





MOTHS FROM SIAM

THE
JOURNAL
OF THE
Natural History Society of Siam.

Volume VI.

BANGKOK.

Number 3.

LIST OF THE MOTHS COLLECTED IN SIAM
BY E. J. GODFREY, B. Sc., F. E. S.
with descriptions of new species.

By W. H. T. TAMS.

Including descriptions of 3 new genera and 2 new species.

By SIR G. F. HAMPSON, BART.

With Plate 17.

(Published by permission of the Trustees of the British Museum).

The majority of the moths dealt with in this list were collected by Mr. E. J. Godfrey, but a few are included which were taken by H. R. H. the late Prince of Chumporn and by Mr. W. A. Graham, while several were obtained by Major C. H. Stockley on a trip from Burma through Siam.

As several descriptions by Sir George Hampson existed in manuscript at the British Museum (Natural History), they have been utilised, with the permission of the Trustees, in this paper, acknowledgment being made at the end of each description.

The previously unknown males of two species are also described herein.

A large proportion of the collection, including the types, has been kindly presented to the British Museum by Mr. Godfrey.

As far as can be judged from this collection the majority of the species are those found also in Tenasserim and Singapore, those being the two localities in this region from which enough material exists in the British Museum collection to enable any comparison to be made. As might be expected, many of the species also occur in French Indo-China. It is evident that these regions will amply repay exhaustive collecting, and that there is also a wide scope for anyone who will undertake the working out of the life histories of any moths found in the Indo-Malayan region. To give an example

of one of the many problems which await solution, the case may be pointed out of a curious moth, which, however, does not appear in this collection, but which almost certainly occurs in Siam, viz., *Iontha umbrina* Doubleday. The male only of this moth is known. Colonel Swinhoe has described another moth, *Platyja rufiscripta*, which up to the present is only known in the female sex. In spite of the remarkable specialisation of *umbrina*, as a result of which it has been placed in a separate genus, and which makes it appear superficially so unlike *rufiscripta*, these two species seem to be very closely related, so much so, in fact, that they may prove to be male and female of the same species. Here then is an interesting problem for some keen entomologist to investigate.

It may be useful to students to include here one or two notes on structural terminology. Although it has been disputed it appears that the term "tegula" was originally applied to the wing-base covers (see Kirby and Spence), and that the collar tippets were called "patagia". Later the application of these terms seems to have been reversed. It is a great hindrance to serious workers to find themselves constantly confronted by such difficulties as the misapplication of terms. In the *Hymenoptera* the term *tegulae* is still used for the wing-base covers, and there seems to be no adequate reason for using this term for a different structure in the *Lepidoptera*. In this paper the shoulder lappets or wing-base covers are termed *tegulae*, and the collar tippets *patagia*.

The system of terminology adopted here for the wing-veins is that proposed by Comstock and Needham, and as Sir George Hampson in his descriptions has used the British system, the comparison between the two is given below.

British.	1a	1b	1c	2	3	4	5	6	7	8	9	10	11	12	(Costa)
C. & N.	A ₃	A ₂	A ₁	Cu ₂	Cu ₁	M ₃	M ₂	M ₁	R ₅	R ₄	R ₃	R ₂	R ₁	Sc	C

In the Comstock and Needham system A=Anal, Cu=Cubitus, M=Media, R=Radius, Sc=Subcosta, C=Costa. As the term Anal is used it might be more consistent to use the terms Cubital, Medial, Radial, Subcostal and Costal instead of Cubitus, etc.

It will be noted that in the descriptions of the fore wing

of some of the *Noctuidae*, the term "the anal vein" is used. This refers to vein A₂, which in this family is usually forked at the base.

In the course of the paper the following localities are referred to :—

IN CENTRAL SIAM :—Bangkok and Ban Phaji.

IN EASTERN SIAM :—Pak Jong and Muak Lek, villages situated on the line to Korat where it crosses the Dong Rek range.

IN SOUTH EASTERN SIAM :—Sriracha, a fishing village on the eastern side of the Gulf of Siam about 40 miles from the mouth of the Chao Phya river.

Koh Si Chang, an island lying off Sriracha.

Nong Yai Boo, Hup Bon, Nong Khai Ploi and Ban Dan, hamlets or forest posts in the Sriracha forest.

IN NORTHERN SIAM :—The Me Tharn, the Me Chow, the Me Lem, the Me Sai Song and the Me Lam Pong, small tributaries of the Me Song which drains the Me Song forest, situated some 26 miles due north of Prae.

IN PENINSULAR SIAM :—Chumporn, Paknam Langsuan and Khanduli, in the Province of Chumporn.

Bangnara (Naradhipas) and Patani, in the Province of Patani.

