUENÉE, Delt. et Pyr. p. 334 (1854); WALKER, Cat. Lep. Het. B. M. xviii, p. 554 (1859); MEYRICK, Trans. Ent. Soc. Lond. p. 451 (1890) (*Microstega*); id., Brit. Lep. p. 417 (1895); HAMPSON, Proc. Zool. Soc. Lond. p. 242 (1899) (*Pionea*); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 61 (1901); LEECH, Trans. Ent. Soc. Lond. p. 491 (1901); MATSUMURA, Cat. Ins. Jap. p. 216 (1905).

*Pyralis verbascalis* HUEBNER (nec SCHIFF. et DEN.), Smml. Eur. Schmett. p. 23, pl. 9, f. 59 (1796).

*Pyralis angustalis* HAWORTH, Lep. Brit. p. 379 (1811).

*Pyralis terminalis* HAWORTH, l. c. p. 379 (1811).

*Botys jessica* BUTLER, Ill. Typ. Sp. Het. B. M. ii, p. 58, pl. 39, f. 6 (1878).

*Botys protensa* BUTLER, l. c. p. 58, pl. 39, f. 7 (1878).

*B. jessica* BUTL. and *B. protensa* BUTL. were described from Japan, the both types of which are now in the British Museum.

**Loc. Distr.:** Sapporo (MATSUMURA); Hakodate (?); Yokohama (JONAS); Ishikawa (WILEMAN); Shimonoseki (LEECH); Nagasaki (LEECH).

**Gen. Distr.:** Europe; China; Korea; Japan.

108. *Udea inornata* BUTL.

*Botys inornata* BUTLER, Ill. Typ. Sp. Het. B. M. iii, p. 76, pl. 59, f. 11 (1879); HAMPSON, Proc. Zool. Soc. Lond. p. 242 (1899) (*Pionea*); LEECH, Trans. Ent. Soc. Lond. p. 491 (1901); MATSUMURA, Cat. Ins. Jap. p. 217 (1905); WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 301 (1892) (*Prodasychnemis*).

Also described from Japan. The type specimen was collected in Yokohama by JONAS.

**Loc. Distr.:** Sapporo (MATSUMURA); Tobetsu (WILEMAN); Tokyo (?); Yokohama (JONAS); Kyoto (?); Yoshino (WILEMAN); Misaki (MATSUMURA); Settsu (WILEMAN); Nagoya (?); Iyo (ARAKAWA); Shimonoseki (LEECH); Tsuruga (LEECH); Nikko (?); Hyuga (WILEMAN).

**Gen. Distr.:** Korea; Japan.

109. *Udea ferrugalis* HBN.

*Pyralis ferrugalis* HUEBNER, Smml. Eur. Schmett. Pyr. pp. 11, 27, p<sup>1</sup>. 9, f. 54, pl. 23, f. 150 (1796); HAWORTH, Lep. Brit. p. 382 (1811); TREITSCHKE, Schmett. Eur. vii, p. 94 (1829) (*Botys*); DUPONCHEL, Hist. Nat. Lep. Fr. viii, (2), p. 138, pl. 218, f. 7; HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 39 (1848); GUENÉE, Delt. et Pyr. p. 398 (1854) (*Scopula*); WALKER, Cat. Lep. Het. B. M. xviii, p. 782 (1859); BUTLER, Ann. Mag. Nat. Hist. (5) ix, p. 211 (1882); SWINHOE, Trans. Ent. Soc. Lond. p. 211 (1885); SWINHOE & COTES, Cat. Moths of Ind. p. 608 (1889); MEYRICK, Brit. Lep. p. 402 (1895); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 422 (1896) (*Pionea*);

id., Proc. Zool. Soc. Lond. p. 243 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 62 (1901); LEECH, Trans. Ent. Soc. Lond. p. 49: (1901); MATSUMURA, Cat. Ins. Jap. p. 217 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 277 (1928) (*Udea*).

*Scopula martialis* GUENÉE, Delt. et Pyr. p. 398 (1854); WALKER, l. c. xviii, p. 787 (1859).

*Scopula hypatialis* WALKER, l. c. xix, p. 1014 (1859).

*Scopula testacea* BUTLER, Ill. Typ. Sp. Het. B. M. iii, p. 77, pl. 59, f. 15 (1879).

*S. testacea* BUTL. was described from Japan.

**Loc. Distr.:** Yokohama (JONAS, WILEMAN); Yoshino (WILEMAN); Awa (WILEMAN); Satsuma (LEECH, WILEMAN); Hyuga (WILEMAN).

**Gen. Distr.:** Europe; Asia; Africa; India; Ceylon; Burma; Formosa; Japan.

### 110. *Udea stigmatalis* WLMN.

*Pionea stigmatalis* WILEMAN, Trans. Ent. Soc. Lond. p. 387 (1911); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 278 (1928) (*Udea*).

Described from Japan, the type specimen\* of which was collected in Yoshino and is now in WILEMAN's private collection (London).

**Loc. Distr.:** Hakodate (ANDREWS); Sapporo (MATSUMURA); Yoshino (WILEMAN); Oiwake (LEECH).

**Gen. Distr.:** Formosa; Japan.

### 111. *Udea prunalis* SCHIFF. et DEN.

*Pyralis prunalis* SCHIFFERMÜLLER et DENIS, Syst. Schmett. Wien. p. 121 (1775); HUEBNER, Verz. Schmett. p. 353 (1826) (*Uresphita*); TREITSCHKE, Schmett. Eur. vii, p. 55 (1829) (*Scopula*); DUPONCHER, Hist. Nat. Lep. Fr. viii (2), p. 91, pl. 215, f. 3; GUENÉE, Delt. et Pyr. p. 394 (1854); WALKER, Cat. Lep. Het. B. M. xviii, p. 780 (1859); STEPHENS, Ill. Brit. Ent. Haust. iv, p. 60 (1834) (*Margaritia*); HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 40 (1848) (*Botys*); LEDERER, Wien. Ent. Mon. vii, p. 374 (1863); HAMPSON, Proc. Zool. Soc. Lond. p. 243 (1899) (*Pionea*); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 62 (1901); WILEMAN, Tans. Ent. Soc. Lond. p. 389 (1911).

*Pyralis leucophaealis* HUEBNER, Smml. Eur. Schmett. Pyr. p. 27, pl. 12, f. 77 (1796).

*Pyralis nebulalis* HAWORTH (nec HBN.), Lep. Brit. p. 386 (1811).

Though WILEMAN recorded this species from Japan in 1911 as saying "One specimen in the National Collection labelled Japan?, 81, ex ZELLER Collection. Hitherto unrecorded from Japan." I have hitherto not been able to obtain any specimens of this species in our country, and I wonder if the above specimen in the British Museum really came from Japan.

**Loc. Distr.:** ?

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\*The type specimen is a female, not male as stated by WILEMAN.

Gen. Distr.: Europe; ? Japan.

### 112. *Udea stachydalis* (Zk. i. l.) GERM.

*Pyralis stachydalis* (Zk. i. l.) GERMANN, Faun. Ins. Eur. iv, pl. 18 (? 1822); MEIZNER, Stett. Ent. Zeit. p. 242 (1846) (*Botys*); HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 30 (1848); id., pl. 16, f. 114 (1849); LEDERER, Wien. Ent. Mon. vii, p. 373 (1863); GUENÉE, Delt. et Pyr. p. 363 (1854) (*Ebulea*); WALKER, Cat. Lep. Het. B. M. xviii, p. 745 (1859); LEECH, Brit. Pyr. p. 39, pl. 5, f. 3 (1884); SOUTH, Entom. xxii, p. 275, pl. iv, f. 10 (1890); MEYRICK, Brit. Lep. p. 416 (1895) (*Pyrausta*); HAMPSON, Proc. Zool. Soc. Lond. p. 245 (1899) (*Pionea*); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 63 (1901).

This species has hitherto not been recorded as occurring in Japan. There are three male specimens in the collection of the Entomological Museum, Sapporo, taken by Prof. S. MATSUMURA on June 26, June 11 and August 15, 1918 in Sapporo.

Loc. Distr.: Sapporo (MATSUMURA).

Gen. Distr.: Europe; Japan.

### 113. *Udea verbascalis* SCHIFF. et DEN.

*Pyralis verbascalis* SCHIFFERMÜLLER & DENIS, Syst. Schmett. Wien. p. 121 (1775); HUEBNER, Verz. Schmett. p. 357 (1826) (*Ecpyrrhorhoe*); TREITSCHKE, Schmett. Eur. vii, p. 88 (1829) (*Botys*); DUPONCHEL, Hist. Nat. Lep. Fr. viii (2), p. 128, pl. 8, f. 1; HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 30 (1848); LEDERER, Wien. Ent. Mon. vii, p. 373 (1863); STEPHENS, Ill. Brit. Ent. Haust. iv, p. 54 (1834) (*Margaritia*); GUENÉE, Delt. et Pyr. p. 363 (1854) (*Ebulea*); WALKER, Cat. Lep. Het. B. M. xviii, p. 744 (1859); MEYRICK, Brit. Lep. p. 416 (1895) (*Pyrausta*); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 423 (1896) (*Pionea*); id., Proc. Zool. Soc. Lond. p. 245 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 63 (1901); LEECH, Trans. Ent. Soc. Lond. p. 493 (1901); MATSUMURA, Cat. Ins. Jap. p. 217 (1905).

*Phalaena verbascata* FABRICIUS, Ent. Syst. iii (2), p. 212 (1794).

*Pyralis arcualis* HUEBNER, Smml. Eur. Schmett. Pyr. p. 21, pl. 12, f. 80 (1796).

*Botys esentalis* CHRISTOPH, Bul. Soc. Nat. Mosc. p. 19 (1881).

*Botys p'umbocüialis* SNELLEN, Trans. Ent. Soc. Lond. p. 576 (1890).

This species was first recorded from Japan by MEYRICK in 1895.

Loc. Distr.: Tokyo (?); Chichibu (HIRAYAMA); Kyoto (SUZUKI); Musashi (ISSHIKI); Yokohama (?); Yoshino (WILEMAN); Tsuruga (TAKAHASHI); Iyo (WILEMAN, ARAKAWA); Nagasaki (LEECH); Higo (WILEMAN).

Gen. Distr.: Europe; W. Asia; India; Ceylon; China; Korea; Japan.

### 114. *Udea albifimbriatis* WLK.

*Botys albifimbriatis* WALKER, Cat. Lep. Het. B. M. xxxiv, p. 1446 (1865); HAMPSON, Proc. Zool. Soc. Lond. p. 246 (1899) (*Pionea*); LEECH, Trans. Ent. Soc. Lond. p. 494 (1901); HAMPSON, Jour. Bomb. Nat. Hist. Soc. xv, p. 221 (1903); MATSUMURA, Cat. Ins. Jap. p. 217 (1905);

SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 273 (1928) (*Udea*).

Recorded first from Japan by LEECH in 1901.

**Loc. Distr.:** Satsuma (LEECH, WILEMAN); Osumi (WILEMAN).

**Gen. Distr.:** Java; China; Formosa; Japan.

### 115. *Udea minnehaha* PRYER

*Pyrausta minnehaha* PRYER, Cist. Ent. ii, p. 234, pl. iv, f. 9 (1877); id., Trans. Asiat. Soc. Jap. xiii (1), p. 66 (1885); HAMPSON, Proc. Zool. Soc. Lond. p. 246 (1899) (*Pionea*); LEECH, Trans. Ent. Soc. Lond. p. 495 (1901); MATSUMURA, Cat. Ins. Jap. p. 217 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 278, pl. ix, f. 24 (1928) (*Udea*).

*Pionea schenklingi* STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 79 (1918).

In 1877, PRYER also gave Japan as a locality of this species.

