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THE *GALLERIINAE* OF JAPAN (*LEPID.*)

By

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The *Galleriinae*, a subfamily of *Pyrallidae* is separated from *Crambinae* by the maxillary palpi which are not triangularly scaled. The fore wing with vein 7 present. This subfamily is thus also separated from the *Anerastiinae* and *Phycitinae*.

So far as my investigations go, one hundred sixty one species under forty nine genera belonging to this subfamily have hitherto been described in the world, of these, thirteen species under eight genera are known as occurring in Japan.

In 1860, MOTSCHULSKY in *Etud. Entom.* enumerated *Aphomia colonella* L. and *Lamoria anella* SCHIFF. et DEN. as existing in Japan; this is, as far as I am aware, the first systematic account of the *Galleriinae* of this country. The former of the above mentioned two species, however, had already become a synonym of *Aphomia sociella* L. In the *Hor. Soc. Ross. Ent.* vol. xiii, 1877, ZELLER described a new species *Aphomia guralis* ZELL. from Japan, which was originally placed under the genus *Melissoblaptēs*.

In 1879,¹⁾ BUTLER established a new genus *Paralipsa* with *P. modesta* BUTL. (sp. nov.) taken in Yokohama as the genotype, but the genus is now treated as a synonym of genus *Aphomia*, and *P. modesta* BUTL. is also a synonym of *Aphomia guralis* ZELL. In the *Ill. Typ. Sp. Het. B. M.* vol. iii, 1879, BUTLER described one more new species *Melissoblaptēs tenebrosus* BUTL. from this country, which had also become a synonym of *Aphomia guralis* ZELL.

In 1900,²⁾ Prof. S. MATSUMURA recorded *Galleria mellonella* L., which had not been reported as occurring in Japan at that time. In the *Mémoires sur les Lépidoptères*, Romanoff, vol. viii, 1901, RAGONOT described two new species from this country, namely *Tirathaba irrufatella* RAG. and *Aclroia obscurevitella* RAG. In the same publication, HAMPSON enumerated *Lamoria inostentalis* Wlk. as existing also in Japan, which had not previously been recorded from this country at that time.

1) *Ann. Mag. Nat. Hist.* (5) iv.

2) *Ill. Zeit. Ent. Berl.* (5) 24.

In 1901,¹⁾ LEECH recorded the following two species from Japan:

1. *Melissoblaptēs bipunctanus* LEECH (nec CURT.)
= *Aphomia sapozhnikovi* KRUL.
2. *Lamoria anella* LEECH (nec SCHIFF. et DEN.)
= *Lamoria ruficostella* RAG.

In 1911,²⁾ WILEMAN described *Hypsotropa bipunctella* WLMN. from Japan as a new species belonging to the subfamily *Anerastinae*, this species, however, was transferred from that subfamily to the *Galleriinae* by HAMPSON in 1917,³⁾ owing to the fore wing of this species having vein 7 present, and he sunk this species under *Mampava bipunctella* RAG. as a synonym. In the Novit. Zool. vol. xxiv, 1917, HAMPSON described one more new species *Cathayia obliquella* HMPNS., the type specimen of which was taken at Fushiki.

In the same year, Prof. S. MATSUMURA, in this Oyō-konchūgaku (Applied Entomology) enumerated *Achroia grisella* FABR. which had so far as my studies go, no one recorded as occurring in this country at that time.

I have in this paper dealt with also *Corcyra cephalonica* STTN. which was first recorded as existing in Japan by S. TAKAHASHI in 1928,⁴⁾ and I was presented by him a single female specimen of this species which was taken at Kagoshima.

Key to the Genera

- | | | |
|-----|---|-----------------|
| A. | Hind wing with vein 4 absent | a-a' |
| A'. | Hind wing with vein 4 present | d-d' |
| a. | Fore wing with vein 4 absent | b-b' |
| a'. | Fore wing with vein 4 present | c-c' |
| b. | Fore wing with vein 9 absent | <i>Mampava</i> |
| b'. | Fore wing with vein 9 present | <i>Corcyra</i> |
| c. | Fore wing with vein 9 absent | <i>Achroia</i> |
| c'. | Fore wing with vein 9 present | e-e' |
| d. | Fore wing with vein 10 stalked with 7, 8, 9 | <i>Cathayia</i> |
| d'. | Fore wing with vein 10 from the cell | f-f' |
| e. | Fore wing with vein 7 from 8 beyond 9 | <i>Aphomia</i> |

1) Trans. Ent. Soc. Lond.