The above localities are all in Siam, the zoo-geographical divisions used being those proposed by Mr. C. Boden Kloss in this Journal (Vol. I, p. 250).

In addition to these, the following localities, not in Siam, are also mentioned :—Pak Mat, Ban Nahan, Ban Manao and Ban Na Sao on the Mekong river in French Laos.

Kawkoreik (Kawkorit), the Thaungyin river and the Taok plateau on the Burmo-Siamese frontier.

Moths obtained in these localities are included in the present list.

SYNTOMIDAE.

1. AMATA SPERBIUS (Fabr.).

Zygaena sperbius Fabr., Mant. Ins. ii, p. 103 (1787).
♂ Chumporn, 8.5.16.

2. ERESSA CONFINIS (Walk.).

Glauconis confinis Walk., List Lep. Ins. B. M. i, p. 149 (1854).
♂ Bangkok.

3. EUCHROMIA ELEGANTISSIMA (Wllgrn.).

Charidea elegantissima Wllgrn., Eugenies Resa, p. 360 (1861).
2 ♂♂, 2 ♀♀ Klong Sam; Bangkok, 8.2.14.

ARCTIIDAE.

LITHOSHINAE.

4. CYANA DUDGEONI (Hmpsn.).

Chionaema dudgeoni Hmpsn., Tr. Ent. Soc. Lond. 1895, p. 293.
♀ Pak Jong, E. Siam, 5.1.15, in open jungle.

5. SICCIA SORDIDA (Butl.).

Aemene sordida Butl., Tr. Ent. Soc. Lond. 1877, p. 372.
♂ Bangkok, 20.1.16.

6. ASURA OBSOLETA (Moore).

Lycene obsoleta Moore, Pr. Zool. Soc. Lond. 1878, p. 32, pl. 3, fig. 7.
♀ Sriracha, 14.4.14.

7. MILTOCHRISTA DELICIA (Swinh.).

Barsine delicia Swinh., Tr. Ent. Soc. Lond. 1891, p. 477, pl. 19,
fig. 12.
♀ Pak Jong, 31.12.15, in jungle path.

ARCTHINAE.

8. SPILOSOMA UMMERA Swinh.

Pl. 17, fig. 2.

Spilosoma ummera Swinh. ♀, Pr. Zool. Soc. Lond. 1889, p. 405,
pl. 43, fig. 1.

♂. Palpi blackish, 1st and 2nd segments orange-yellow beneath, 3rd segment sepia tipped; antennal shaft blackish, pectinations burnt umber; frons below and at sides blackish-brown, from middle to vertex of head buff-yellow; thorax buff, inclined to buff-yellow posteriorly; abdomen orange-yellow. Pectus buff-yellow, sepia in front; basal two-thirds of femora above orange-yellow, distal third sepia above, beneath buff; fore and mid tibiae sepia above, buff beneath; hind tibiae buff, apex above and spurs sepia; tarsi sepia; abdomen beneath buff. Fore wing buff; a blackish dot at base; an antemedial spot on costa, an inwardly oblique wood-brown antemedial shade below cell, terminating in a blackish dot

just above anal vein; a blackish dot in upper angle of cell; a blackish postmedial spot on costa, continued as an obscure wood-brown postmedial line strongly out-curved (convexity terminad) between costa and vein Cu₁, inwardly sharply oblique to Cu₂, then less oblique to inner margin, accentuated by two minute blackish dashes on each side of vein Cu₁, two larger ones on each side of Cu₂, and two blackish spots on each side of anal vein, the one near the inner margin being the larger; 5 blackish subterminal dots, one on each side of vein M₁, the lower elongate, one on each side of M₃, and one above Cu₁; fringe buff, paler tipped. Hind wing orange-yellow; a diffuse blackish spot at upper angle of cell; 4 subterminal spots near the tornus, one above Cu₂, a larger one below it and slightly basad, and two small ones, one on each side of vein A₂, near the termen; fringe yellowish-white. Underside of fore wing buff, shaded from base to end of cell and below it to inner margin and tornus with pale orange-yellow; retinaculum tipped with blackish on the inner side; traces representing all the blackish markings shown on the upper side; a large blackish triangular spot at end of cell in upper angle, reaching nearly to lower angle; two additional triangular spots, one in the angle between the stalk of R₃ - R₄ and R₅, the other an inverted isosceles triangle with its base on R₅, near the junction of R₅ with R₃ - R₄, and its apex on M₁. Underside of hind wing buff, shaded between A₂ and inner margin with pale orange-yellow, the blackish markings and fringe as on upper side. Exp. 37 mm.

Neallotype ♂: Bangkok, 16.2.16, at light.