**Loc. Distr.:** Tokyo (WILEMAN); Chichibu (HIRAYAMA); Komaba (MATSUMURA); Nikko (MATSUMURA); Yokohama (PRYER, WILEMAN); Junsainuma (WILEMAN); Kii (WILEMAN); Yamato (WILEMAN); Yoshino (WILEMAN); Nagasaki (LEECH); Satsuma (LEECH); Sagami (OGAWA).

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

### 116. *Udea lugubralis* LEECH

*Botys lugubralis* LEECH, Entom. xxii, p. 67, pl. iii, f. 6 (1889); HAMPSON, Proc. Zool. Soc. Lond. p. 246 (1899) (*Pionea*); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 259 (1901); LEECH, Trans. Ent. Soc. Lond. p. 495 (1901); MATSUMURA, Cat. Ins. Jap. p. 217 (1905).

Described from Japan, and the type specimen of this species is now in the collection of the British Museum.

**Loc. Distr.:** Nemuro (LEECH); Sapporo (MATSUMURA); Hakodate (LEECH).

**Gen. Distr.:** China; Korea; Japan; S. Saghalien; Kurile Is.

### 117. *Udea tritalis* CHRIST.

*Botys tritalis* CHRISTOPH, Bul. Soc. Nat. Mosc. lvi, p. 20 (1881); HAMPSON, Proc. Zool. Soc. Lond. p. 250 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 62 (1901); LEECH, Trans. Ent. Soc. Lond. p. 497 (1901); WILEMAN, Trans. Ent. Soc. Lond. p. 388 (1911).

This species was first recorded from Japan by WILEMAN in 1911.

**Loc. Distr.:** Oshima (WILEMAN).

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

### 118. *Udea orbicentralis* CHRIST.

*Botys orbicentralis* CHRISTOPH, Bul. Soc. Nat. Mosc. lvi, p. 22 (1881); HAMPSON, Proc. Zool.

Soc. Lond. p. 246 (1899) (*Pionea*); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 63 (1901); MATSUMURA, Cat. Ins. Jap. p. 218 (1905).

Recorded by HAMPSON in 1899 from Japan.

**Loc. Distr.:** Sapporo (MATSUMURA); Tobetsu (WILEMAN); Hakodate (WILEMAN, LEECH).

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

### 119. *Udea aurorina* BUTL.

*Ebulea aurorina* BUTLER, Ill. Typ. Sp. Het. B. M. ii, p. 58, pl. 39, f. 9 (1878); HAMPSON, Proc. Zool. Soc. Lond. p. 246 (1899) (*Pionea*); LEECH, Trans. Ent. Soc. Lond. p. 495 (1901); MATSUMURA, Cat. Ins. Jap. p. 218 (1905).

This species was described from Japan, the type specimen of which was taken in Yokohama by JONAS.

**Loc. Distr.:** Tokyo (FENTON); Yokohama (JONAS); Fushiki (LEECH); Tsuruga (TAKAHASHI); Yanagawa (TAKAMUKU).

**Gen. Distr.:** China; Japan.

### 120. *Udea fentoni* BUTL.

*Pseudeulea fentoni* BUTLER, Trans. Ent. Soc. Lond. p. 587 (1881); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 496 (1896) (*Pionea*); id., Proc. Zool. Soc. Lond. p. 246 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 259 (1901); LEECH, Trans. Ent. Soc. Lond. p. 496 (1901); MATSUMURA, Cat. Ins. Jap. p. 218 (1905); SHIBUYA, Ins. Mats. II, 2, p. 101 (1927) (*Udea*).

This species was also described from Japan. The type specimen came from Tokyo, and is now in the British Museum.

**Loc. Distr.:** Sapporo (MATSUMURA); Tobetsu (WILEMAN); Hakodate (LEECH); Oshima (WILEMAN); Tokyo (FENTON); Chichibu (HIRAYAMA); Yamato (WILEMAN); Kyoto (SUZUKI); Tsuruga (LEECH).

**Gen. Distr.:** India; China; Korea; Japan.

### 121. *Udea auratalis* WARR.

*Leucocraspeda auratalis* WARREN, Ann. Mag. Nat. Hist. (6) xvi, p. 472 (1895); HAMPSON, Proc. Zool. Soc. Lond. p. 247 (1899) (*Pionea*); LEECH, Trans. Ent. Soc. Lond. p. 496 (1901); MATSUMURA, Cat. Ins. Jap. p. 218 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 279 (1928) (*Udea*).

Described from Japan.

**Loc. Distr.:** Hakodate (LEECH); Fushiki (LEECH); Tokyo (ISSHIKI); Komaba (HIRAYAMA); Kyoto (SUZUKI); Tsuruga (TAKAHASHI).

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

**122. *Udea pseudocrocealis* SOUTH**

*Pionea pseudocrocealis* SOUTH, Trans. Ent. Soc. Lond. p. 492, pl. 15, f. 14 (1901); MATSUMURA, Cat. Ins. Jap. p. 217 (1905).

The type specimen\* of this species came from Fushiki.

**Loc. Distr.:** Fushiki (LEECH).

**Gen. Distr.:** Japan.

**123. *Udea forficalis* LINN.**

*Phaiana forficalis* LINNAEI, Syst. Nat. ed. x, p. 533 (1758); id., Faun. Suec. p. 351 (1761); FABRICIUS, Ent. Syst. iii (2), p. 223 (1794); HUEBNER, Smml. Eur. Schmett. Pyr. p. 28, pl. 9, f. 53 (1796) (*Pyralis*); TREITSCHKE, Schmett. Eur. vii, p. 122 (1829) (*Botys*); DUPONCHEL, Hist. Nat. Lep. Fr. viii (2), p. 147, pl. 219, f. 6; HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 36 (1848); FABRICIUS, Ent. Syst. Suppl. p. 467 (1798) (*Crambus*); HUEBNER, Verz. Schmett. p. 354 (1826) (*Mesof. graphé*); STEPHENS, Ill. Brit. Ent. Haust. iv, p. 45 (1834); MEYRICK, Brit. Lep. p. 425 (1895); GUENÉE, Delt. et Pyr. p. 369 (1854) (*Pionea*); WALKER, Cat. Lep. Het. B. M. xviii, p. 753 (1859); LEDERER, Wien. Ent. Mon. vii, p. 382 (1863); SWINHOE & COTES, Cat. Moths of Ind. p. 611 (1889); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 425 (1896); id., Proc. Zool. Soc. Lond. p. 247 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 63 (1901); LEECH, Trans. Ent. Soc. Lond. p. 496 (1901); MATSUMURA, Cat. Ins. Jap. p. 218 (1905).

*Pionea sodalis* BUTLER, Ill. Typ. Sp. Het. B. M. ii, p. 59, pl. 39, f. 4 (1878).

*Pionea sodalis* BUTL. was described from Japan.

**Loc. Distr.:** Sapporo (MATSUMURA); Jozankei (MATSUMURA); Tokyo (WILEMAN); Yokohama (JONAS); Yoshino (WILEMAN); Nagasaki (LEECH); Satsuma (LEECH).

**Gen. Distr.:** Europe; N. W. Himalaya; India; Japan.

**124. *Udea rubriginalis* HBN.**

*Pyralis rubriginalis* HUEBNER, Smml. Eur. Schmett. Pyr. p. 22, pl. 12, f. 79 (1796); id., Verz. Schmett. p. 356 (1826) (*Ecpyrrhoe*); TREITSCHKE, Schmett. Eur. vii, p. 87 (1829) (*Botys*); DUPONCHEL, Hist. Nat. Lep. Fr. viii (2), p. 130, pl. 218, f. 2; HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 30 (1848); MOTSCHULSKY, Bul. Soc. Nat. Mosc. xxxix (1), p. 198 (1866); LEDERER, Wien. Ent. Mon. vii, p. 373 (1863); GUENÉE, Delt. et Pyr. p. 363 (1854) (*Elbulea*); WALKER, Cat. Lep. Het. B. M. xviii, p. 744 (1859); HAMPSON, Proc. Zool. Soc. Lond. p. 248 (1899) (*Pionea*); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 63 (1901); LEECH, Trans. Ent. Soc. Lond. p. 496 (1901); MATSUMURA, Cat. Ins. Jap. p. 218 (1905).

This species was first recorded as occurring in Japan by MOTSCHULSKY in 1866.

**Loc. Distr.:** Sapporo (MATSUMURA); Jozankei (SHIBUYA); Tobetsu (WILEMAN); Hakodate (WILEMAN); Oshima (WILEMAN).

\* The type specimen is a male, not female as stated by SOUTH.

**Gen. Distr.:** Europe ; Japan.

### 125. *Udea thyalis* Wlk.

*Botys thyalis* WALKER, Cat. Lep. Het. B. M. xviii, p. 667 (1859); HAMPSON, Proc. Zool. Soc. Lond. p. 250 (1899) (*Pionea*); LEECH, Trans. Ent. Soc. Lond. p. 497 (1901); WILEMAN, Trans. Ent. Soc. Lond. p. 388 (1911).

Recorded first from Japan by WILEMAN in 1911.

**Loc. Distr.:** Satsuma (WILEMAN).

**Gen. Distr.:** China ; Japan.

### Genus *Paratalanta* MEYR.

*Paratalanta* MEYRICK, Trans. Ent. Soc. Lond. p. 440 (1890) ..... type *ussurialis* BREM.

### 126. *Paratalanta ussurialis* BREM.

*Botyodes ussurialis* BREMER, Lep. Ost-Sib. p. 68, pl. 6, f. 6 (1864); MOTSCHULSKY, Bul. Soc. Nat. Mosc. xxxix (1), p. 198 (1866) (*Nomis*); MEYRICK, Trans. Ent. Soc. Lond. p. 441 (1890) (*Paratalanta*); HAMPSON, Proc. Zool. Soc. Lond. p. 251 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 64 (1901); LEECH, Trans. Ent. Soc. Lond. p. 497 (1901); MATSUMURA, Cat. Ins. Jap. p. 218 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 280 (1928).

*Botys cultralis* STAUDINGER, Stett. Ent. Zeit. p. 108 (1867).

*Botys labtonalis* LEDERER, Hor. Soc. Ent. Ross. viii, p. 22, pl. 2, f. 9 (1871).

This species was first recorded as occurring in Japan by MOTSCHULSKY in 1866. Seems to occur very commonly in the northern Japan.

**Loc. Distr.:** Sapporo (MATSUMURA); Hakodate (LEECH); Iwate (?); Nikko (OKAMOTO); Tokyo (?); Komaba (HIRAYAMA); Yokohama (?); Kii (WILEMAN); Yamato (WILEMAN); Yoshino (WILEMAN); Mt. Daisen (MATSUMURA); Nagasaki (WILEMAN).

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

### Genus *Prionopaltis* WARR.

*Prionopaltis* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 437 (1892) ..... type *sericea* WARR.

### 127. *Prionopaltis consocia* WARR.

*Prionopaltis consocia* WARREN, Ann. Mag. Nat. Hist. (6) ix, 438 (1892).

Described from Japan. I have hitherto not been able to obtain any specimens of this species in this country.

**Loc. Distr.:** ?

**Gen. Distr.:** Japan.

Genus *Parudea* SWINH.

*Parudea* SWINHOE, Cat. Het. Mus. Oxf. ii, p. 523 (1900) ..... type *fimbriata* SWINH.

128. *Parudea fimbriata* SWINH.

*Parudea fimbriata* SWINHOE, Cat. Het. Mus. Oxf. ii, p. 523, pl. 8, f. 34 (1900); MARUMO, Jour. Col. Agr. Tokyo Imp. Univ. viii (11), p. 196 (1923) (*Pyrausta*).

Recorded from Japan by MARUMO in 1923.