2) Trans. Ent. Soc. Lond.

3) Novit. Zool. xxiv.

4) Beikoku-no-Gaichū-to-Kujoyobōhō.

- e'. Fore wing with vein 7 from 8 before 9 *Tirathaba*
 f'. Fore wing with vein 7 from 8 beyond 9 *Galleria*
 f. Fore wing with vein 7 from 8 before 9 *Lamoria*

Genus *Aphomia* HBN.

- Aphomia* HUEBNER, Verz. Schmett. p. 369 (1826)... .. type *sociella* L.
*Melia** CURTIS, Brit. Ent. vi, p. 201 (1829)... .. type *sociella* L.
Melissoblaptes ZELLER, Isis, p. 180 (1839) type *foedella* ZELL.
Bapara WALKER, Cat. Lep. Het. B. M. xxxii, p. 602 (1865) type *obliterosa* Wlk.
Paralipsa BUTLER, Ann. Mag. Nat. Hist. (5) iv, p. 454 (1879) type *guralis* ZELL.

In Japan, three species which belong to this genus as shown in the following key are known.

Key to the Species

- a. Fore wing very narrow; with a single black discoidal dot
 *A. guralis* ZELL.
 a'. Fore wing of moderate width; with two black or fuscous dots before and
 at the end of cell b-b'
 b. Fore wing with a discoidal dot being not paler at the centre; fore wing
 partly suffused with olive-green *A. sociella* L.
 b'. Fore wing with a discoidal dot being paler at the centre; fore wing not
 suffused with olive-green *A. sapozhnikovi* KRUL.

1. *Aphomia guralis* ZELL.

Melissoblaptes guralis ZELLER, Hor. Soc. Ent. Ross. xiii, p. 74, pl. I, f. 26 (♂), pl. II, f. 27 (♀)
 (1877); RAGONOT, Rom. Mém. viii, p. 475 (1901) (*Paralipsa*); HAMPSON,
 Novit. Zool. xxiv, p. 38 (1917) (*Aphomia*).

Paralipsa modesta BUTLER, Ann. Mag. Nat. Hist. (5)iv, p. 455 (1879).

Melissoblaptes tenebrosus BUTLER, Ill. Typ. Sp. Het. B. M. iii, p. 78, pl. 60, f. 1 (1879).

All the type specimens of *guralis* ZELL.,¹⁾ *modesta* BUTL.²⁾ and *tenebrosus* BUTL.³⁾ were collected in Japan.

Loc. Distr.: Yokohama (PRYER, JONAS); Yoshino (WILEMAN); Yamato
 (WILEMAN); Harima (TAKAMUKU); Yanagawa (TAKAMUKU); Hi-
 go (WILEMAN).

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

* *Melia* previously used for a genus of *Crustacea* in 1820 by BILLBERG.

1) Honshu (?), in Coll. Dr. STAUDINGER & BANG Haas, Dresden.

2) Yokohama (PRYER), in Coll. Brit. Mus.

3) Yokohama (JONAS), in Coll. Brit. Mus.

2. *Aphomia sapozhnikovi* KRUL.

Melissoblastes bipunctatus ZELLER, Isis, p. 579 (1848) nec CURT.; HAMPSON, Novit. Zool. xxiv, p. 39 (1917) (*Aphomia*).

Galleria anella ZINCKEN, Germ. Mag. iv, p. 242 (1821) nec SCHIFF. et DEN.; LEECH, Brit. Pyr. p. 110, pl. 13, f. 4 (1886) (*Melissoblastes*).

Melissoblastes bipunctatus CURT. var. *sapozhnikovi* KRULIKOWSKY, Russ. Ent. viii, p. 274 (1909).

This species was first recorded as existing in Japan by LEECH in 1901 as *Melissoblastes bipunctatus* LEECH (nec CURT.). There is a Japanese specimen of this species in the collection of the British Museum, taken at Hakodate by LEECH. Two specimens are in WILEMAN's private collection, taken at Yunokawa and Ishikawa in Hokkaido.