The ♀ type comes from Burma, and there is with it in the British Museum another ♀ from Burma. These specimens have been placed as *S. punctata* Moore by Sir George Hampson, from the ♀ ♀ of which they clearly differ. I had decided that it would be necessary to describe the above ♂ as a new species, when I realised that *punctata* Moore as arranged in the British Museum consisted of two species, and on further investigation I satisfied myself that the Siamese ♂ was *ummera* Swinh. In the ♂ genitalia of *punctata* the claspers are bifurcate, in *ummera* they are not so.

9. SPILOSOMA STRIGATULA (Walk.).

Arctia strigatula Walk., List Lep. Ins. B. M. iii, p. 613 (1855).
♂ Bangkok, 24.10.19, at light.

10. AMSACTA LACTINEA (Cram.).

Phalaena Bombyx lactinea Cram., Pap. Exot. ii, p. 58 & index,
pl. 133, fig. D (1777).
♂ Chumporn, 6.1.16 (H. R. H. the Prince of Chumporn).

11. CREATONOTUS GANGIS (Linn.).

Phaluena gangis Linn., Amoen. Acad. vi, p. 410 (1763).
2 ♂♂, 1 ♀ Bangkok, 10.16.2.14, 28.1.16.

12. CREATONOTUS TRANSIENS (Walk.).

Spilosoma transiens Walk., List Lep. Ins. B.M. iii, p. 675 (1855).
3 ♀♀. Chumporn, 7.1.16 (H. R. H. the Prince of Chumporn).
Me Song forest, Prae, N. Siam, 20.4.18. Ban Nahan, Mekong R., February 1920.

13. PERICALLIA TRIPARTITA (Walk.).

Aloa tripartita Walk., List Lep. Ins. B. M. iii, p. 706 (1855).
♂ Muak Lek, E. Siam, 10.7.14, in open jungle.

14. PERICALLIA PICTA (Walk.).

Deiopeia picta Walk., List Lep. Ins. B. M. xxxi, p. 263 (1864).
♂ Me Song forest, Prae, N. Siam, April 1918.

15. UTETHEISA PULCHELLA (Linn.).

Phalaena Tinea pulchella Linn., Syst. Nat. ed. x, p. 534 (1758).
3 ♀♀ Sriracha, S. E. Siam, 13.14.4.14, at light.

16. RHODOGASTRIA ASTREUS (Drury).

Sphinx astreus Drury, Ill. Exot. Ins. ii, index & p. 49, pl. 28, fig. 4 (1773).
♀ Pak Jong, E. Siam, 4.1.15. in jungle path.

17. BAROA VATALA Swinh.

Baroa vatala Swinh., A. M. N. H. (6) xiv, p. 436 (1894); Tr. Ent. Soc. Lond. 1895, p. 25, pl. 1, fig. 18.
♀ Me Tharn, April 1918.

AGARISTIDAE.

18. EUSEMIA NIPALENSIS Butl.

Eusemia nipalensis Butl., A. M. N. H. (4) xv, p. 140 (1875).
2 ♀♀ Hup Bon, S. E. Siam, 3.5.14, in open jungle.

19. EUSEMIA ADULATRIX Koll.

Eusemia adulatrix Koll., Hügel's Kaschmir iv, p. 464, pl. 20, fig. 1 (1844).
4 ♂♂ Me Song forest, Prae, N. Siam, 17.4.16, in open jungle.

20. SCROBIGERA AMATRIX (Westw.).

Eusemia amatrix Westw., Cab. Or. Ent. p. 68, pl. 33, fig. 4 (1848).
♂ Me Tharn, April 1918.

21. SCROBIGERA ALBOMARGINATA (Moore).

Eusemia albomarginata Moore, Pr. Zool. Soc. Lond. 1872, p. 569.

♂ Me Song, 23.4.16, in open jungle.

♀ Sriracha, 20.4.15, in thick jungle.

22. MIMEUSEMIA POSTICA (Walk.).

Aegocera postica Walk., Journ. Linn. Soc. Lond. (Zool.) vi, p. 86 (1862).

♂ Nong Khai Ploi, S. E. Siam, 1.5.14.

NOCTUIDAE.

HADENINAE.

23. ELUSA CYATHICORNIS (Walk.).

Seria cyathicornis Walk., Journ. Linn. Soc. Lond. (Zool.) vi, p. 194 (1862).

♂ Pak Jong, 2.1.16, at light.

24. BRITHYS CRINI (Fabr.).

Bombyx crini Fabr., Syst. Ent. p. 587 (1775).

♂ Bangkok.

25. CIRPHIS FORMOSANA (Butl.).

Aletia formosana Butl., Pr. Zool. Soc. Lond. 1880, p. 675.

♀ Bangkok, 27.1.16.