**Loc. Distr.:** Yakushima (MARUMO).

**Gen. Distr.:** China; Japan.

Genus *Pyrausta* SCHRK.

- Pyrausta* SCHRANCK, Faun. Boica, II (2), p. 163 (1802) ..... type *cingulata* LINN.  
*Haematia* HUEBNER, Verz. Schmett. p. 349 (1826) ..... type *phaenicatis* HBN.  
*Syllythria* HUEBNER, l. c. p. 349 (1826) ..... type *sanguinalis* LINN.  
*Epicoxia* HUEBNER, l. c. p. 355 (1826) ..... type *nyctemeralis* HBN.  
*Ostrinia* HUEBNER, l. c. p. 360 (1826) ..... type *pa.ustralis* HBN.  
*Anania* HUEBNER, l. c. p. 360 (1826) ..... type *funeralis* HBN.  
*Herecyna* TREITSCHKE, Schm. Eur. vii, p. 179 (1829) ..... type *manualis* HBN.  
*Boreophila* DUPONCHEL, Cat. Meth. p. 195 (1831) ..... type *manualis* HBN.  
*Nascia* GURTIS, Brit. Ent. vi, p. 559 (1835) ..... type *ci.ialis* HBN.  
*Herbula* GUENÉE, Delt. et Pyr. p. 175 (1854) ..... type *cespitalis* S. et D.  
*Synchromia* GUENÉE, l. c. p. 188 (1854) ..... type *cardinalis* GN.  
*Ebulea* GUENÉE, l. c. p. 357 (1854) ..... type *fumalis* GN.  
*Sebuntia* WALKER, Cat. Lep. Het. B. M. xxvii, p. 77 (1863) ..... type *illibalis* HBN.  
*Ennychia* LEDERER, Wien. Ent. Mon. vii, p. 355 (1863) ..... type *albofascialis* TR.  
*Algedonia* LEDERER, l. c. p. 363 (1863) ..... type *luctua.üs* HBN.  
*Gyptitia* SNELLEN, Tijd. v. Ent. xxvi, p. 138 (1883) ..... type *ochracealis* WLK.  
*Opsibotys* WARREN, Ann. Mag. Nat. Hist. (6) vi, p. 474 (1890) ..... type *fuscalis* S. et D.  
*Sciocrista* WARREN, l. c. p. 475 (1890) ..... type *signatalis* WLK.  
*Micractis* WARREN, l. c. (6) ix, p. 294 (1892) ..... type *nubilalis* HBN.  
*Glauconoi* WARREN, l. c. p. 296 (1892) ..... type *deductalis* WLK.  
*Diacme* WARREN, l. c. p. 389 (1892) ..... type *phylisalis* WLK.  
*Niphograpta* WARREN, l. c. p. 390 (1892) ..... type *albigruttalis* WARR.  
*Cosmocreon* WARREN, l. c. p. 433 (1892) ..... type *albiceratis* GROTE  
*Ebuleodes* WARREN, l. c. (6) xviii, p. 112 (1896) ..... type *simplex* WARR.  
*Placosaris* MEYRICK, Trans. Ent. Soc. Lond. p. 89 (1897) ..... type *leucula* MEYR.

Synopsis of Species

- A. Wings ferruginous or ochreous brown ..... (a-a')
- A' Wings fuscous or fuscous brown ..... (c-c')
- A'' Wings ochreous ..... (h-h')



- A.<sup>'''</sup> Wings yellowish ..... (j-j')
- A.<sup>''''</sup> Wings purplish-crimson; basal area of the fore wing ochreous ..... (s-s')
- A.<sup>''''''</sup> Wings blackish ..... (t-t'-t')
- a. Wings with no lines ..... *P. accolalis* ZELL.
- a.' Wings with lines ..... (b-b')
- b. Fore wing with the postmedial line straightly oblique inwardly ..... *P. ciliaris* HBN.
- b.' Wings with each the postmedial line highly excurved between veins 5 and 2 ..... *P. costalis* WLK.
- c. Expanse of wings more than 30 mm. .... (d-d')
- c.' Expanse of wings less than 30 mm. .... (f-f')
- d. Hind wing with a broad pale yellowish band at middle ..... *P. nubialis* HBN.
- d.' Hind wing with a very narrow and serrated yellowish postmedial line ..... (e-e')
- e. Fore wing with the cilia whitish at the outer half ..... *P. discrimaculalis* HMPSX.
- e.' Fore wing with the cilia fuscous brown ..... *P. ocellaris* WARR.
- f. Termen and cilia of each wing orange yellow; an orange yellow patch at middle of costa of fore wing, with a white discocellular spot ..... *P. hyalodiscalis* WARR.
- f.' Termen and cilia of each wing not orange yellow ..... (g-g')
- g. Each wing with a pale yellowish space at the excurved portion of the postmedial line ..... *P. sambucalis* SCHIFF. et DEN.
- g.' Each wing with no pale yellow space at the excurved portion of the postmedial line ..... *P. fuscalis* SCHIFF. et DEN.
- h. Wings with dark purple suffusion ..... (i-i)
- h.' Wings slightly suffused with fuscous but with no dark purple suffusion ..... *P. damoalis* WLK.
- i. Fore wing with the basal half of the costal area dark purple; same coloured brook ante- and postmedial bands, hind wing with the terminal area dark purple ..... *P. memnialis* WLK.
- i.' Basal half of each wing suffused with dark purple leaving an ochreous space in cell; termen dark purple ..... *P. phoenicealis* HBN.
- j. Terminal area of the fore wing fuscous or reddish brown ..... (k-k')
- j.' Terminal area of the fore wing not fuscous or reddish brown ... (m-m')
- k. Hind wing with termen not reddish brown; ground colour of wings bright yellow ..... *P. diniasalis* WLK.
- k.' Hind wing with termen fuscous; ground colour pale yellow... (l-l')
- l. Each wing with the fuscous terminal area strongly concaved at mid-

- dle of the inner border ..... *P. andrewsalis* Wlk.
- l.' Each wing with the fuscous terminal area not concaved at middle of the inner border ..... *P. gracilis* BUTL.
- m. Hind wing with a large, dark discocellular dot; fore wing with also dark dots in and at end of cell ..... *P. moderatalis* CHRIST.
- m.' Hind wing without dark dots ..... (n-n')
- n. Postmedial line to each wing distinctly serrated ..... (o-o')
- n.' Postmedial line to each wing not serrated ..... (p-p')
- o. Postmedial line to the fore wing highly excurved between costa and vein 2 ..... *P. vicinalis* SOUTH
- o.' Postmedial line to the fore wing almost vertical from costa to vein 3 ..... *P. pervulgalis* HMPSEN.
- p. Hind wing with the basal half fuscous ..... *P. genialis* LEECH
- p.' Hind wing with the basal half not fuscous ..... (q-q')
- q. Hind wing with a postmedial line not excurved at middle .....  
..... *P. latipennis* WARR.
- q.' Hind wing with a postmedial line excurved at middle ..... (r-r')
- r. Postmedial line to the fore wing almost vertical from costa to vein 2 ..... *P. flavalis* SCHIFF. et DEN.
- r.' Postmedial line to the fore wing highly excurved between costa and vein 2 ..... *P. celatalis* Wlk.
- s. Fore wing with a broad ochreous postmedial band .....  
..... *P. sanguinalis* LINN.
- s.' Fore wing with a very narrow ochreous postmedial line .....  
..... *P. tithonialis* ZELL.
- t. Wings with brownish ochreous or yellowish markings ..... (u-u')
- t.' Fore wing with whitish markings ..... (z-z')
- t.'' Wings slightly tinged with fuscous, with black lines; cilia whitish ...  
..... *P. limbata* BUTL.
- u. Each wing with four yellow patches ..... *P. suffusalis* WARR.
- u.' Hind wing with a single yellow or brownish ochreous marking... (v-v')
- v. Fore wing with two yellow markings ..... (w-w')
- v.' Fore wing with a single brownish ochreous dot ..... (x'-x')
- w. Fore wing with a brownish ochreous postmedial line .....  
..... *P. cespitalis* SCHIFF. et DEN.
- w.' Fore wing without a postmedial line; with a quadrate yellowish patch at discocellulars, and the same coloured elongate one at about the middle of dorsum; hind wing with a broad yellowish medial band which is becoming narrower towards inner area ..... *P. chrysitis* BUTL.

- x. Fore wing with a brownish ochreous dot at costa beyond the discocellulars; hind wing with the same coloured medial band ..... *P. aurata* Scop.
- x./ Fore wing with a very narrow brownish ochreous postmedial line which is crossed through the same coloured discocellular dot; hind wing with a brownish ochreous dot at middle of the wing, from which a narrow line runs towards inner area ..... *P. sikkima* Moor.
- y. Hind wing with no whitish marking ..... (z-z')
- y./ Hind wing with white markings ..... (I-I')
- z. An elongate whitish postmedial patch at costa not concaved at the outer edge ..... *P. unipunctata* Butl.
- z./ An elongate whitish postmedial patch at costa concaved at the outer edge ..... *P. pullatalis* Christ.
- I. Hind wing with two white dots ..... (II-II')
- I./ Hind wing with a broad white band; fore wing with also a single white dot ..... *P. luctualis* Hbn.
- II. White dots to the both wings much larger in comparison with *P. astrifera* Butl. .... *P. assimilis* Butl.
- II./ White dots to the both wings much smaller in comparison with *P. assimilis* Butl. .... *P. astrifera* Butl.

### 129. *Pyrausta ciliatis* Hbn.

*Pyralis ciliatis* Huebner, *Smml. Eur. Schmett. Pyr.* p. 24, pl. 13, f. 119 (1796); Treitschke, *Schmett. Eur.* vii, p. 124 (1829) (*Botys*); Curtis, *Brit. Ent.* vi, p. 559 (1835) (*Nascia*); Leech, *Brit. Pyr.* p. 46, pl. 6, f. 4 (1886); Meyrick, *Brit. Lep.* p. 408 (1895) (*Phlyctaenia*); Hampson, *Proc. Zool. Soc. Lond.* p. 254 (1899) (*Pyrausta*); Staudinger & Rebel, *Cat. Lep. Palaearc.* ii, p. 64 (1901); Wileman, *Trans. Ent. Soc. Lond.* p. 390 (1911).

*Botys venosalis* Nolk, *Nat. Ver. Riga*, I (3/4), p. 283, pl. 1, f. 10 (1848).

*Botys virgata* Reutti, *Beitr. Rhein. Nat.* iii, p. 139 (1853).

*Antigastra ? virgatalis* Christoph, *Bul. Soc. Nat. Mosc.* lvi, p. 38 (1881).

This species was first recorded as occurring in Japan by Wileman in 1911.

**Loc. Distr.:** Sapporo (Matsumura); Oshima (Wileman).

**Gen. Distr.:** Amur; Europe; Japan.

### 130. *Pyrausta coclesalis* Wlk.

*Botys coclesalis* Walker, *Cat. Lep. Het. B. M.* xviii, p. 701 (1859); Butler, *Proc. Zool. Soc. Lond.* p. 685 (1880); Snellen, *Trans. Ent. Soc. Lond.* p. 573 (1890); Swinhoe, *Trans. Ent. Soc. Lond.* p. 269 (1890) (*Hopalia*); Hampson, *Faun. Brit. Ind. Moths*, iv, p. 441 (1896)

(*Pyrausta*); id., Proc. Zool. Soc. Lond. p. 254 (1899); LEECH, Trans. Ent. Soc. Lond. p. 498 (1901); MATSUMURA, Cat. Ins. Jap. p. 218 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1) p. 283 (1928); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 534 (1900) (*Nascia*).

*Botys intemalesalis* WALKER, Cat. Lep. Het. B. M. xix, p. 996 (1859); SWINHOE & COTES, Cat. Moths of Ind. p. 595 (1889); MEYRICK, Trans. Ent. Soc. Lond. pp. 6, 463 (1894) (*Phyctaenia*).

