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

BY

JINSHICHI SHIBUYA

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* HMPSN. 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[1], 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 fandalis* HBN.)

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

[Jour. Facul. Agr., Hokkaido Imp. Univ., Vol. XXV, Pt. 3, May, 1929]

6. *Botys protensa* sp. n. (= *Udea pandalis* HBN.)
7. *Udea aurorina* sp. n.
8. *Pionea sodalis* sp. n. (= *U. fortica.is* 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 instersalis* 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. *Crocidophora 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,[2] 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,[3] 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 chrysitis* sp. n.
6. *P. unipunctata* sp. n.

In 1885,[4] PRYER recorded *Dichocrocis punctiferalis* GN. and *Margaronia quadrimaculalis* BREM. et GREY as occurring in Japan. In 1889,[5] LEECH

2) Ann. Mag. Nat. Hist., (5) iv.
3) Trans. Ent. Soc. Lond.
4) Trans. Asiat. Soc. Jap., xiii.
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 mandarinalis* 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,[6] 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,[7] 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:

1. *Dichocrocis suzusalis* WLK.
2. *Sylepta pernitescens* SWINH.
3. *S. quadrimaculalis* KLLR.
4. *Thliptoceras variabilis* SWINH.
5. *Maruca testulalis* GEYER
6. *Psara licarsisalis* WLK.
7. *Loxostege verticalis* LINN.
8. *L. pelealis* SCHIFF. et DEN.
9. *Pyrausta damoalis* WLK.

In 1898,[8] 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,[9] 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.
7) Ann. Mag. Nat. Hist., (6) xvi.
8) Proc. Zool. Soc. Lond.
9) Proc. Zool. Soc. Lond.

before that time, they are as follows:

1. *Crocidophora heterogenalis* BREM.
2. *Calamochrous acutellus* EVM.
3. *Udea orbicentralis* CHRIST.
4. *Pyrausta moderatalis* CHRIST.
5. *P. memnialis* WLK.

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

1. *Eurrhyparodes bracteolalis* ZELL.
2. *Agrotera effertalis* WLK.
3. *Phostria crithonalis* WLK.
4. *Lamprosema tristrialis* BREM.
5. *L. indicata* FAER.
6. *Sylepta satana* HERING

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

1. *Bocchoris onychinalis* GN.
2. *B. adipalis* LED.
3. *Phostria noctescens* MOOR.
4. *Lamprosema chrysorycta* MEYR.
5. *L. tampiusalis* WLK.
6. *L. similis* MOOR.
7. *L. pallidinotalis* HMPSN.
8. *Sylepta ruralis* SCOP. (as *Sylepta sabiusalis* WLK.)
9. *S. ultimalis* WLK.
10. *S. deficiens* MOOR.
11. *Oebia undalis* FABR.
12. *Nomophila noctuella* SCHIFF. et DEN.
13. *Psara marginalis* WARR.
14. *Loxostege umbrosalis* WARR.
15. *Diasemia accalis* WLK.
16. *Antigastra catalaunalis* DUP.
17. *Udea albifimbrialis* WLK.
18. *Pyrausta diniasalis* WLK.
19. *P. flavalis* SCHIFF. et DEN.
20. *P. pullatalis* CHRIST.
21. *P. phoenicealis* HBN.
22. *P. sanguinalis* LINN.
23. *P. sikkima* 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,[15] HAMPSON added an unrecorded species *Metasia coniotalis* HMPSN. to the *Pyralid*-fauna of Japan. In the Proc. U. S. Nat. Mus. vol.

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,[16] WILEMAN enumerated the following eleven new species and fifteen unrecorded species:

1. *Agrotera posticalis* sp. n. (=*Agrotera nemoralis* SCOP.)
2. *Pagyda ochrealis* sp. n. (=subsp. of *Pagyda salvalis* WLK.)
3. *Marasmia limbata* sp. n.
4. *Glyphodes albilunalis* sp. n. (=*Bocchoris telphusalis* WLK.)
5. *Phostria munitalis* sp. n.
6. *Lamprosema catenalis* sp. n.
7. *Omphisa plagialis* sp. n.
8. *Udea stigmatalis* sp. n.
9. *Pionea exigualis* sp. n. (=*Pyrausta accolalis* ZELL.)
10. *Pyrausta andrewsalis* sp. n.
11. *Phlyctaenodes ochrealis* sp. n. (=*Pyrausta celatalis* WLK.)
12. *Marasmia vinilialis* WLK.
13. *Lamprosema maculalis* SOUTH
14. *Ceratarcha umbrosa* SWINH.
15. *Margaronia glauculalis* GN.
16. *Polythlipta liquidalis* LEECH
17. *Ischnurges octoguttalis* F. et R.
18. *Evergestis extimalis* SCOP.
19. *Loxostege sticticalis* LINN.
20. *Crocidophora flaviciliata* HMPSN. (as *Circobotys aurimargo* WARR.)
21. *Udea pruinalis* SCHIFF. et DEN.
22. *U. tritalis* CHRIST.
23. *U. thyalis* WLK.
24. *Pyrausta cilialis* HBN.
25. *P. hyalodiscalis* WARR.
26. *P. cespitalis* 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,[17] HAMPSON enumerated two new species *Phlyctaenodes uniformis*, *Pyrausta phoenizonalis* (=*Pyrausta andrewsalis* WLMN.), with an unrecorded species *Pyrausta pervulgalis* HMPSN. from this country.

In 1923,[18] Dr. N. MARUMO recorded *Parudea fimbriata* SWINH. as occurring in Japan. In 1927,[19] 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,[20] 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.

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

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 acuminated ..... (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 .....

*(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 tow-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.

Phalaena 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 caberalis 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. 38 (1891) (*Aripana*); id., l. c. ix,

p. 48 (1893); MEYRICK, Trans. Ent. Soc. Lond. p. 459 (1894); SWINHOE, 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 privalis 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*); SWINHOE & COTES, Cat. Moths of Ind. p. 635 (1889); SWINHOE, 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 aeriferalis 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 aeriferalis* MOOR. are identical with *Pycnarmon lactiferalis* WLK.

Loc. Distr.: Sapporo (MATSUMURA); Hakodate (WHITELY); Nikko (MARIES); 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, Tijd. 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. 396 (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. 0 (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 (1886); 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 (1918); 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).

Odezia 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*; Yokushima.*

*According to Dr. MARUMO.

Gen. Distr.: Africa; India; Ceylon; Sumatra; New Zealand; Hawai; Java; New Irland; New Guinea; Australia; China; Korea; Formosa; Japan.

Genus *Eurrhyparodes* SNELL.

Eurrhyparodes SNELLEN, Tijd. v. Ent. xxiii, p. 215 (1880) ..... type *bracteolalis* ZELL.
Molybdantha 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) (*Molybdantha*); 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, Tijd. 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.
Tetracona MEYRICK, Trans. Ent. Soc. Lond. p. 307 (1887) ..... type *amathealis* WLK.
Sagariphora MEYRICK, l. c. p. 460 (1894)..... type *magnificalis*, HMPSN.
Leucinodella STRAND, Deut. Ent. Zeit. Iris, xxxii (1/2), p. 62 (1918) ..... type *leucostola* HMPSN.

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, Smml. 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 *salvalis* 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. salvalis 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 salvalis 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 LEDERER, 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); LEDERER, Wien. Ent. Mon. vii, p. 381 (1863); MOORE, Lep. Ceyl. iii, p. 281 (1885) (*Cnaphalocrocis*); MEYRICK, Trans. Ent. Soc. Lond. p. 216 (1887); SWINHOE & COTES, 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. 189 (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) (*Asopia*); 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, Tijd. v. Ent. xxxvi, p. 135 (1883); id., Trans. Ent. Soc. Lond. p. 594 (1890).

Botys fasciculatalis 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 *venilialis* WLK.
Dolichosticha MEYRICK, Trans. Ent. Soc. Lond. p. 304 (1884) ... type *venilialis* WLK.
Lasiacme WARREN, Ann. Mag. Nat. Hist. (6) xviii, p. 176 (1896) ... type *latimarginalis* HMPSN.

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. venilialis* 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, Tijd. v. Ent. xxvi, p. 135 (1883) (*Cnaphalocrocis*).

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) praeocc. ..... 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.
Anomosticta 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, Tijd. 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) (*Nausinoë*); 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 (1987); SWINHOE & COTES, l. c. p. 633 (1889).