26. CIRPHIS IRREGULARIS (Walk.).

Nonagria ? irregularis Walk., List Lep. Ins. B. M. xi, p. 712 (1857).

♂ Bangkok, 8.1.16, at light.

27. CIRPHIS UNIPUNCTA (Haw.).

Noctua unipuncta Haw., Lep. Brit. p. 174 (1810).

♂ Pak Jong, 1.1.15.

28. BOROLIA VENALBA (Moore).

Leucania venalba Moore, Pr. Zool. Soc. Lond. 1867, p. 48.

4 ♂♂, 1 ♀ Bangkok, 8.1.16, at light.

ACRONYCTINAE.

29. ERIOPUS AETHIOPS (Butl.).

Callopistria aethiops Butl., A. M. N. H. (5) i, p. 200 (1878).

♀ Bangkok, 22.2.16, at light.

30. PRODENIA LITURA (Fabr.).

Noctua litura Fabr., Syst. Ent. p. 601 (1775).

4 ♂♂, 4 ♀♀ Bangkok, 13.1.15, 9.3.16, 27.9.19, 2.11.19, at light.

31. SPODOPTERA PECTEN Guen.

Spodoptera pecten Guen., Noct. i, p. 155 (1852).

4 ♂♂, 2 ♀♀ Bangkok, 8.6.15, 25.1.16, 28.1.16, 8.4.16, 5.11.19, at light.

32. SPODOPTERA MAURITIA (Boisd.).

Hadena mauritia Boisd., Faun. ent. Madag. Lep. p. 92, pl. 13, fig. 9 (1833).

8 ♂♂, 7 ♀♀ Bangkok, January, February 1916, at light.

33. PERIGEA CAPENSIS (Guen.).

Apamea capensis Guen., Noct. i, p. 213 (1852).

3 ♂♂, 1 ♀ Bangkok, 29.1.15, 16.1.16, 25.2.16, 27.10.19, at light.

34. CALLYNA MONOLEUCA Walk.

Callyna monoleuca Walk., List Lep. Ins. B. M. xv, p. 1667 (1858).
♂ Bangkok, 27.9.19, at light.

35. SARBANISSA VENOSA (Moore).

Seudyra venosa Moore, Pr. Zool. Soc. Lond. 1879, p. 389.
♀ Bangkok, 7.2.14, at light.

36. SARBANISSA ALBIFASCIA (Walk.).

Catocala albifascia Walk., List Lep. Ins. B. M. xxxiii, p. 933 (1865).
♀ Me Song forest, Prae, N. Siam, 21.4.16, at light.

ERASTRIINAE.

37. CORGATHA IMPLEXATA (Walk.).

Palara implexata Walk., List Lep. Ins. B. M. xxiv, p. 1090 (1862).
♀ Bangkok, 27.1.16.

38. AMYNA PUNCTUM (Fabr.).

Noctua punctum Fabr., Ent. Syst. iii, 2, p. 34 (1794).

2 ♂♂ Bangkok, 16.9.19, at light.

3 ♂♂ Sriracha, S. E. Siam, April 1914, in open clearing.

39. TARACHE CROCATA (Guen.).

Acontia crocata Guen., Noct. ii, p. 218 (1852).

♀ Chumporn, 7.1.14.

EUTELIINAE.

40. CHLUMETIA TRANSVERSA (Walk.).

Nachaba transversa Walk., List Lep. Ins. B. M. xxvii, p. 114 (1863).
♂ Bangkok, 14.1.16.

41. PHLEGETONIA DELATRIX (Guen.).

Penicillaria delatrix Guen., Noct. ii, p. 304 (1852).
♀ Bangkok, 16.2.16, at light.

42. ANUGA CONSTRICTA Guen.

Anuga constricta Guen., Noct. ii, p. 308 (1852).
2 ♂♂, 2 ♀♀ Bangkok, November 1919, at light.

STICTOPTERINAE.

43. ODONTODES ALEUCA Guen.

Odontodes aleuca Guen., Noct. iii, p. 51 (1852).
2 ♂♂, 1 ♀ Bangkok, 16.5.14, 6.2.16, 8.3.16, at light.

44. STICTOPTERA DESCRIBENS (Walk.).

Aegilia describens Walk., List Lep. Ins. B.M. xiii, p. 1139 (1857).
♂ Bangkok, 2.11.19.

45. STICTOPTERA SUBOBliqua (Walk.).

Steiria subobliqua Walk., List Lep. Ins. B.M. xiii, p. 1136 (1857).
♂ Bangkok, 31.10.19, at light.

SARROTHRIPINAE.

46. LOPHOTHRIPA VITEA (Swinh.).

Selepa vitea Swinh., Pr. Zool. Soc. Lond. 1885, p. 460, pl. 27, fig. 17.
♂ Bangkok, 4.11.19, at light.