*Botys strenualis* WALKER, Cat. Lep. Het. B. M. xxxiv, p. 1409 (1865); SWINHOE & COTES, l. c. p. 597 (1889).

*Botys interfusalis* WALKER, l. c. xxxiv, p. 1443 (1865).

*Botys lentalis* FELDER et ROGENHOFER, Reis. Novara, Lep. II, (2), pl. 135, f. 44 (1874); SWINHOE & COTES, l. c. p. 595 (1889).

*Botys lacrimalis* LEECH, Entom. xxii, p. 69, pl. 3, f. 12 (1889).

*B. lacrimalis* LEECH was described from Japan, the type specimen of which is now preserved in the collection of the British Museum.

**Loc. Distr.:** Settsu (WILEMAN); Nagasaki (LEECH); Kumamoto (WILEMAN); Satsuma (LEECH).

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

### 131. *Pyrausta pervulgalis* HAMPSON.

*Pyrausta pervulgalis* HAMPSON, Ann. Mag. Nat. Hist. (8) xii, p. 24 (1913).

Described from Japan. The type specimen came from Satsuma, and the cotypes from Nagasaki and Satsuma.

**Loc. Distr.:** Kyoto (SUZUKI); Iyo (ARAKAWA); Satsuma (LEECH); Nagasaki (LEECH).

**Gen. Distr.:** China; Japan.

### 132. *Pyrausta diniasalis* Wlk.

*Botys diniasalis* WALKER, Cat. Lep. Het. B. M. xviii, p. 649 (1859); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 442 (1896) (*Pyrausta*); id., Proc. Zool. Soc. Lond. p. 254 (1899); LEECH, Trans. Ent. Soc. Lond. p. 499 (1901); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 284, pl. vi, f. 1 (1928).

This species was first recorded from Japan by LEECH in 1901.

**Loc. Distr.:** Sapporo (MATSUMURA); Echigo (NAKAMURA); Awa (WILEMAN); Hyuga (WILEMAN); Yanagawa (TAKAMURU); Kiushu (LEECH).

**Gen. Distr.:** India; Burma; China; Korea; Formosa; Japan.

### 133. *Pyrausta fuscalis* SCHIFF. et DEN.

*Pyralis fuscalis* SCHIFFERMÜLLER et DENIS, Syst. Schmett. Wien. p. 121 (1775); HUEBNER, Verz. Schmett. p. 357 (1826) (*Perinephela*); TREITSCHKE, Schmett. Eur. vii, p. 96 (1829) (*Botys*); HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 27 (1848); GUENÉE, Delt. et Pyr. p. 339 (1854); WALKER, Cat. Lep. Het. B. M. xviii, p. 558 (1859); LEDERER, Wien. Ent. Mon. vii, p. 372 (1863);

STEPHENS, Ill. Brit. Ent. Haust. iv, p. 56 (1834) (*Margaritia*); MEYRICK, Brit. Lep. p. 410 (1895); HAMPSON, Proc. Zool. Soc. Lond. p. 254 (1899) (*Pyrausta*); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 64 (1901).

*Pyralis cineralis* HUERNER, Smml. Eur. Schmett. Pyr. p. 22, pl. 10, f. 66 (1796); DUPONCHEL, Hist. Nat. Lep. Fr. p. 113, pl. 216, ff. 6, 7. (*Botys*).

*Margaritia pulveralis* STEPHENS, l. c. p. 56 (1834).

*Margaritia fimbriatilis* STEPHENS, l. c. p. 56 (1834).

*Pyrausta fuscobrunnealis* SOUTH, Trans. Ent. Soc. Lond. p. 498, pl. 15, f. 7 (1901).

So far as my studies go, no one has hitherto recorded this species as occurring in Japan. A single female specimen was taken in Sapporo on the 20th of August, 1917 by Prof. MATSUMURA.

**Loc. Distr.:** Sapporo (MATSUMURA).

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

### 134. *Pyrausta sambucalis* SCHIFF. et DEN.

*Pyralis sambucalis* SCHIFFERMÜLLER et DENIS, Syst. Schmett. Wien. p. 122 (1775); HUERNER, Smml. Eur. Schmett. Pyr. p. 21, pl. 13, f. 81 (1796); id., Verz. Schmett. p. 359 (1826) (*Phlyctaenaria*); STEPHENS, Ill. Brit. Ent. Haust. iv, p. 42 (1834); TREITSCHKE, Schmett. Eur. vii, p. 83 (1829) (*Botys*); DUPONCHEL, Hist. Nat. Lep. Fr. viii(2), p. 131, pl. 218, f. 3; HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 30 (1848); MOTSCHULSKY, Etud. Ent. ix, p. 37 (1860); LEDERER, Wien. Ent. Mon. vii, p. 373 (1863); MOTSCHULSKY, Bul. Soc. Nat. Mosc. xxxix (1), p. 198 (1866); GUENÉE, Delt. et Pyr. p. 364 (1854) (*Ebnia*); WALKER, Cat. Lep. Het. B. M. xviii, p. 745 (1859); MEYRICK, Brit. Lep. p. 410 (1895); HAMPSON, Proc. Zool. Soc. Lond. p. 255 (1899) (*Pyrausta*); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 64 (1901).

This species was first recorded from Japan by MOTSCHULSKY in 1860.

**Loc. Distr.:** Mt. Daisetsu (MATSUMURA); Sapporo (MATSUMURA).

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

### 135. *Pyrausta discimaculalis* HMPSON.

*Pyrausta discimaculalis* HAMPSON, Trans. Ent. Soc. Lond. p. 397 (1900); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 64 (1901); LEECH, Trans. Ent. Soc. Lond. p. 507 (1901); MATSUMURA, Cat. Ins. Jap. p. 220 (1905).

Described from Japan.

**Loc. Distr.:** Sapporo (MATSUMURA); Hokodate (LEECH); Chichibu (HIRAYAMA); Yamato (WILEMAN).

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

### 136. *Pyrausta accolalis* ZELL.

*Botys accolalis* ZELLER, Stett. Ent. Zeit. p. 190 (1867); HAMPSON, Proc. Zool. Soc. Lond. p. 255 (1899) (*Pyrausta*); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 64 (1901).

*Pionea exigualis* WILEMAN, Trans. Ent. Soc. Lond. p. 388 (1911).

*P. exigualis* WILMN. was described from Japan, the type specimen of which is now in WILEMAN'S private collection (London).

**Loc. Distr.:** Hakodate (WILEMAN); Junsainuma (WILEMAN); Hokkaido (ANDREWS).

**Gen. Distr.:** Europe; Japan.

### 137. *Pyrausta suffusalis* WARR.

*Prionopaltis ? suffusalis* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 438 (1892); HAMPSON, Proc. Zool. Soc. Lond. p. 255 (1899) (*Pyrausta*); LEECH, Trans. Ent. Soc. Lond. p. 500 (1901); MATSUMURA, Cat. Ins. Jap. p. 219 (1905).

This species was also described from Japan. Type in British Museum.

**Loc. Distr.:** Japan (PRYER).

**Gen. Distr.:** Japan.

### 138. *Pyrausta luctualis* HBN.

*Pyralis luctualis* HUEBNER, Smml. Vög.-Schmett. p. 5 (1793); id., Smml. Eur. Schmett. Pyr. p. 20, pl. 14, f. 88 (1796); TREITSCHKE, Schmett. Eur. vii, p. 200 (1829) (*Emychnia*); GUENÉE, Delt. et Pyr. p. 184 (1854); WALKER, Cat. Lep. Het. B. M. xvii, p. 329 (1859); HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 20, pl. 9, f. 63 (1848) (*Botys*); HAMPSON, Proc. Zool. Soc. Lond. p. 255 (1899) (*Pyrausta*); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 64 (1801); LEECH, Trans. Ent. Soc. Lond. p. 499 (1901); MATSUMURA, Cat. Ins. Jap. p. 220 (1905).

*Noctua unigutta* ESPER, Schmett. iv (2), p. 13, pl. 183, ff. 1, 2 (1796).

*Emychnia diversa* BUTLER, Trans. Ent. Soc. Lond. p. 585 (1881).

*E. diversa* BUTL. was described from Japan. Type in British Museum.

**Loc. Distr.:** Sapporo (MATSUMURA); Tobetsu (WILEMAN); Hakodate (WILEMAN, LEECH); Junsainuma (WILEMAN); Iwate (OGASAWARA).

**Gen. Distr.:** Europe; Amur; Japan.

### 139. *Pyrausta latipennis* WARR.

*Opistholys latipennis* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 295 (1892); HAMPSON (part), Proc. Zool. Soc. Lond. p. 255 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 64 (1901); LEECH, Trans. Ent. Soc. Lond. p. 500 (1901); MATSUMURA, Cat. Ins. Jap. p. 219 (1905).

This species was also described from Japan, the type specimen of which came from Kurigahara.

**Loc. Distr.:** Sapporo (MATSUMURA); Tokyo (MATSUMURA); Kurigahara (?).

**Gen. Distr.:** Japan.

#### 140. *Pyrausta ocellaris* WARR.

*Opsitboys ocellaris* WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 295 (1892); LEECH, Trans. Ent. Soc. Lond. p. 500 (1901) (*Pyrausta*); MATSUMURA, Cat. Ins. Jap. p. 219 (1905).

Though this species was described from Japan, I have hitherto not been able to obtain any specimens in our country.

Loc. Distr.: ?

Gen. Distr.: Japan.

#### 141. *Pyrausta moderatalis* CHRIST.

*Botys moderatalis* CHRISTOPH, Bul. Soc. Nat. Mosc. lvi, p. 25 (1881); HAMPSON, Proc. Zool. Soc. Lond. p. 257 (1899) (*Pyrausta*); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 65 (1901); LEECH, Trans. Ent. Soc. Lond. p. 500 (1901); MATSUMURA, Cat. Ins. Jap. p. 219 (1905); SHIBUYA, Ins. Mats. II (2), p. 101 (1927).

This species was first recorded as occurring in Japan by HAMPSON in 1899.

Loc. Distr.: Sapporo (MATSUMURA); Hakodate (ANDREWS); Tobetsu (WILEMAN); Komaba (HIRAYAMA).

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

#### 142. *Pyrausta vicinalis* SOUTH

*Pyrausta vicinalis* SOUTH, Trans. Ent. Soc. Lond. p. 502, pl. 15, f. 30 (1901); MATSUMURA, Cat. Ins. Jap. p. 219 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 285 (1928).

The type specimen of this species was collected in Nagasaki by LEECH.

Loc. Distr.: Nagasaki (LEECH); Satsuma (LEECH).

Gen. Distr.: China; Formosa; Japan.

#### 143. *Pyrausta flavalis* SCHIFF. et DEN.

*Pyraüs flavalis* SCHIFFERMÜLLER et DENIS, Syst. Schmett. Wien. p. 121 (1775); FABRICIUS, Mant. Ins. ii, p. 221 (1787) (*Phalaena*); id., Ent. Syst. iii (2), p. 233 (1794); HUBNER, Smml. Eur. Schmett. Pyr. p. 24, pl. 11, f. 69 (1796); id., Verz. Schmett. p. 355 (1826) (*Hopalia*); TRELSCHKE, Schmett. Eur. vii, p. 99 (1829) (*Botys*); DUPONCHEL, Hist. Nat. Lep. Fr. viii (2), p. 127, pl. 217, ff. 7, 8; HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 28 (1848); GUENÉE, Delt. et Pyr. p. 334 (1854); WALKER, Cat. Lep. Het. B. M. xviii, p. 555 (1859); LEDERER, Wien. Ent. Mon. vii, p. 370 (1863); LEECH, Brit. Pyr. p. 34, pl. 4, f. 6 (1886); MEYRICK, Brit. Lep. p. 415 (1895); HAMPSON, Proc. Zool. Soc. Lond. p. 257 (1899) (*Pyrausta*); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 65 (1901); LEECH, Trans. Ent. Soc. Lond. p. 502 (1901); MATSUMURA, Cat. Ins. Jap. p. 219 (1905).