Lepyrodes astomalis 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 telphusalis* WLK.

Glyphodes ? telphusalis 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 unicinalis PAGENSTECHER, 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. 208 (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 eurycleali 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 Yakohama 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 (1928).

Desmia afflictalis 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. 1298 (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); Kumanohira (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.
Cirrocephala 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 *rutilalis* WLK.
Condega MOORE, Lep. Ceyl. iii, p. 344 (1886) ..... type *obscurata* MOOR.
Charema MOORE, Lep. Atk. p. 218 (1888)..... type *noctescens* MOOR.
Saroscelis MEYRICK, Trans. Ent. Soc. Lond. p. 461 (1894)... type *nicoalis* WLK.
Plectrona SNELLEN, Tijd. v. Ent. xxxviii, p. 142 (1895)..... type *dohrni* SNELL.
Hoplisa 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 outwardly ..... *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 *pandamalis* 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, Tijd. 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 (1885); LEDERER, Wien. Ent. Mon. vii, p. 375 (1863) (*Botys*); PAGENSTECHER, 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 nicippealis 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 *rhoeoalis* 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.
Aplomastix 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 *helianla* 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 *benepictalis* 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* HMPSN.

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) (*Piletocera*); 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) (*Piletocera*); 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 dascyl.usalis WALKER, l. c. xix, p. 1003 (1859).

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

Metasia lilliputalis 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* HMPSN.

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. 98 (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.

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

Asopia vulgalis 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) (*Hedylepta*); WALKER, l. c. xxxiv, p. 1322 (1865); MOORE, Lep. Ceyl. iii, p. 276 (1885); SWINHOE & COTES, Cat. Moths of Ind. p. 641 (1889); SWINHOE, 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); SWINHOE, Cat. Het. Mus. Oxf. ii, p. 483 (1900); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 315 (1896) (*Nacoleia*).

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

Botys moeliusalis WALKER, l. c. p. 703 (1859).

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

Botys reluctalis 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* HMPSN.

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. butyrosa* 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 HMPSN. 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, Tijd. 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 *asialis* GN.
Endocrossis MEYRICK, Trans. Ent. Soc. Lond. p. 515 (1889) ..... type *flavibasalis* 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 *amandо* 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.
Crocidocnemis WARREN, Trans. Ent. Soc. Lond. p. 268 (1889) ... type *pellucida* MEYR.
Pleuroptya MEYRICK, l. c. p. 443 (1890) ..... type *lalteata* FABR.
Loxoscia WARREN, Ann. Mag. Nat. Hist. (6) vi, p. 476 (1890) ... type *scinisalis* 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.
Haliotigris 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.
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.‴ Each wing with a blackish terminal line; some black spots on the basal area; lines and annuli fuscous ..... *S. derogata* FABR.
i.⁗ 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. 1, 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.

Hyalitis 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. 629 (1889) (*Coptobasis*); Snellen, Trans. Ent. Soc. Lond. p. 627 (1890).

Botys cosisalis Walker, Cat. Lep. Het. B. M. xviii, p. 685 (1859).

Ebulea zelleri 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); AURIVILLUS, Ent. Tijd. xviii, p. 167 (1879); HAMPSON, Proc. Zool. Soc. Lond. p. 718 (1898) (*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 (1890); (*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 accipitralis 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. 873 (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 (1890).

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 SWINHOE, 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).

Pleuroptera 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).

Epicorsia iridialis HUEBNER, Verz. Schmett. p. 355 (1826).

Notarcha 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. ruralis* 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) (*Hapalia*); 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) (*Notarcha*); 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) (*Notarcha*); 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 (1890) (*Halitalodes*); 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 (1885).

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

Botys basipunctalis BREMER, Lep. Ost-Sib. p. 68, 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. 228 (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.
Pardomima 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. 458 (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. 580 (1890) (*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.
Eudioptis 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.
Dysaliacta LEDERER, Wien. Ent. Mon. vii, p. 393 (1863) ..... type *negatalis* WLK.
Stemorrhages 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 *pfeifferae* 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 *margaritalis* SNELL.
Sestia SNELLEN, l. c. p. 235 (1875) ..... type *eumeusalis* WLK.
Cadarena MOORE, Lep. Ceyl. iii, p. 335 (1886) ..... type *sinuata* FABR.
Pitana MOORE, Lep. Atk. p. 217 (1888) ..... 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. glauculalis* 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.