47. LABANDA SEMIPARS (Walk.).

Bryophila semipars Walk., List Lep. Ins. B. M. xv, p. 1647 (1858).
♂, ♀ Sriracha, 7.4.14, at light.

48. BEANA NITIDA sp. n.

Pl. 17, fig. 17.

♂. Palpi: 1st segment buff, with a few sepia scales on outer side; 2nd segment buff, sepia above and on outer side; 3rd segment sepia, with a few buff scales. Antennae with proximal half buff banded with sepia, the distal half sepia. Head, thorax and abdomen pinkish-buff, with a few scattered sepia scales on patagia, tegulae and thorax, and a sepia patch near the end of the abdomen; anal

tuft sepia above; pectus, legs and underside of abdomen pinkish-buff; tarsal segments sepia above, tipped with pinkish-buff. Fore wing glossy, pale pink; basal third sepia with a few pinkish-buff scales, the oblique edge of the sepia patch being perpendicular to the anal vein; postmedial line sepia, strongly excurved to middle of vein M_1 , where it is interrupted by the main pale pink area, which extends terminad between veins M_1 and Cu_1 , leaving a dark patch at apex, and another at tornus, the latter also limited by the continuation of the postmedial line from Cu_1 to inner margin, parallel with termen; at the apical patch the postmedial on outer side is narrowly edged with white, followed by a buff area, mixed with sepia and white near costa, before the incurved sepia subterminal line, which curves terminad to just below vein M_1 , is lost between veins M_1 and Cu_1 , and continues brokenly from Cu_1 to inner margin, parallel with termen; the dark patch at tornus is brownish-buff; fringe worn off. Hind wing light sepia, lighter towards base, glossy; fringe greyish-brown. Underside pinkish-buff, irrorated with greyish-brown, fore and hind wings with sepia postmedial and subterminal lines. Exp. 34 mm.

Holotype ♂ : Sriracha, S. E. Siam, 10.4.16.

I have placed this species in *Beana* (*Sarrothripinae*), as there is a suspicion of raised scales in the cell; the wings are rather worn, and the raised scales may have been rubbed off.

WESTERMANNIINAE.

49. CAREA REPANDENS (Walk.).

Chora repandens Walk., Journ. Linn. Soc. Lond. (Zool.) vi, p. 188 (1862).

♀ Patani (W. A. Graham); ♂ Bangkok.

50. MAURILIA ICONICA (Walk.).

Anomis iconica Walk., List Lep. Ins. B.M. xiii, p. 992 (1857).

♂ Bangkok, 16.7.4, at light.

51. WESTERMANNIA ELLIPTICA Bryk.

Westermannia elliptica Bryk., Int. Ent. Zeit. vii, p. 217 (1913).

Westermannia obscura Wileman, Entom. xlvii, p. 169 (1914).

♂ Sriracha, S.E. Siam, 8.4.14, in jungle clearing.

52. XANTHODES TRANSVERSA Guen.

Xanthodes transversa Guen., Noct. ii, p. 211, pl. 10, fig. 5 (1852).

2 ♀ ♀ Pak Jong, E. Siam, 4.1.16, at light. ♀ Me Song forest, Prae, N. Siam, 15.4.16, at light.

53. XANTHODES INTERSEPTA Guen.

Xanthodes intersepta Guen., Noct. ii, p. 212 (1852).

♂ Nong Yai Boo, S. E. Siam, 7.4.14, in jungle clearing.

CATOCALINAE.

54. AGONISTA HYPOLEUCA (Guen.).

Lygniodes hypoleuca Guen., Noct. iii, p. 125, pl. 16, fig. 5 (1852).

♂ Muak Lek, 10.7.14. 5 ♂♂ Me Tharn, April 1918. ♂ Me Chow, April 1918. ♂ Me Lem, April 1918.

55. EREBUS HIEROGLYPHICA (Drury).

Phalaena hieroglyphica Drury, Ill. Exot. Ins. ii, index & p. 3, pl. 2, fig. 1 (1773).

♂ Sriracha, 7.4.14. ♂, ♀ Me Tharn, April 1918. ♀ Me Chow, April 1918. ♀ Me Lam Pong, April 1918. ♀ Me Sai Song, April 1918. 2 ♀♀ Me Lem, April 1918.

56. EREBUS CAPRIMULGUS (Fabr.).

Noctua caprimulgus Fabr., Syst. Ent. p. 591 (1775).

♂ Me Tharn, April 1918. ♂ Me Sai Song, April 1918. ♀ Koh Si Chang, April 1919.