*Botys lutea* is DUPONCHEL, Hist. Nat. Lep. Fr. viii (2), p. 331, pl. 233, f. 1 (var.); GUENÉE, l. c. p. 355 (1854).

*Botys citra* is HERRICH-SCHAEFFER, l. c. p. 28 (1848).

This species was first recorded from Japan in 1901 by LEECH.

**Loc. Distr.:** Sapporo (MATSUMURA); Hakodate (WILEMAN); Junsainuma (WILEMAN); Mt. Asama (?).

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

#### 144. *Pyrausta gracilis* BUTL.

*Samea graci* is BUTLER, Ill. Typ. Sp. Het. B. M. iii, p. 74, pl. 59, f. 4 (1879); HAMPSON, Proc. Zool. Soc. Lond. p. 258 (1899) (*Pyrausta*); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 65 (1901); LEECH, Trans. Ent. Soc. Lond. p. 500 (1901); MATSUMURA, Cat. Ins. Jap. p. 219 (1905).

*Botys explicatalis* CHRISTOPH, Bul. Soc. Nat. Mosc. lvi, p. 16 (1881).

The type specimen of *P. gracilis* BUTL. was taken from Japan.

**Loc. Distr.:** Sapporo (MATSUMURA); Hakodate (ANDREWS); Tokyo (MATSUMURA, FENTON); Yokohama (?); Nagasaki (LEECH).

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

#### 145. *Pyrausta andrewsalis* WLMN.

*Pyrausta andrewsalis* WILEMAN, Trans. Ent. Soc. Lond. p. 389, pl. xxx, f. 7 (1911).

*Pyrausta signatalis* LEECH (nec WLK.), Trans. Ent. Soc. Lond. p. 503 (1901) part.

*Pyrausta phoenizonalis* HAMPSON, Ann. Mag. Nat. Hist. (8) xii, p. 27 (1913).

*P. andrewsalis* WLMN. and *P. phoenizonalis* HMPSON. were both described from Japan.

**Loc. Distr.:** Hakodate (LEECH, ANDREWS); Hokkaido (ANDREWS).

**Gen. Distr.:** Japan.

#### 146. *Pyrausta nubilalis* HBN.

*Pyralis nubilalis* HUEBNER, Smml. Eur. Schmett. Pyr. p. 25, pl. 14, f. 94 (1796); ROBIN & LABOULBENE, Ann. Soc. Ent. Fr. p. 5, pl. 1, ff. 1-4 (1884) (*Botys*); WARREN, Proc. Zool. Soc. Lond. p. 335 (1888); LEECH, Brit. Pyr. p. 32, pl. 4, f. 4 (1886); MEYRICK, Brit. Lep. p. 416 (1895); SWINHOE & COTES, Cat. Moths of Ind. p. 596 (1889); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 435 (1896) (*Pyrausta*); id., Proc. Zool. Soc. Lond. p. 259 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 65 (1901); LEECH, Trans. Ent. Soc. Lond. p. 503 (1901); MATSUMURA, Cat. Ins. Jap. p. 219 (1905).

*Phalaena lupulina* CLERCK (nec LINN.), Ic. Ins. I, pl. 9, f. 4 (1759).

*Pyralis silacealis* HUEBNER, l. c. p. 25, pl. 18, f. 116 (1796); TREITSCHKE, Schmett. Eur. vii, p. 81 (1829) (*Botys*); DUPONCHEL, Hist. Nat. Lep. Fr. viii (2), p. 121, pl. 217, f. 4; HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 30 (1848).

*Botys lupulinalis* GUENÉE, Delt. et Pyr. p. 331 (1854); WALKER, Cat. Lep. Het. B. M. xviii,



p. 553 (1859); LEDERER, Wien. Ent. Mon. vii, p. 372 (1863).

*Botys zealis* GUENÉE, l. c. p. 332 (1854); WALKER, l. c. p. 656 (1859); LEDERER, l. c. p. 372 (1863); MOORE, Proc. Zool. Soc. Lond. p. 97 (1876); SWINHOE & COTES, l. c. p. 601 (1889) (*Ilapalia*).

*Botys variabilis* BREMER, Lep. Ost-Sib. p. 69, pl. 6, f. 9 (1854); HAMPSON, Proc. Zool. Soc. Lond. p. 255 (1899) (*Pyrausta*); STAUDINGER & REBEL, l. c. p. 64 (1901); LEECH, l. c. p. 500 (1901); MATSUMURA, l. c. p. 219 (1905).

*Ilapalia kasmirica* MOORE, Lep. Atk. p. 222, pl. 7, f. 28 (1888); SWINHOE & COTES, l. c. p. 600 (1889).

*Micraetis sanguinealis* WALKER, Ann. Mag. Nat. Hist. (6) ix, p. 294 (1892); HAMPSON, Proc. Zool. Soc. Lond. p. 259 (1899) (*Pyrausta*); LEECH, l. c. p. 502 (1901); MATSUMURA, l. c. p. 219 (1905).

*Pyrausta polygoni* DYAR, Pr. U. S. Nat. Mus. xxviii, p. 955 (1905); MATSUMURA, l. c. Suppl. p. 9 (1905); WILEMAN, Trans. Ent. Soc. Lond. p. 397 (1911).

*M. sanguinealis* WARR. and *P. polygoni* DYAR were described from Japan.

**Loc. Distr.:** Sapporo (MATSUMURA); Tokyo (?); Hakodate (LEECH); Yokohama (?); Yoshino (WILEMAN); Kii (WILEMAN); Shimonoseki (LEECH); Hyuga (WILEMAN); Satsuna (WILEMAN); Nagasaki (LEECH).

**Gen. Distr.:** Europe; India; China; Korea; Japan.

#### 147. *Pyrausta damoalis* Wlk.

*Botys damoalis* WALKER, Cat. Lep. Het. B. M. xviii, p. 656 (1859); MOORE, Proc. Zool. Soc. Lond. p. 96 (1867); SWINHOE & COTES, Cat. Moths of Ind. p. 594 (1889); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 436 (1896) (*Pyrausta*); id., Proc. Zool. Soc. Lond. p. 259 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 259 (1901); MATSUMURA, Cat. Ins. Jap. p. 219 (1905).

This species was first recorded as occurring in Japan by HAMPSON in 1896.

**Loc. Distr.:** Tokyo (FENTON); Yokohama (JONAS); Mt. Daisen (MATSUMURA).

**Gen. Distr.:** China; Formosa?; Japan.

#### 148. *Pyrausta memnialis* Wlk.

*Ebulea ? memnialis* WALKER, Cat. Lep. Het. B. M. xix, p. 1010 (1859); HAMPSON, Proc. Zool. Soc. Lond. p. 263 (1899) (*Pyrausta*); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 539 (1900); LEECH, Trans. Ent. Soc. Lond. p. 505 (1901); MATSUMURA, Cat. Ins. Jap. p. 220 (1905).

Recorded first from Japan by HAMPSON in 1899.

**Loc. Distr.:** Teshio (MATSUMURA); Sapporo (MATSUMURA); Nikko (MARRIES); Tokyo (FENTON, WILEMAN); Yokohama (JONAS); Sakata (LEECH); Yoshino (WILEMAN).

**Gen. Distr.:** China; Japan.

**149. *Pyrausta celatalis* Wlk.**

*Botys celatalis* WALKER, Cat. Lep. Het. B. M. xviii, p. 657 (1859); MOORE, Lep. Ceyl. iii, p. 345 (1886) (*Ebulea*); SWINHOE & COTES, Cat. Moths of Ind. p. 605 (1889); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 433 (1896) (*Pyrausta*); id., Proc. Zool. Soc. Lond. p. 263 (1899); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 537 (1900); STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 80 (1918); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 286, pl. vi, f. 17 (1928).

*Botys rhoecusalis* WALKER, l. c. xix, p. 1000 (1859).

*Botys subcrocealis* SNELLEN, Tijd. v. Ent. xxiii, p. 208 (1880).

*Phlyctaenodes ochrealis* WILEMAN, Trans. Ent. Soc. Lond. p. 384 (1911).

*P. ochrealis* WLMN. was described from Japan, the type specimen of which was collected in Yoshino, and is now in WILEMAN's private collection.

**Loc. Distr.:** Yoshino (WILEMAN).

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

**150. *Pyrausta hyalodiscalis* WARR.**

*Rhectothyris hyalodiscalis* WARREN, Ann. Mag. Nat. Hist. (6) xvi, p. 471 (1895); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 434 (1896) (*Pyrausta*); id., Proc. Zool. Soc. Lond. p. 263 (1899); WILEMAN, Trans. Ent. Soc. Lond. p. 391 (1911); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 287, pl. vi, f. 25 (1928).

*Crocidophora carapina* STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 68 (1918).

Recorded first from Japan by WILEMAN in 1911.

**Loc. Distr.:** Yoshino (WILEMAN).

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

**151. *Pyrausta pullatalis* CHRIST.**

*Botys pullatalis* CHRISTOPH, Bul. Soc. Nat. Mosc. lvi, p. 12 (1881); HAMPSON, Proc. Zool. Soc. Lond. p. 271 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 68 (1901) (*Pyrausta*); LEECH, Trans. Ent. Soc. Lond. p. 512 (1901); MATSUMURA, Cat. Ins. Jap. p. 221 (1905).

This species was first recorded as occurring in Japan by LEECH in 1911.

**Loc. Distr.:** Nagahama (LEECH).

**Gen. Distr.:** Amur; Japan.

**152. *Pyrausta genialis* LEECH**

*Botys genialis* LEECH, Entom. xxii, p. 69, pl. 3, f. 10 (1889); HAMPSON, Proc. Zool. Soc. Lond. p. 246 (1899) (*Pionea*); LEECH, Trans. Ent. Soc. Lond. p. 493 (1901); MATSUMURA, Cat. Ins. Jap. p. 217 (1905).

The female type specimen was taken at Nagasaki, and the male from Ningpo (China).

**Loc. Distr.:** Nagasaki (LEECH); Satsuma (LEECH).

**Gen. Distr.:** China; Japan.

### 153. *Pyrausta phoenicealis* HBN.

*Haematia phoenicealis* HUEBNER, Zutr. Schmett. I, p. 22, ff. 115, 116 (1818); id., Verz. Schmett. p. 349 (1826); GUENÉE, Delt. et Pyr. p. 173 (1854) (*Rhodaria*); WALKER, Cat. Lep. Het. B. M. xvii, p. 315 (1859); id., l. c. xix, p. 922 (1859); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 431 (1896) (*Pyrausta*); id., Proc. Zool. Soc. Lond. p. 264 (1899); LEECH, Trans. Ent. Soc. Lond. p. 507 (1901); MATSUMURA, Cat. Ins. Jap. p. 220 (1905); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 288, pl. vi, f. 2 (1928).

*Rhodaria flegialis* WALKER, l. c. xvii, p. 316 (1859).

*Rhodaria panopealis* WALKER, l. c. p. 318 (1859).

*Botys ? coeciialis* WALKER, l. c. xviii, p. 581 (1859).

*Rhodaria probalis* WALKER, l. c. xix, p. 923 (1859).

*Rhodaria ocellusalis* WALKER, l. c. p. 923 (1859).

*Rhodaria noraxalis* WALKER, l. c. p. 926 (1859).

*Rhodaria catenalis* WALKER, l. c. xxxiv, p. 1282 (1865).