Eudioptis 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) (*Phakellura*); 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 & COTES, Cat. Moths of Ind. p. 279 (1889); SNELLEN, Trans. Ent. Soc. Lond. p. 611 (1890); MEYRICK, Trans. Ent. Soc. Lond. p. 297 (1884) (*Phaellura*); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 360 (1896) (*Gyphodes*); id., Proc. Zool. Soc. Lond. p. 738 (1898); MATSUMURA, Ill. Zeit. Ent. Berl. Bd. 6, no. 2, p. 22 (1901); STAUDINGER & REBEL, Cat. Lep. Palaearc. 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*).

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

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

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

Eudioptis 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.

Phakellura 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) (*Cydalima*).

Botys submarginalis WALKER, Cat. Lep. Het. B. M. xxxiv, p. 1414 (1865); SWINHOE, Proc. Zool. Soc. Lond. p. 871 (1885) (*Cydalima*); 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); SWINHOE, 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); SWINHOE, Proc. Zool. Soc. Lond. p. 871 (1885) (*Margaronia*); MOORE, Lep. Ceyl. iii, p. 325, pl. 181, f. 4 (1886); SWINHOE & COTES, Cat. Moths of Ind. p. 618 (1889); SWINHOE, 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, Tijd. 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); SWINHOE & 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); SWINHOE, 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); SWINHOE, l. c. p. 504 (1900); MOORE, Proc. Zool. Soc. Lond. p. 94 (1867), id., l. c. p. 850 (1878) (*Pachyarches*); SWINHOE & COTES, l. c. p. 619 (1889); SWINHOE, Trans. Ent. Soc. Lond. p. 279 (1890).

Margaronia vertumnalis SWINHOE (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); MOORE, 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*); SHIBUYA, Jour. Facul. Agr. Hokkaido Imp. Univ. xxii (1), p. 238, pl. viii, f. 23 (1928).

Glyphodes zelleri LELERER, 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, Tijd. 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-seka', 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, Conchu-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. 389 (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 Pry. 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 SNELLEN, 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.
Prephantis 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).

Pyralis 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 *illisalis* 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 albalis 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.
Aedis 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* GEOTE
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 margaritalis 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).

Pachyzancloides 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); Tobetsu (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 *tuberculalis* LED.
Circobotys 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 mandarinalis LEECH, Entom. xxii, p. 68, pl. 3, f. 14 (1889).

The female type specimen of *B. mandarinalis* 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, Ill. 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* HMPSN.

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. 666 (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) (*Botys*); 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).

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

Recorded first by LEECH from Japan in 1901.

Loc. Distr.: Asahigawa (MATSUMURA); Sapporo (MATSUMURA); Hakodate (LEECH); Yokohama (WILEMAN); Yoshino (WILEMAN); Awa (WILEMAN); Oshima (WILEMAN); Satsuma (WILEMAN).

Gen Distr.: Universal.

Genus *Psara* SNELL.

Psara SNELLEN, Tijd. 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 (1928) (*Psara*).

Botys pharaxalis WALKER, l. c. xviii, p. 725 (1859).
Botys immundalis WALKER, l. c. xxxiv, p. 1448 (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) (*Pachyzancla*); 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 *aeruginalis* HBN.
Emmelia GEYER, Smml. Exot. Schm. v, p. 8, no. 409 (1837)..... type *venustalis* CRAM.
Phlyctaenodes GUENÉE, Delt. et Pyr. p. 173 (1854) ..... type *pustulalis* HBN.

Spilodes 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.
Proternia MEYRICK, Trans. Ent. Soc. Lond. p. 317 (1884) ..... type *philocapna* MEYR.
Metallarcha MEYRICK, l. c. p. 331 (1884) ..... type *calliaspis* MEYR.
Tritaea MEYRICK, l. c. p. 341 (1884) ..... type *affinitalis* LED.
Blepharucha WARREN, Ann. Mag. Nat. Hist. (6) ix, p. 177 (1892)... type *zeide* STOLL
Euctenospila 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. pelealis* SCHIFF. et DEN.
b. Wings with dark markings ..... *L. verticalis* LINN.
b′. Wings dull greyish yellow; without markings ..... *L. umbrosalis* WARR.