57. EREBUS MACROPS (Linn.).

Phalaena Attacus macrops Linn., Syst. Nat. ed. xii, (3) App. p. 225 (1768).

2 ♀♀ Sriracha, 15.4.15, 27.4.15, at light.

58. EREBUS CREPUSCULARIS (Linn.).

Phalaena Attacus crepuscularis Linn., Syst. Nat. ed. xii, (1) 2, p. 811 (1767).

2 ♀♀ Sriracha, 6.4.14, and April 1915.

59. ENTOMOGRAMMA FAUTRIX Guen.

Entomogramma fautrix Guen., Noct. iii, p. 204 (1852).

♂ Bangkok, 16.2.14. ♂ Me Lem, ♂ Me Sai Song, ♀ Me Tharn, April 1918.

60. ENMONODIA VESPERTILIO (Fabr.).

Noctua vespertilio Fabr., Mant. Ins. ii, p. 136 (1787).

♂, ♀ Me Song, 1.5.16, 17.4.16. ♂ Me Tharn April 1918.

61. SPEIREDONIA SUFFUMOSA (Guen.).

Spirama suffumosa Guen., Noct. iii, p. 195 (1852).

♂ Sriracha, 7.4.14. 2 ♀♀ Nong Khai Ploi, 26.4.14, 3.5.14.

♀ Hup Bon, 3.5.14. 2 ♂♂ Me Lem, ♂ Me Tharn, ♀ Me Sai Song, April 1918. ♂, 2 ♀♀ Koh Si Chang, April 1919.

62. PHYLLODES CONSOBRINA Westw.

Phyllodes consobrina Westw., Cab. Or. Ent. p. 57, pl. 28, fig. 2 (1848).
♂ Me Tharn, April 1918. ♀ Sriracha, 27.9.14.

63. LAGOPTERA DOTATA (Fabr.).

Noctua dotata Fabr., Ent. Syst. iii, 2, p. 55 (1794).

♀ Sriracha, 27.4.14, at treacle. ♂ Me Tharn, April 1918.
♀ Me Lem, April 1918.

64. ANUA CORONATA (Fabr.).

Noctua coronata Fabr., Syst. Ent. p. 596 (1775).

♂ Hup Bon, 26.4.14. ♀ Sriracha, 7.4.14. 2 ♀♀ Sriracha, 27.4.15, at treacle. ♂, ♀ Me Sai Song, April 1918.

65. ANUA TIRHACA (Cram.).

Phalaena Noctua tirhaca Cram., Pap. Exot. ii, p. 116 & index, pl. 172, fig. E (1777).

♂ Sriracha, 25.4.15, at treacle.

66. ANUA SUBLUTEA B.-Bkr.

Anua sublutea B.-Bkr., Nov. Zool. xiii, p. 259 (1906).

♀ Me Sai Song, April 1918.

67. ANUA TRIPHAENOIDES (Walk.).

Ophioches triphaenoides Walk., List Lep. Ins. B.M. xiv, p. 1358 (1858).

♂ Sriracha, 27.4.15, at treacle.

68. ANUA TUMIDILINEA (Walk.).

Ophiusa tumidilinea Walk., List Lep. Ins. B. M. xiv, p. 1433 (1858).

♂ Sriracha, 27.4.15, at treacle.

69. MELIPODIS DIVERSIPENNIS (Walk.).

Ercheia diversipennis Walk., List Lep. Ins. B.M. xiii, p. 1108 (1857).

2 ♂♂, ♀ Sriracha, 9.4.14, ♀ 13.4.14 (2 at treacle).

70. ACHAEA SERVA (Fabr.).

Noctua serva Fabr., Syst. Ent. p. 593 (1775).

♂ Sriracha, 25.4.15, at treacle. ♀ Nong Khai Ploi, 1.5.14.

71. ACHAEA JANATA (Linn.).

Phalaena Geometra janata Linn., Syst. Nat. ed. x, p. 527 (1758).
♂, 2 ♀♀, Sriracha, 27.4.15, at light and treacle. ♀ Me
Song, 15.4.16. ♀ Koh Si Chang, April 1919.

72. PARALLELIA ILLIBATA (Fabr.).

Noctua illibata Fabr., Syst. Ent. p. 592 (1775).
♂ Sriracha, at treacle.

73. PARALLELIA ONELIA (Guen.).

Naxia onelia Guen., Noct. iii, p. 256 (1852).
♀ Nong Khai Ploi, 1.5.14.

74. PARALLELIA UMBROSA (Walk.).

Ophiusa umbrosa Walk., List Lep. Ins. B. M. xxxiii, p. 968 (1865).
♀ Bangkok, 21.11.19.