*Rhodaria juncturalis* WALKER, l. c. p. 1283 (1865); SWINHÖE, Proc. Zool. Soc. Lond. p. 457 (1886); SWINHÖE & COTES, Cat. Moths of Ind. p. 642 (1889).

*Rhodaria concatenalis* WALKER, l. c. p. 1284 (1865); MOORE, Proc. Zool. Soc. Lond. p. 90 (1867); SWINHÖE & COTES, l. c. p. 642 (1889).

*Myriostephes heliamma* MEYRICK, Trans. Ent. Soc. Lond. p. 448 (1885).

Recorded from Japan by LEECH in 1901.

**Loc. Distr.:** Nikko (?); Komaba (HIRAYAMA); Tsuruga (LEECH).

**Gen. Distr.:** Neotropical, Ethiopian, Oriental and Australian regions (HAMPSON); Formosa; Japan.

### 154. *Pyrausta cespitalis* SCHIFF. et DEN.

*Pyralis cespitalis* SCHIFFERMÜLLER et DENIS, Syst. Schmett. Wien. p. 123 (1775); HUEBNER, Smml. Eur. Schmett. Pyr. p. 15, pl. 6, f. 39 (1796); SCHRANCK, Faun. Boica, II, (2), p. 66 (1802); HAWROTH, Lep. Brit. p. 390 (1811); FABRICIUS, Mant. Ins. II, p. 222 (1878) (*Phalaena*); id., Ent. Syst. iii (2), p. 238 (1794); TREITSCHKE, Schmett. Eur. vii, p. 173 (1829) (*Pyrausta*); DUPONCHEL, Hist. Nat. Lep. Fr. viii (2), p. 232, pl. 225, ff. 3, 4; STEPHENS, Ill. Brit. Ent. Haust. iv, p. 34 (1834); MEYRICK, Brit. Lep. p. 414 (1895); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 430 (1896); id., Proc. Zool. Soc. Lond. p. 265 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 67 (1901); LEECH, Trans. Ent. Soc. Lond. p. 505 (1901); WILEMAN, Trans. Ent. Soc. Lond. p. 390 (1911); HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 34 (1848) (*Botys*); LEDERER, Wein. Ent. Mon. vii, p. 368 (1863); GUENÉE, Delt. et Pyr. p. 176 (1854) (*Herbula*); WALKER, Cat. Lep. Het. B. M. xvii, p. 321 (1859); BUILE, Ann. Mag. Nat. Hist. (5) ix, p. 210 (1882); WARREN, Proc. Zool. Soc. Lond. p. 334 (1888); SWINHÖE & COTES, Cat. Moths of Ind. p. 643 (1889).

*Phalaena despicata* SCOPOLI, Ent. Carn. p. 231 (1763).

*Pyralis sordidalis* HUEBNER, l. c. p. 15, pl. 7, f. 40 (1796); HAWROTH, l. c. p. 391 (1811); STEPHENS, l. c. p. 34 (1834) (*Pyrausta*).

*Pyrausta intermedialis* DUPONCHEL, l. c. p. 350, pl. 234, f. 1 (1834).

*Pyrausta tendinosalis* BREMER, Lep. Ost-Sib. p. 99, pl. 8, f. 10 (1864).

*Herbula picarialis* WALKER, Cat. Lep. Het. B. M. xxxiv, p. 1287 (1865).

This species was first recorded from Japan by WILEMAN in 1911.

**Loc. Distr.:** Nikko (WILEMAN); Tokyo (HIRAYAMA); Yoshino (WILEMAN).

**Gen. Distr.:** Palaearctic region; N. India; Burma; Korea; Japan.

### 155. *Pyrausta sanguinalis* LINN.

*Phalaena (Pyraïs) sanguinalis* LINNAEI, Syst. Nat. ed. xii, p. 882 (1767); SCHIFFERMÜLLER et DENIS, Syst. Schmett. Wien. p. 124 (1775) (*Pyralis*); HUEBNER, Smml. Eur. Schmett. Pyr. p. 15, pl. 6, f. 33 (1796); FABRICIUS, Spec. Ins. ii, p. 274 (1781) (*Phalaena*); id., Mant. Ins. ii, p. 221 (1787); id., Ent. Syst. iii (2), p. 235 (1794); TREITSCHKE, Schmett. Eur. vii, p. 163 (1829) (*Pyrausta*); DUPONCHEL, Hist. Nat. Lep. Fr. viii (2), p. 214, pl. 224, f. 2; ZELLER, Isis, p. 614 (1847); MEYRICK, Brit. Lep. p. 413 (1895); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 432 (1895); id., Proc. Zool. Soc. Lond. p. 266 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 67 (1901); LEECH, Trans. Ent. Soc. Lond. p. 506 (1901); MATSUMURA, Cat. Ins. Jap. p. 220 (1905); HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 23 (1848) (*Botys*); LEDERER, Wien. Ent. Mon. vii, p. 363 (1863); GUENÉE, Delt. et Pyr. p. 170 (1854) (*Rhodaria*); WALKER, Cat. Lep. Het. B. M. xvii, p. 313 (1859); id., l. c. xix, p. 922 (1859); LEECH, Brit. Pyr. p. 24, pl. 3, f. 1 (1886).

*Pyralis haematialis* HUEBNER, Smml. Eur. Schmett. Pyr. pl. 28, f. 178 (1796) var.; id., Verz. Schmett. p. 349 (1826) (*Syllythria*); GUENÉE, l. c. p. 170 1854 (*Rhodaria*); WALKER, l. c. xvii, p. 314 (1859).

*Pyrausta auroralis* ZELLER, Isis, p. 645 (1847) var.

*Pyrausta virginialis* DUPONCHEL, l. c. p. 216, pl. 224, f. 3, var.; HERRICH-SCHAEFFER, l. c. p. 24, pl. 7, f. 43 (1848) (*Botys*); GUENÉE, l. c. p. 171 (1854) (*Rhodaria*); WALKER, l. c. p. 314 (1859).

*Pyrausta contigialis* SOUTH, Trans. Ent. Soc. Lond. p. 506 (1901).

Recorded from Japan by LEECH in 1901.

**Loc. Distr.:** Yoshino (WILEMAN); Kobe (WILEMAN); Nagasaki (LEECH).

**Gen. Distr.:** Europe; India; China; Korea; Japan.

### 156. *Pyrausta tithonialis* ZELL.

*Botis tithonialis* ZELLER, Verh. Zool.-Bot. Gess. Wien. xxii, p. 504, pl. 3, f. 15 (1872); HAMPSON, Proc. Zool. Soc. Lond. p. 266 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 67 (1901); LEECH, Trans. Ent. Soc. Lond. p. 506 (1901).

*Botys dotatalis* CHRISTOPH, Bul. Soc. Nat. Mosc. lvi, p. 13 (1881).

Hitherto not recorded from Japan. The following specimens are preserved in the collection of the Entomological Museum of the Hokkaido Imp. Univ. Sapporo.

- 1 ♂, 11-vii-1918, Sapporo (MATSUMURA).
- 2 ♂♂, 16-vii-1918, " ( " ).
- 1 ♂, 8-viii- (?), Jozankei ( " ).
- 1 ♂, 17-viii-1922, Daisen ( " ).

**Loc. Distr.:** Sapporo (MATSUMURA); Jozankei (MATSUMURA); Mt. Daisen (MATSUMURA).

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

### 157. *Pyrausta chrysitis* BUTL.

*Pyrausta chrysitis* BUTLER, Trans. Ent. Soc. Lond. p. 584 (1881); HAMPSON, Proc. Zool. Soc. Lond. p. 269 (1899); LEECH, Trans. Ent. Soc. Lond. p. 510 (1901); MATSUMURA, Cat. Ins. Jap. p. 220 (1905).

This species was described from Japan, the type specimen of which was collected in Tokyo.

**Loc. Distr.:** Tokyo (FENTON); Iyo (WILEMAN); Awa (WILEMAN).

**Gen. Distr.:** Japan.

### 158. *Pyrausta unipunctata* BUTL.

*Pyrausta unipunctata* BUTLER, Trans. Ent. Soc. Lond. p. 584 (1881); HAMPSON, Proc. Zool. Soc. Lond. p. 269 (1899); LEECH, Trans. Ent. Soc. Lond. p. 511 (1901); MATSUMURA, Cat. Ins. Jap. p. 220 (1905).

Described from Japan. The type specimen came from Yokohama.

**Loc. Distr.:** Tokyo (WILEMAN); Yokohama (PRYER, WILEMAN); Yamato (WILEMAN); Daisen (MATSUMURA); Kyoto (SUZUKI); Iyo (WILEMAN); Higo (WILEMAN); Nagasaki (LEECH); Hakodate (ANDREWS).

**Gen. Distr.:** China; Japan.

### 159. *Pyrausta limbata* BUTL.

*Ennychia limbata* BUTLER, Ill. Typ. Sp. Het. B. M. iii, p. 73, pl. 58, f. 13 (1879); HAMPSON, Proc. Zool. Soc. Lond. p. 269 (1899) (*Pyrausta*); LEECH, Trans. Ent. Soc. Lond. p. 511 (1901); MATSUMURA, Cat. Ins. Jap. p. 220 (1905).

This species was also described from Japan.

**Loc. Distr.:** Sapporo (MATSUMURA); Tokyo (ISSHIKI); Yokohama (JONAS, WILEMAN); Yoshino (WILEMAN); Tsuruga (LEECH); Satsuma (LEECH); Nagasaki (LEECH).

**Gen. Distr.:** China; Japan.

### 160. *Pyrausta astrifera* EUTL.

*Ennychia astrifera* EUTHER, Ill. Typ. Sp. Het. B. M. iii, p. 73, pl. 58, f. 14 (1879); HAMPSON, Proc. Zool. Soc. Lond. p. 270 (1899) (*Pyrausta*); LEECH, Trans. Ent. Soc. Lond. p. 511 (1901); MATSUMURA, Cat. Ins. Jap. p. 221 (1905).

Described from Japan.

**Loc. Distr.:** Nikko (WILEMAN); Tokyo (FENTON); Yokohama (JONAS); Yamato (WILEMAN); Shimonoseki (LEECH); Iyo (ARAKAWA); Hakodate (WILEMAN).

**Gen. Distr.:** Korea; Japan.

### 161. *Pyrausta assimilis* BUTL.

*Ennychia assimilis* BUTLER, Ill. Typ. Sp. Het. B. M. iii, p. 73, pl. 53, f. 12 (1879); HAMPSON, Proc. Zool. Soc. Lond. p. 270 (1899) (*Pyrausta*); LEECH, Trans. Ent. Soc. Lond. p. 511 (1901); MATSUMURA, Cat. Ins. Jap. p. 221 (1905).

The type specimen of this species was taken in Hakodate by WHITELY.

**Loc. Distr.:** Sapporo (MATSUMURA); Hakodate (WHITELY); Junsainuma (WILEMAN); Oshima (WILEMAN).

**Gen. Distr.:** Japan.

### 162. *Pyrausta aurata* SCOP.

*Phalaena aurata* SCOPOLI, Ent. Carn. p. 227 (1763); LEECH, Brit. Pyr. p. 22, pl. 2, f. 11 (1886) (*Pyrausta*); MEYRICK, Brit. Lep. p. 414 (1895); HAMPSON, Proc. Zool. Soc. Lond. p. 267 (1899); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 68 (1901).

*Pyralis funicealis* SCHIFFERMÜLLER et DENIS, Syst. Schmett. Wien. p. 317 (1775); HUEBNER, Verz. Schmett. p. 349 (1826) (*Porphyritis*); TREITSCHKE, Schmett. Eur. vii, p. 168 (1829) (*Pyrausta*); HERRICH-SCHAEFFER, Syst. Schmett. Eur. iv, p. 21 (1848); GUENÉE, Delt. et Pyr. p. 165 (1854); WALKER, Cat. Lep. Het. B. M. xvii, p. 308 (1859).