94. *Loxostege pelealis* SHIFF. et DEN.

Pyralis pelealis 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. 385 (1854) (*Spilodes*); 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. 80 (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 ? anaxisalis 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. 418 (1895) (*Loxostege*); 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); GUENÉE (part), Delt. et Pyr. p. 386 (1854).

Pyralis limbalis 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);

FABRICIUS, 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. 18, 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*); HEERICH-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 MOTSCHULSKY 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) (*Ebulea*); WALKER, Cat. Lep. Het. B. M. xviii, p. 743 (1859); SWINHOE, Proc. Zool. Soc. Lond. p. 525 (1884); id., l. c. p. 874 (1885); id., l. c. p. 460 (1886); SWINHOE & 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); SWINHOE, 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 pruipennis* BUTL.

Mecyna pruipennis BUTLER, Ann. Mag. Nat. Hist. (5) iv, p. 454 (1879); HAMPSON, 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 *chilonalis* 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 *tranquillalis* LED.
Dicepolia SNELLEN, Tijd. v. Ent. xxxv, p. 158 (1892) ..... type *roscobrunnea* WARR.

103. *Calamochrous acutellus* EVM.

Chilo acutellus EVERSMANN, 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. 488 (1901); MATSUMURA, Cat. Ins. Jap. p. 216 (1905).

Duponchelia cilialis 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); Hakodade (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* Hmpsn.

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 *Hemiscopis* Warr.

Hemiscopis Warren. Ann. Mag. Nat. Hist. (6) iv, p. 475 (1890) ..... type *suffusalis* Wlk.

105. *Hemiscopis cinerea* Warr.

Hemiscopis 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 (Pryer 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.
Hapalia 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. 38 (1860) ..... type *albopedalis* Motsch.
Cindaphia Lederer, Wien. Ent. Mon. vii, p. 438 (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.

Prodasycnemis WARREN, l. c. p. 301 (1892) ..... type *inornata* BUTL.
Minudea WARREN, l. c. p. 440 (1892) ..... type *olivalis* WARR.
Lepidoplaga WARREN, l. c. (6) xvi, p. 475 (1895) ..... type *flavicinctalis* 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 postmedial 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.‴ Fore wing rosy; hind wing grey ..... *U. minnehaha* PRYER
A.⁗ 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 inarnata* 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) (*Prodasycnemis*).

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, pl. 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. 409 (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. 491 (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*); DUPONCHEL, 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.: ?

*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); MEYZNER, 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) (*Ecpyrrhorrhoe*); 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 egentalis CHRISTOPH, Bul. Soc. Nat. Mosc. p. 19 (1881).

Botys plumbocilialis 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 albifimbrialis* WLK.

Botys albifimbrialis 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. 276 (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 (MUTSUMURA); 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.

Pseudebulea 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.

Phalaena 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. 58 (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) (*Mesographe*); 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* HEN.

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) (*Ebulea*); 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 tabutonalis 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); Hakodade (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* SWIMH.

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 *phaenicalis* HBN.
Syllythria HUEBNER, l. c. p. 349 (1826) ..... type *sanguinalis* LINN.
Epicorsia HUEBNER, l. c. p. 355 (1826) ..... type *nyctemeralis* HBN.
Ostrinia HUEBNER, l. c. p. 360 (1826) ..... type *palustralis* HBN.
Anania HUEBNER, l. c. p. 360 (1826) ..... type *funeralis* HBN.
Hercyna TREITSCHKE, Schm. Eur. vii, p. 179 (1829) ..... type *manualis* HBN.
Boreophila DUPONCHEL, Cat. Meth. p. 195 (1831) ..... type *manualis* HBN.
Nascia CURTIS, Brit. Ent. vi, p. 559 (1835) ..... type *cilialis* 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.
Sebunta 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 *luctualis* 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.
Sciorista WARREN, l. c. p. 475 (1890) ..... type *signataliis* WLK.
Micractis WARREN, l. c. (6) ix, p. 294 (1892) ..... type *nubilalis* HBN.
Glauconoë WARREN, l. c. p. 296 (1892) ..... type *deductalis* WLK.
Diacme WARREN, l. c. p. 389 (1892) ..... type *phyllisalis* WLK.
Niphograpta WARREN, l. c. p. 390 (1892) ..... type *albiguttalis* WARR.
Cosmocreon WARREN, l. c. p. 433 (1892) ..... type *albiceralis* 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.''' Wings yellowish ..... (j–j')
A.'''' Wings purplish-crimson; basal area of the fore wing ochreous ..... (s–s')
A.''''' 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. cilialis* HBN.
b.' Wings with each the postmedial line highly excurved between veins 5 and 2 ..... *P. coelesalis* 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. nubilalis* 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. discimaculalis* HMPSN.
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 broak 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* HMPSN.