75. PARALLELIA JOVIANA (Stoll.).

Phalaena Noctua joviana Stoll., Pap. Exot. iv, p. 237 & index, pl.
399, fig. B (1782).
♀ Nong Khai Ploi, 1.5.14, at treacle.

76. PARALLELIA ABSENTIMACULA (Guen.).

Naxia absentimacula Guen., Noct. iii, p. 255 (1852).
♀ Sriracha, 20.4.15.

77. PARALLELIA FULVOTAENIA (Guen.).

Ophiusa fulvotaenia Guen., Noct. iii, p. 272 (1852).
♀ Bangkok (W. A. Graham).

78. PARALLELIA SENEX (Walk.).

Ophiusa senex Walk., List Lep. Ins. B. M. xv, p. 1832 (1858).
♀ Sriracha, 27.4.15. Resembles a specimen from New
Guinea in the British Museum, labelled *acutissima* B.-Bkr. by Sir
George Hampson, and placed by him as *senex* Walk. These may
prove to be both distinct from *senex*, and to differ from one another.

79. PARALLELIA STUPOSA (Fabr.).

Noctua stuposa Fabr., Ent. Syst. iii, 2, p. 42 (1794).
Phalaena Noctua achatina Cram., Pap. Exot. iii, p. 145 & index,
pl. 273, fig. E (1780) nec Sulzer (1776).
♀ Bangkok, 30.11.14, at light.

80. PARALLELIA CRAMERI (Moore).

Dysgonia crameri Moore, Lep. Ceylon iii, p. 177, pl. 171, fig. 2 (1885).

Phalaena Noctua achatina Cram., Pap. Exot. iii, p. 171 & index, pl. 288, fig. A (1780) nec Sulzer (1776).

♀ Nong Khai Ploi, 30.4.14.

81. PARALLELIA SIMILLIMA (Guen.).

Ophiusa simillima Guen., Noct. iii, p. 266 (1852).

♂ Bangkok, 28.1.16, at light.

82. ATTATHA REGALIS (Moore).

Hypercompa regalis Moore, Pr. Zool. Soc. Lond. 1872, p. 575, pl. 33, fig. 7.

♂ Me Song, 20.4.16. ♀ Me Sai Song, April 1918. 2 ♂♂ Me Tharn, April 1918. 2 ♂♂ Me Lem, April 1918. ♂ (yellow var.) Me Lam Pong, April 1918.

83. GRAMMODOES GEOMETRICA (Fabr.).

Noctua geometrica Fabr., Syst. Ent. p. 559 (1775).

♂, ♀ Bangkok, 26.2.19, 15.9.19.

84. CHALCIOPE HYPPASIA (Cram.).

Phalaena Noctua hyppasia Cram., Pap. Exot. iii, p. 99 & index, pl. 250, fig. E (1779).

♀ Khanduli, Sept. 1918.

85. CHALCIOPE CEPHISE (Cram.).

Phalaena Noctua cephise Cram., Pap. Exot. iii, p. 59 & index, pl. 227, fig. C (1779).

3 ♂♂ Bangkok, 14.2.14, 14.7.14, 23.9.19. ♀ Me Sai Song, April 1918.

86. EUCLIDISEMA MYGDON (Cram.).

Phalaena Noctua mygdon Cram., Pap. Exot. ii, p. 94 & index, pl. 156, fig. G (1777).

♂, ♀ Bangkok, 13.7.14, 27.12.19, at light.

87. HYPÆTRA NOCTUOIDES Guen.

Hypaetra noctuoides Guen., Noct. iii, p. 259 (1852).

♀ Paknam Chumphon, Sept. 1918.

88. MOCIS FRUGALIS (Fabr.).

Noctua frugalis Fabr., Syst. Ent. p. 601 (1775).

2 ♂♂ Bangkok, 7.1.16. ♀ Me Sai Song, April 1918.

89. MOCIS UNDATA (Fabr.).

Noctua undata Fabr., Syst. Ent. p. 600 (1775),

2 ♂♂ Bangkok, 12.12.15 (H. R. H. the Prince of Chumporn),
20.9.19. ♀ Bangkok, 12.9.19. ♂ Me Lem, April 1918. ♂ Paknam
Langsuan, Sept. 1918, at light. ♀ Khanduli, Sept. 1918. ♀ Bangkok
(W. A. Graham).

90. ANISONEURA HYPOCYANA Guen.

Anisoneura hypocycana Guen., Noct. iii, p. 162 (1852).

2 ♀♀ Sriracha, 4.4.14, at treacle. ♀ Me Tharn, April 1918.

♀ Me Chow, April 1918.

91. ANISONEURA INERMIS sp. n.

Pl. 17, fig. 1 ♂, fig. 13 ♀.