*Pyralis prophyraüs* HUEBNER, Smml. Eur. Schmett. Pyr. pl. 6, f. 36 (1856); STEPHENS, Syst. Cat. Brit. Ins. ii, p. 162 (1829) (*Pyrausta*); id., Ill. Brit. Ent. Haust. iv, p. 36 (1834).

Hitherto unrecorded from this country. A single male specimen was obtained in Kitami, Hokkaido by S. ISHIDA, but its collected date is unknown.

**Loc. Distr.:** Hokkaido (ISHIDA).

**Gen. Distr.:** Europe; Japan.

### 163. *Pyrausta silkima* MOOR.

*Porphyritis silkima* MOORE, Lep. Atk. p. 207 (1888); SWINHOE & CUTTS, Cat. Moths of Ind. p. 643 (1889); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 430 (1896) (*Pyrausta*); id., Proc. Zool. Soc. Lond. p. 268 (1899); LEECH, Trans. Ent. Soc. Lond. p. 508 (1901); MATSUMURA, Cat. Ins. Jap. p. 220 (1905).

*Porphyritis maculata* EUTLER, Ill. Typ. Sp. Het. B. M. vii, p. 93, pl. 184, f. 16 (1839).

This species was recorded first by LEECH in 1901 as occurring in Japan.

**Loc. Distr.:** Hakodate (ANDREWS); Tsuruga (LEECH); Yamato (WILEMAN); Usui (SUGITANI); Awa (WILEMAN).

**Gen. Distr.:** India; China; Japan.

Genus *Heliothela* GN.

*Heliothela* GUENÉF, Delt. et Pyr. p. 152 (1854)... .. type *atralis* HBN.

**164. *Heliothela nigralbata* LEECH**

*Heliothela nigralbata* LEECH, Entom. xxii, p. 65, pl. iv, f. 7 (1889); id., Trans. Ent. Soc. Lond. p. 513 (1901); MATSUMURA, Cat. Ins. Jap. p. 221 (1905).

*Heliothela nigralbata* HAMPSON, Proc. Zool. Soc. Lond. p. 281 (1899).

This species was described from China, and at the same time LEECH also gave Japan as a locality of this species.

In 1899, HAMPSON redescribed LEECH's type specimen under the same name.

**Loc. Distr.:** Tokyo (SUZUKI); Kumamoto (KAWAMURA).

**Gen. Distr.:** China; Japan.

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## POSTSCRIPT

In this paper I have not dealt with *Nomis tessellalis* MORSCH.<sup>1)</sup> *Botys lineolalis* MORSCH.<sup>2)</sup> and *Lamprosema dairalis* WLK.<sup>3)</sup> as I have hitherto unable to obtain any specimens and to give my personal investigations upon these three species even though these were described or recorded from Japan. Also I did not put genus *Prionopaltis* WARR.<sup>4)</sup> (type *sericea* WARR.) in the synopsis of genera as I have been unable to find its generic characteristics to be classified from other genera. I hope therefore may able to give a systematic accounts upon the preceding genus and species in the early future.

During the course of reading this paper I found that I had carelessly omitted genus *Hemiscopis* in the synopsis of genera, and *Hemiscopis cinera* WARR. in the historical review, the latter was described from Japan<sup>5)</sup> as a new species. The genus *Hemiscopis* is situated between genera *Maruca* and *Diasemia*, and from the former the genus is separated by the antennae being shorter than the fore wing, and from the latter it is distinguished by the maxillary palpi with pointed tufts of hair at the extremities instead of being strongly dilated with scales.

Therefore one hundred sixty-five species together with three uncertain species to me, one subspecies with one variety under forty-three genera are known to us as occurring in Japan up to the present time.

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1) Etud. Entom. p. 38 (1860).

2) Bul. Soc. Nat. Mosc. xxxix, p. 198 (1866).

3) Recorded as occurring in Japan (Kobe) by CARADJA in 1926 (Deut. Ent. Zeit. Iris. xl (4), p. 170).

4) Ann. Mag. Nat. Hist. (6) ix, p. 437 (1892).

5) Ann. Mag. Nat. Hist. (6) ix, p. 396 (1892).



# INDEX

	PAGE		PAGE
abdicalis . . . . .	159	argyria . . . . .	160
accalis . . . . .	209	Aripana . . . . .	159
accessalis . . . . .	162	Asciodes . . . . .	182
acerrimalis . . . . .	166	assimilis . . . . .	235
accipitralis . . . . .	185	astomalis . . . . .	168
accolalis . . . . .	226	astrifera . . . . .	234
Acharana . . . . .	204	Astura . . . . .	182
actoricnalis . . . . .	194	aurantiacalis . . . . .	185
acutellus . . . . .	210	aurata . . . . .	235
adipalis . . . . .	168	auroralis . . . . .	233
advenalis . . . . .	192	auratalis . . . . .	218
Aedis . . . . .	198	aurea . . . . .	185
aeriferalis . . . . .	160	aurealis . . . . .	202
affictalis . . . . .	169	aurimargo . . . . .	202
Aglaops . . . . .	211	aurorina . . . . .	218
Agrotera . . . . .	162	basipunctalis . . . . .	188
albalis . . . . .	198	balteata . . . . .	185
albifascialis . . . . .	161	bipunctalis . . . . .	198
albifimbrialis . . . . .	216	Blepharucha . . . . .	206
albifuscalis . . . . .	192	Bocchoris . . . . .	167
albilunalis . . . . .	168	bootanalis . . . . .	169
albopedalis . . . . .	213	Boreophila . . . . .	221
alϕonalis . . . . .	190	Botyodes . . . . .	181
Algedonia . . . . .	221	bracteolatis . . . . .	162
amphisalis . . . . .	169	braurealis . . . . .	168
Analthes . . . . .	170	butyrosa . . . . .	181
Anania . . . . .	221	caberalis . . . . .	159
anaxialis . . . . .	206	Cadarena . . . . .	190
andamanalis . . . . .	184	Calamochrous . . . . .	210
andrewsialis . . . . .	229	calliophis . . . . .	177
angustalis . . . . .	161	capensis . . . . .	191
angustalis . . . . .	214	caradrinalis . . . . .	172
Antennodes . . . . .	171	carapina . . . . .	231
annulata . . . . .	193	catalaunalis . . . . .	209
annuligeralis . . . . .	188	catenalis . . . . .	177
Anomostictis . . . . .	167	catenalis . . . . .	232
Antigastra . . . . .	209	celatalis . . . . .	231
Aplomastix . . . . .	174	celsalis . . . . .	193
aptalis . . . . .	169	Cenocnemis . . . . .	190
arbiter . . . . .	164	Ceratarcha . . . . .	181
arcualis . . . . .	216	cespitalis . . . . .	232
argentalis . . . . .	208	Chabula . . . . .	167
		Charema . . . . .	171
		Chloauges . . . . .	190
		chlorophanta . . . . .	174
		Chobera . . . . .	200
		Choristostigma . . . . .	208
		chrysitis . . . . .	234
		chrysorycta . . . . .	177
		cicatricosa . . . . .	167
		cilialis . . . . .	210
		cilialis . . . . .	224
		cinctalis . . . . .	207
		Cindaphia . . . . .	211
		cinera . . . . .	
		cineralis . . . . .	226
		cinerea . . . . .	211
		Circobotys . . . . .	200
		Cirrocephala . . . . .	171
		citralis . . . . .	229
		Cnaphalocrocis . . . . .	165
		coecsalis . . . . .	224
		coecilialis . . . . .	232
		Coenostola . . . . .	171
		commixta . . . . .	176
		concatenalis . . . . .	232
		Condega . . . . .	171
		confusalis . . . . .	178
		coniotalis . . . . .	211
		connexalis . . . . .	179
		Conogethes . . . . .	172
		consimilis . . . . .	199
		consocialis . . . . .	194
		consocia . . . . .	220
		contingens . . . . .	177
		contigualis . . . . .	233
		contubernalis . . . . .	199
		corycialis . . . . .	160
		cosialis . . . . .	184
		Cosmocreon . . . . .	221
		costisignalis . . . . .	176
		cribrata . . . . .	159
		crithonalis . . . . .	172
		Crochiphora . . . . .	202

Crocidocnemis . . . . .	182	erucalis . . . . .	199	Gyptitia . . . . .	221
Crocidophora... . . . .	200	Euctenosplia . . . . .	206	haematalis . . . . .	233
crocealis... . . . .	185	Eudiotis . . . . .	190	Haematia . . . . .	221
Cryptographis . . . . .	199	Eurrhyarodes . . . . .	162	Haliotigris . . . . .	182
culytralis . . . . .	220	euryclealis . . . . .	169	Hapalia . . . . .	211
cuprinalis . . . . .	169	euryclealis . . . . .	180	Haritala... . . . .	189
		Eurycreon . . . . .	206	Haritalodes . . . . .	182
<b>D</b>		Eutrichotis . . . . .	159	Hedylepta . . . . .	174
Dadessa . . . . .	172	evenoralis . . . . .	201	heliamma . . . . .	232
damoalis... . . . .	230	Evergestis . . . . .	198	Heliothela . . . . .	236
dascyllusalis . . . . .	177	exemplaris . . . . .	180	Hellula . . . . .	196
deficiens . . . . .	188	exemptalis . . . . .	197	Hemiscopis . . . . .	211
derogata . . . . .	187	exigualis . . . . .	227	Herbula . . . . .	221
desmialis . . . . .	189	explicatalis . . . . .	229	Hercyna . . . . .	221
despicata . . . . .	232	extimalis . . . . .	199	hitealis . . . . .	229
detracta . . . . .	174	fascialis . . . . .	161	heterogenalis... . . . .	201
Deuterarcha . . . . .	189	fasciculatalis . . . . .	166	Homochroa . . . . .	198
Diacme . . . . .	221	fazanalis . . . . .	168	Hoplisa . . . . .	171
Diasemia . . . . .	208	fentoni . . . . .	218	Hoterodes . . . . .	190
Diastictis . . . . .	167	ferrugalis . . . . .	214	hyalinata . . . . .	192
Dicepalia . . . . .	210	fimbrialis . . . . .	226	Hyalitis . . . . .	182
Dichocrocis . . . . .	172	flavalis . . . . .	228	Hyalobathra . . . . .	199
Didymostoma . . . . .	167	flaveolata . . . . .	206	hyalodiscalis . . . . .	231
diffascialis . . . . .	161	flaviciliata . . . . .	202	hybriadalis . . . . .	203
diniasalis . . . . .	225	fimbriata . . . . .	221	Hymenia . . . . .	161
discimaculalis . . . . .	226	flegialis . . . . .	232	hypatialis . . . . .	215
diversa . . . . .	227	forficalis... . . . .	219		
Dolichosticha . . . . .	166	formosana . . . . .	161	<b>I</b>	
dotatalis... . . . .	233	fraterna . . . . .	185	Idiostrophe . . . . .	182
dubia . . . . .	187	fumidalis . . . . .	180	Idusia . . . . .	174
Dysallacta . . . . .	190	fuscalis . . . . .	186	ilusalis . . . . .	177
		fuscalis . . . . .	208	immundalis . . . . .	204
<b>E</b>		fuscalis . . . . .	225	incomitata . . . . .	189
Ebulea . . . . .	221	fuscescens . . . . .	205	indica . . . . .	191
Ebuleodes . . . . .	221	fuscobrunnealis . . . . .	226	indicata . . . . .	179
effertalis... . . . .	163	fuscomarginalis . . . . .	186	indistincta . . . . .	178
egentalis... . . . .	216	Gadessa . . . . .	172	indistinctalis... . . . .	203
Eidama . . . . .	170	gazorialis . . . . .	192	inferior . . . . .	189
Emmelia . . . . .	205	genialis . . . . .	231	inornata . . . . .	214
Enchocnemidia . . . . .	190	gensanalis . . . . .	201	inornatalis . . . . .	207
Endocrossis . . . . .	181	Glaucomœ . . . . .	221	insignis . . . . .	186
Ennychia . . . . .	221	glauclalis . . . . .	193	inspersalis . . . . .	169
Entephria . . . . .	159	Glyphodes . . . . .	190	intemalesalis... . . . .	225
Ephelis . . . . .	206	Goniorhynchus . . . . .	180	interfusalis . . . . .	225
Epherema . . . . .	182	gracilis . . . . .	229	intermedialis... . . . .	233
Epicorsia . . . . .	221	guttatalis . . . . .	174	inuitata... . . . .	193
Epordia . . . . .	171			invalidalis . . . . .	179
erebina . . . . .	184			iolealis . . . . .	166
erosalis . . . . .	163				
ersealis . . . . .	173				