Loc. Distr.: Mt. Daisetsu (MATSUMURA); Sapporo (MATSUMURA); Hakodate (LEECH); Yunokawa (WILEMAN); Ishikawa (WILEMAN).

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

3. *Aphomia sociella* L.

Tinea sociella LINNAEI, Syst. Nat. ed. x, p. 534 (1758); ZELLER, Isis, p. 180 (1839) (*Melissoblastes*); WALKER, Cat. Lep. Het. B. M. xxvii, p. 2 (1863) (*Aphomia*).

Tinea colonella LINNAEI, l. c. p. 534 (1758); ZELLER, l. c. p. 576 (1848) (*Aphomia*); MOTSCHULSKY, Etud. Ent. p. 38 (1860) (*Galleria*).

Tinea tribunella SCHIFFERMÜLLER et DENIS, Syst. Schmett. Wien. p. 319 (1775).

Though MOTSCHULSKY recorded this species from Japan in 1860, RAGONOT, HAMPSON, STAUDINGER and other senior authors, however, did not give Japan as a locality of this species, and I was also unable to obtain any specimen in this country.

Loc. Distr.: Japan (according to MOTSCHULSKY).

Gen. Distr.: Europe; U. S. A.; Japan.

Genus *Galleria* FABR.

Galleria FABRICIUS, Suppl. Ent. Syst. p. 462 (1798)... .. type *mellonella* L.

Cericlepta SODOFFSKY, Bul. Soc. Nat. Mosc. x (6), p. 20 (1837)... .. type *mellonella* L.

Vindama WALKER, Cat. Lep. Het. B. M. xxxv, p. 1706 (1866)... .. type *mellonella* L.

4. *Galleria mellonella* L.

Tinea mellonella LINNAEI, Syst. Nat. ed. x, p. 537 (1758); ZELLER, Isis, p. 720 (1838) (*Galleria*).

Tinea cereana LINNAEI, l. c. ed. xii, p. 874 (1767).

Tinea cereella FABRICIUS, Syst. Ent. p. 655 (1775).

Galleria cerea HAWORTH, Lep. Brit. p. 392 (1811).

Vindama obliquella WALKER, Cat. Lep. Het. B. M. xxxv, p. 1706 (1866).

Galleria austriana FELDER et ROGENHOFER, Reis. Novara, Lep. II (2), pl. 137, f. 7 (1874).

So far as I am aware, this species was first recorded as occurring in Japan by Prof. S. MATSUMURA in 1900*

* Ill. Zeit. Ent. Berl. 5 (24), p. 380 (1900).

Loc. Distr.: Tokyo (HIRAYAMA).
Gen. Distr.: Universal (HAMPSON).

Genus *Lamoria* Wlk.

Lamoria WALKER, Cat. Lep. Het. B. M. xxvii, p. 87 (1863) ... type *adaptella* Wlk.
Maraclea WALKER, l. c. p. 88 (1863) ... type *inostentalis* Wlk.
Tugela RAGONOT, Nouv. Gen. p. 51 (1888) ... type *clathrella* Rag.

Key to the Species

- a. Wings whitish wood-colour *L. inostentalis* Wlk.
 a'. Fore wing greyish suffused with brown b-b'
 b. Fore wing with an antemedial line excurved between costa and dorsum ...
 *L. anella* SCHIFF. et DEN.
 b'. Fore wing with an antemedial line oblique outwardly from costa to median
 nervure and then erect to dorsum *L. ruficostella* Rag.

5. *Lamoria inostentalis* Wlk.

Maraclea inostentalis WALKER, Cat. Lep. Het. B. M. xxvii, p. 88 (1863); HAMPSON, Rom. Mém. viii, p. 436, pl. 53, f. 2 (1901) (*Lamoria*).

Lamoria anella STRAND (nec SCHIFF. et DEN.), Stett. Ent. Zeit. 79 (ii), p. 250 (1919).

This species was first recorded from Japan by HAMPSON in 1901. There are three specimens in the British Museum, and eleven specimens in WILEMAN'S private collection.

Loc. Distr.: Yokohama (MANLEY, WILEMAN); Yoshino (WILEMAN); Kyoto (HIRAYAMA); Iyo (WILEMAN); Kagoshima (WILEMAN); Yakushima (MARUMO).