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 cilialis* HBN.

Pyralis cilialis HUEBNER, Smml. Eur. Schmett. Pyr. p. 24, pl. 18, 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) (*Hapalia*); 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* HMPSN.

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 (TAKAMUKU); 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 (1859) (*Pyrausta*); STAUDINGER & REBEL, Cat. Lep. Palaearc. ii, p. 64 (1901).

Pyralis cineralis HUEBNER, 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 fimbrialis 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); HUEBNER, Smml. Eur. Schmett. Pyr. p. 21, pl. 13, f. 81 (1796); id., Verz. Schmett. p. 359 (1826) (*Phlyctaenia*); 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) (*Ebulea*); 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* HMPSN.

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 WLMN. 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) (*Ennychia*); 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).

Ennychia 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.

Opsibotys 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.

Pyralis 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); HUEBNER, Smml. Eur. Schmett. Pyr. p. 24, pl. 11, f. 69 (1796); id., Verz. Schmett. p. 355 (1826) (*Hapalia*); TREITSCHKE, 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 lutealis DUPONCHEL, Hist. Nat. Lep. Fr. viii (2), p. 331, pl. 233, f. 1 (var.); GUENÉE, l. c. p. 355 (1854).

Botys citralis 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 gracilis 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* HMPSN. 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) (*Hapalia*).

Botys varialis BREMER, Lep. Ost-Sib. p. 69, pl. 6, f. 9 (1864); 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).

Hapalia kasmirica MOORE, Lep. Atk. p. 222, pl. 7, f. 28 (1888); SWINHOE & COTES, l. c. p. 600 (1889).

Micractis sanguinealis WARREN, 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. sanguineatis 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); Satsuma (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 (MARIES); 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 LECCH 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 phoeniccalis* 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 ? coecilialis 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); SWINHOE, Proc. Zool. Soc. Lond. p. 457 (1886); SWINHOE & COTES, Cat. Moths of Ind. p. 642 (1889).

Rhodaria concatenalis WALKER, l. c. p. 1284 (1865); MOORE, Proc. Zool. Soc. Lond. p. 90 (1867); SWINHOE & 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); SCHRANK, 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); BUTLER, Ann. Mag. Nat. Hist. (5) ix, p. 210 (1882); WARREN, Proc. Zool. Soc. Lond. p. 334 (1888); SWINHOE & COTES, Cat. Moths of Ind. p. 643 (1889).

Phalaena decipicata 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*).

Pirausta 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 (Pyralis) 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. 644 (1847); MEYRICK, Brit. Lep. p. 413 (1895); HAMPSON, Faun. Brit. Ind. Moths, iv, p. 432 (1896); 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. 368 (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 haematalis 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 virginalis 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 contigualis 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 Hokkaiko 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* BUTL.

Ennychia astrifera BUTLER, 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. 58, 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 punicealis 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 prophyraiis HUEBNER, Smml. Eur. Schmett. Pyr. pl. 6, f. 36 (1826); 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 sikkima* MOOR.

Porphyritis sikkima MOORE, Lep. Atk. p. 207 (1888); SWINHOE & COTES, 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 BUTLER, Ill. Typ. Sp. Het. B M. vii, p. 93, pl. 184, f. 16 (1889).

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 GUENÉE, 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.

POSTSCRIPT

In this paper I have not dealt with *Nomis tessellalis* MOTSCH.[1], *Botys lineolalis* MOTSCH.[2] and *Lamprosema dairalis* WLK.[3] 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.[4] (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[5] 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 varietiy under forty-three genera are known to us as occurring in Japan up to the present time.

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).

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