iridialis ... .. 189	maculalis . ... .. 185	Nimocomma ... .. 200
Ischnurges ... .. 197	maculalis . ... .. 189	Niphograptus ... .. 221
Isocentris . ... .. 199	maculata . ... .. 235	Nistra ... .. 162
	magna ... .. 188	noctescens ... .. 172
<b>jessica</b> ... .. 214	mandarinalis ... .. 201	noctuella . ... .. 203
jolinalis ... .. 166	Marasmia . ... .. 166	Nolekenia ... .. 190
jovialis ... .. 194	margaritalis ... .. 199	Nomis ... .. 211
junctalis ... .. 199	Margarodes ... .. 190	Nomophila ... .. 203
juncturalis ... .. 232	Margaronia ... .. 190	noraxalis . ... .. 232
	marginalis ... .. 169	Nosophora ... .. 170
<b>Kasmirica</b> ... .. 230	marginalis ... .. 180	Notarcha . ... .. 182
	marginalis ... .. 205	Notaspis . ... .. 210
<b>laevalis</b> ... .. 207	marisalis . ... .. 167	notatalis . ... .. 169
labatonalis ... .. 220	marthesiusalis . ... .. 193	nubilalis . ... .. 229
lacrimalis . ... .. 225	martialis . ... .. 215	nycterina . ... .. 201
lactiferalis ... .. 160	Maruca ... .. 202	
Lamprosema ... .. 174	medinalis . ... .. 165	<b>Oblita</b> ... .. 190
Lasiacme . ... .. 166	Melanomocyna . ... .. 211	obliquistriga ... .. 180
latipennis . ... .. 227	Metallarcha ... .. 206	obliquistriga ... .. 205
lentalis ... .. 225	memnialis ... .. 230	ocellaris... .. 218
Lepidoplaga ... .. 212	Merotoma ... .. 174	ocellusalis ... .. 232
Leucinodella ... .. 162	Metasciodes ... .. 174	ochrealis . ... .. 164
Leucraspeda . ... .. 199	Metasia ... .. 211	ochrealis . ... .. 231
leucophaealis ... .. 215	Micractis ... .. 221	oemealis . ... .. 184
licarsialis ... .. 204	Microstega ... .. 211	octoguttalis ... .. 197
lilliputalis ... .. 177	Microthyris ... .. 171	Oebia ... .. 196
limbalis . ... .. 166	mimula ... .. 177	Oedemataarcha . ... .. 171
limbalis . ... .. 207	minnehaha ... .. 217	Omiodes... .. 171
limbata ... .. 234	Minudea . ... .. 212	Omphisa ... .. 198
lineolalis . ... .. 237	misera ... .. 179	onychinalis ... .. 168
liquidalis . ... .. 196	moderatalis ... .. 228	Opsibotys ... .. 221
litalis ... .. 208	moeliusalis ... .. 179	orbicentralis ... .. 217
litterata ... .. 208	Molybdantha . ... .. 162	Orthocona ... .. 174
Loxocreon ... .. 174	Morocosma ... .. 190	Orthospila ... .. 172
Loxoscia . ... .. 182	multilinealis ... .. 187	Osiriaca . ... .. 211
Loxostege. ... .. 205	munitalis . ... .. 171	Ostrinia . ... .. 221
luctualis . ... .. 227		otysalis ... .. 168
luctuosalis ... .. 184	<b>Nacoleia</b> ... .. 174	
lugubralis . ... .. 217	Nagia ... .. 182	<b>Pachyarches</b> ... .. 190
lupulina ... .. 208	Nascia ... .. 221	Pachyzancla ... .. 204
lupulina ... .. 229	nebulalis . ... .. 215	Pachyzancloides ... .. 198
lupulinalis ... .. 229	memoralis . ... .. 163	Pagyda ... .. 163
Lygropia . ... .. 189	neomera . ... .. 192	pallidinotalis . ... .. 178
Lypotigris. ... .. 182	nercis ... .. 193	pandalis . ... .. 214
	Nesolocha ... .. 197	panopealis ... .. 232
<b>Macrospectrodes</b> ... .. 174	nicippealis ... .. 174	pantherata ... .. 160
maculalis . ... .. 176	nigralbata ... .. 236	Pantoeoecome ... .. 204
maculalis . ... .. 181	nigropunctalis . ... .. 192	Pantographa ... .. 182

Paradosis . . . . .	190	Propnantis . . . . .	197	surusalis . . . . .	173
Paraedis . . . . .	198	prophyralis . . . . .	235	Sathria . . . . .	182
Paratalanta . . . . .	220	protensa . . . . .	214	satsumalis . . . . .	176
Parbokla . . . . .	171	Protermia . . . . .	206	schaliphora . . . . .	164
Pardomima . . . . .	189	pruipennis . . . . .	210	schenklingi . . . . .	217
Parotis . . . . .	190	prunalis . . . . .	215	Sciorista . . . . .	221
partialis . . . . .	193	pryeri . . . . .	195	Sclerocona . . . . .	210
Parudea . . . . .	221	Psara . . . . .	204	Scopolia . . . . .	198
Patania . . . . .	182	Pseudebulea . . . . .	211	Sebunta . . . . .	221
paucipunctalis . . . . .	160	pseudocrocealis . . . . .	219	segnalis . . . . .	184
pelealis . . . . .	206	pullatalis . . . . .	231	selenalis . . . . .	206
Pelecyntis . . . . .	174	Pulveralis . . . . .	226	semifascialis . . . . .	173
Peribona . . . . .	170	punctiferalis . . . . .	173	semiflava . . . . .	190
Perispasta . . . . .	211	punicialis . . . . .	235	Semioceros . . . . .	174
pernitescens . . . . .	186	Pycnarmon . . . . .	159	semitritalis . . . . .	170
perspectalis . . . . .	192	pyloalis . . . . .	195	Sericoplaga . . . . .	211
pervulgalis . . . . .	225	Pyralocymatophora . . . . .	159	Sestia . . . . .	190
Phaedropsis . . . . .	172	Pyrausta . . . . .	221	sexmaculosus . . . . .	199
Phakellura . . . . .	190	Quadrilineata . . . . .	165	signatalis . . . . .	229
pharaxalis . . . . .	204	quadrinaculalis . . . . .	189	sikkima . . . . .	235
Phlyctaenodes . . . . .	205	quadrinaculalis . . . . .	194	silacealis . . . . .	229
phoenicealis . . . . .	232	quinqnelineata . . . . .	164	similis . . . . .	177
phoenizonalis . . . . .	229	Radiorista . . . . .	170	sinensellus . . . . .	210
Phostria . . . . .	171	recurvalis . . . . .	161	Siriocauta . . . . .	202
Phryganodes . . . . .	171	reductalis . . . . .	179	Sisyrophora . . . . .	190
phycidalis . . . . .	197	reniferalis . . . . .	168	smaragdina . . . . .	198
picarialis . . . . .	233	Rhectocraspeda . . . . .	204	sodalis . . . . .	219
Pitama . . . . .	190	Rhectothyris . . . . .	197	sordidalis . . . . .	233
Piloptila . . . . .	204	rhoeusalis . . . . .	231	sounkeana . . . . .	188
Placosaris . . . . .	221	rogatalis . . . . .	197	Spargeta . . . . .	171
plagialis . . . . .	198	rondinosalis . . . . .	233	Spilodes . . . . .	206
Plactrona . . . . .	171	rubriginalis . . . . .	219	Spoladea . . . . .	161
Pleuroptya . . . . .	182	rudis . . . . .	205	stachydalis . . . . .	216
plumbalis . . . . .	162	ruralis . . . . .	167	Stantira . . . . .	211
plumbociliaris . . . . .	216	ruralis . . . . .	186	stellaris . . . . .	169
poltialis . . . . .	190	rutilalis . . . . .	166	Stemorrhages . . . . .	190
Polychorista . . . . .	200	Sabalalis . . . . .	179	Stenochora . . . . .	197
Polycorys . . . . .	182	Sagariphora . . . . .	162	Stenopteryx . . . . .	203
polygona . . . . .	230	salomealis . . . . .	180	stibialis . . . . .	162
Polythlipta . . . . .	195	sambucalis . . . . .	226	sticticalis . . . . .	207
posticalis . . . . .	163	sanguinalis . . . . .	233	stigmatalis . . . . .	215
Pramadea . . . . .	182	sanuginealis . . . . .	230	strenualis . . . . .	225
Prencopogon . . . . .	174	Saroscelis . . . . .	171	striata . . . . .	170
principalis . . . . .	181	satana . . . . .	183	stultalis . . . . .	204
Prionopaltis . . . . .	220	Satanastra . . . . .	159	subcrocealis . . . . .	231
privalis . . . . .	160			subjunctalis . . . . .	173
probalis . . . . .	232			submarginalis . . . . .	192
Prodasynemis . . . . .	212			suffusalis . . . . .	227

Sylepta ... .. 182	triferalis... .. 173	venialis . ... .. 167
Syllythria ... .. 221	tristrialis . ... .. 178	venosalis... .. 204
sylpharis . ... .. 195	Tritaea ... .. 206	venosalis . ... .. 224
Synchromia ... .. 221	tritalis ... .. 217	verbascalis ... .. 214
	Tyspanodes ... .. 170	verbascalis ... .. 216
		verbascata ... .. 216
<b>taiwanalis</b> ... .. 185	<b>Udea</b> ... .. 211	verticalis . ... .. 187
tampiusalis ... .. 177	ultimalis . ... .. 187	verticalis . ... .. 207
Tanaophysa ... .. 200	umbrosa . ... .. 181	vertumnalis ... .. 193
telphusalis ... .. 168	umbrosalis ... .. 207	vicinalis . ... .. 228
terminalis ... .. 214	undalis ... .. 196	virgata ... .. 224
tessellalis . ... .. 237	unicinalis . ... .. 168	virgatalis . ... .. 224
testacea ... .. 215	uniformis . ... .. 200	virginalis . ... .. 233
testulalis . ... .. 203	unigutta ... .. 227	vulgalis ... .. 179
Tetracona . ... .. 162	unipunctata ... .. 234	
tetragonalis ... .. 203	Uresiphita ... .. 210	<b>verburii</b> . ... .. 190
Thliptoceras ... .. 197	usitata ... .. 169	
thyalis ... .. 220	ussurialis . ... .. 220	<b>Zebrodes</b> . ... .. 172
Thysanodesma ... .. 174		zelleri ... .. 184
tincticostellus... .. 210		zelleri ... .. 194
tithonialis ... .. 233	<b>variabilis</b> . ... .. 197	Zinckenia . ... .. 161
Tobata ... .. 190	varialis ... .. 230	zygaenalis ... .. 192
tricolor ... .. 184	Vatica ... .. 171	