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

6. *Lamoria anella* SCHIFF. et DEN.

Tinea anella SCHIFFERMÜLLER et DENIS, Syst. Schmett. Wien. p. 135 (1775); DUPONCHEL, Hist. Nat. Lep. Fr. x, p. 261, pl. 282, f. 7 (1836) (*Galleria*); MOTSCHULSKY, Bul. Soc. Nat. Mosc. xxxix (i), p. 196 (1866) (*Melissoptertes*); SWINHOE & COTES, Cat. Moths of Ind. p. 694 (1889) (*Lamoria*).

Tinea sociella HUEBNER (nec LINN.), Smml. Eur. Schmett. Tin. p. 22, f. 24 (1796).

Melia bipunctana CURTIS, Brit. Ent. v, pl. & no. 201 (1828).

In 1866, MOTSCHULSKY recorded this species as occurring in Japan, and STAUDINGER & REBEL* also gave this country as a locality of this species. However, in 1917,** HAMPSON omitted Japan, and also I was unable to obtain any specimen of this species in this country.

* Cat. Lep. Palaearc. ii, p. 2 (1901).

** Novit. Zool. xxiv, p. 51 (1917).

Loc. Distr.: Japan (according to MOTSCHULSKY, STAUDINGER & REBEL).

Gen. Distr.: Europe; Africa; Ceylon; China; Japan.

7. *Lamoria ruficostella* RAG.

Lamoria ruficostella RAGONOT, Nouv. Gen. p. 51 (1888).

Lamoria anella LEECH (nec SCHIFF. et DENIS), Trans. Ent. Soc. Lond. p. 387 (1901).

The Japanese specimen determined and recorded by LEECH as *Lamoria anella* SCHIFF. et DEN. is, so far as my studies go, identical with *Lamoria ruficostella* RAG. which had not been recorded as occurring in Japan at that time.

Loc. Distr.: Sapporo (MATSUMURA); Nikko (ITO); Yoshino (WILEMAN); Nagahama (LEECH); Tsuruga (LEECH); Iyo (WILEMAN); Japan (PRYER).

Gen. Distr.: S. Russia; China; Japan.

Genus *Tirathaba* WLK.

Tirathaba WALKER, Cat. Lep. Het. B. M. xxx, p. 961 (1864) type *mundella* WLK.

Muciella WALKER, l. c. xxxv, p. 1739 (1866) type *mundella* WLK.

8. *Tirathaba irrufatella* RAG.

Tirathaba irrufatella RAGONOT, Rom. Mém. vii, p. 462, pl. 34, f. 26 (1901).

This species was described from Japan, the type specimen of which is now preserved in the Carnegie-Museum, Pittsburgh, U. S. A.

Loc. Distr.: Japan (PRYER).

Gen. Distr.: Japan.

Genus *Achroia* HBN.

Achroia HUEBNER, Verz. Schmett. p. 163 (1822) type *grisella* FABR.

Meliphora GUENÉE, Ann. Soc. Ent. Fr. xiv, p. 308 (1845) non descr. ... type *grisella* FABR.

Vobrix WALKER, Cat. Lep. Het. B. M. xxx, p. 1014 (1864) type *innotata* WLK.

Key to the Species

- a. Fore wing with an excurved dark postmedial line *A. obscurevittella* RAG.
 a'. Fore wing with no postmedial line *A. grisella* FABR.

9. *Achroia obscurevittella* RAG.

Achroia obscurevittella RAGONOT, Rom. Mém. viii, p. 498, pl. 43, f. 24 (1901).

The type specimen was taken from Japan by H. PRYER, and is now in the collection of the Carnegie-Museum, Pittsburgh, U. S. A.

Loc. Distr.: Japan (PRYER):

Gen. Distr.: Japan.

10. *Achroia grisella* FABR.

Tinea grisella FABRICIUS, Ent. Syst. iii (2), p. 289 (1794); ZELLER, Isis, p. 583 (1848) (*Achroia*); MEYRICK, Brit. Lep. p. 384 (1895). (*Meliphora*).

Galleria alvearia FABRICIUS, Suppl. Ent. Syst. p. 463 (1798).

Bombyx cinereola HUEBNER, Smml. Eur. Schm. Bomb. pl. 23, f. 91 (1802).

So far as I am aware, this species was first recorded as occurring in Japan by Prof. S. MATSUMURA in 1917.*

Loc. Distr.: Japan. †

Gen. Distr.: Europe; India; Ceylon; Jamaica; Australia; U. S. A.; Korea; Formosa; Japan.

Genus *Cathayia* HMPSN.

Cathayia HAMPSON, Rom. Mém. viii, p. 451 (1901) ... type *obliquella* HMPSN.

11. *Cathayia obliquella* HMPSN.

Cathayia obliquella HAMPSON, Rom. Mém. viii, p. 452, pl. 51, f. 6 (1901).

This species was described from China, and in 1917,** HAMPSON first recorded as occurring also in Japan. There is a single female specimen in the collection of the British Museum, taken at Fushiki in July, 1886, by LEECH.

Loc. Distr.: Fushiki (LEECH).

Gen. Distr.: C. China; Japan.

Genus *Corcyra* RAG.

Corcyra RAGONOT, Ent. Month. Mag. xxii, p. 23 (1885) ... type *cephalonica* STTN.

Tineopsis DYAR, Insec. Inscit. Mens. i, p. 59 (1913) ... type *cephalonica* STTN.

12. *Corcyra cephalonica* STTN.

Melissoblaetes ? *cephalonica* STANTON, Ent. Month. Mag. ii, p. 172 (1866); RAGONOT, Ent. Month. Mag. xxii, p. 23 (1885) (*Corcyra*).

Melissoblaetes oconomellus MANN, Verh. Zool. Bot.-Gen. Wien, p. 35 (1872).

Tineopsis theobromae DYAR, Insec. Inscit. Mens. i, p. 59 (1913).

At first recorded from this country by S. TAKAHASHI in 1928. We have in the Entomological Museum, Sapporo, a single female specimen which was taken at Kagoshima on the 6th of June, 1928, by S. TAKAHASHI and it was sent to me for identification.

* Oyô-konchûgaku, p. 571.

† According to Prof. S. MATSUMURA.

** Novit. Zool. xxiv, p. 46 (1917).

Loc. Distr.: Tokyo (TAKAHASHI); Kagoshima (TAKAHASHI);

Gen. Distr.: Europe; Asia Minor; India; Ceylon; Java; Brazil; Australia; Formosa; Japan.

Genus *Mampava* RAG.

Mampava RAGONOT, Nouv. Gen. p. 50 (1888) ... type *bipunctella* RAG.

Anerastidia HAMPSON, Rom. Mém. viii, p. 500 (1901) ... type *bipunctella* RAG.

13. *Mampava bipunctella* RAG.

Mampava bipunctella RAGONOT, Nouv. Gen. p. 50 (1888).

Anerastidia albivittella HAMPSON, Rom. Mém. viii, p. 500, pl. 54, f. 22 (1901).

Hypsotropa bipunctella WILEMAN, Trans. Ent. Soc. Lond. p. 356 (1911).

H. bipunctella WLMN. was described from Japan. WILEMAN enumerated "Female type from Yoshino, Yamato, July, 1900. A series of nine female specimens taken at Yoshino, Yamato and Komatsu, Iyo, in July and August, 1896, 1899, 1900", and the specimens I examined in WILEMAN's private collection are as follows:

Yoshino, ♂, 16-viii-1899 (labelled as type).

Yoshino, ♀ ♀, 9-viii-1899 (2 specimens).

Yoshino, ♀ ♀, 31-viii-1899 (3 specimens).

Yoshino, ♀, 20-vii-1900.

Yoshino, ♀, 21-viii-1900.

Yoshino, ♀, 25-viii-1900.

Iyo, ♀, 17-vii-1896.

Loc. Distr.: Yoshino (WILEMAN); Iyo (WILEMAN); Kagoshima (TAKAHASHI).

Gen. Distr.: Borneo; India; Japan.

摘 要

螟蛾科中蜂蜜蛾亞科に屬するもので、著者が今日まで研究せる所によれば、總計四十九屬、百六十一種が世界の學界に紹介されてゐるが此の内、日本本土産のものは僅かに十三種にして、八屬中に抱括せしめられてゐる。本篇は即ち是等八屬十三種を取扱つた日本本土産蜂蜜蛾亞科の分類學的研究である。