♂. Palpi: Outer side 1st and 2nd segments sepia, thickly irrorated with buff, inner side buff; 3rd segment sepia irrorated and tipped with buff. Antennae sepia above, testaceous beneath. Head, thorax and abdomen above sepia mixed with greyish-buff, beneath mainly buff. Fore tibiae sepia, outwardly fringed with greyish-brown hair, buff-tipped and with a buff spot above near middle; fore tarsi sepia, segments buff-tipped; mid and hind legs greyish-brown above, buff beneath, tarsal segments buff-tipped. Fore wing brownish-buff heavily shaded with sepia; a sub-basal blackish line, beginning as a broad blotch on costa, and outwardly curved between costa and cell and obsolescent below cell; a blackish antemedial line, shaded on each side with brownish-buff, strongly dentate from costa to lower edge of cell, along which it is sharply bent outwards for a short distance, then very oblique basad and slightly waved to inner margin; medial line obscure; a whitish spot at upper and lower angles of cell; postmedial line blackish, defined outwardly with brownish-buff, strongly crenulate and dentate inwardly at the veins, outcurved below costa, then parallel with termen and lower part of antemedial; subterminal not well-defined, brownish-buff shaded on each side with sepia, incurved from near apex to vein R₅, then parallel with termen, crenulate and dentate inwardly on the veins, with a marked indentation towards the postmedial at vein M₂; a fine blackish line before the termen, crenulate and dentate outwardly on the veins; a fine blackish terminal line, waved and outlining brownish-buff interneural terminal lunules irrorated with sepia; fringe greyish-brown, with a buff basal line; the spaces between the lines are shaded with sepia and brownish-buff; sepia between postmedial and subterminal, except between veins M₂ and Cu₁, where brownish-buff extends from the subterminal almost to the postmedial, leaving a narrow crenulate strip of sepia. Hind wing coloration as in fore wing; a whitish spot at lower angle of cell; four

parallel dark lines separated by brownish-buff lines, in the medial and postmedial areas, convex from costa to vein Cu₁, then concave, straightening towards the inner margin; an oblique, slightly waved subterminal line from apex towards postmedial, sepia, shaded outwardly with brownish-buff, and followed by a broad shading of sepia, and then one of brownish-buff, which on the upper half of the wing is bordered by the pre-terminal blackish line, and in the lower half by broad sepia shading before the pre-terminal line; a crenulate blackish pre-terminal line, angled outwardly on the veins, succeeded by a brownish-buff terminal area, and a series of interneural terminal lunules, brownish-buff, edged inwardly with sepia; fringe greyish-brown with a buff basal line. Underside; buff; fore wing with an oblique sepia shade from costa to upper angle of cell and along discocellulars; a broad sepia line from middle of costa towards tornus, angled between veins M₂ and M₃, then perpendicular to anal vein; a subterminal sepia shade from subcosta to anal vein, angled between veins R₅ and M₁, then perpendicular to anal vein, twice as broad at subcosta as at anal vein, followed by a strip of buff, pronounced between subcosta and vein M₂, then obsolescent to anal vein; remainder of wing to termen greyish-brown, with traces of a crenulate pre-terminal line, angled inwardly between the veins; traces of a greyish-buff terminal line, with points between the veins; hind wing with a rounded discocellular mark; beyond this a medial sepia shade, oblique from costa to vein M₂, then angled and perpendicular to inner margin; a postmedial sepia shade parallel with the medial shade; a sepia subterminal shade, broad at costa, from just before apex, angled at vein M₂, then parallel with the postmedial; remainder of wing as in fore wing.

The holotype ♂ has the area between the antemedial and postmedial lines in the fore wing thickly irrorated with bluish-white scales, particularly below the cell, with a small patch before the subterminal line between veins M₃ and Cu₁; the postmedial area of the hind wing near the tornus also shows the same peculiarity. This feature occasionally occurs amongst the *Catocalinae*, and also amongst the *Ophiderinae* (*Sypna*, &c.), and it is a little unfortunate that the holotype ♂ should show this variation.

♀. Coloration as in ♂, but postmedial of hind wing more crenulate, and showing buff points between the veins; subterminal line indistinct.

Exp. ♂ 60 mm. ♀ ♀ 60-68 mm.

Holotype ♂ and allotype ♀ Sriracha, S. E. Siam, 27.4.15 at treacle.

Paratype ♂ Me Lam Pong, April 1918.

Paratype ♀ Sriracha, 6.4.14.

A. inermis differs from *A. salebrosa* Guen. in having a rather sordid appearance, contrasting strongly with the rich colouring of the latter. The pattern of *salebrosa*, though actually very much like that of *inermis*, is so shaded that all the markings appear much more oblique. The fine black line before the termen in *inermis* is continuous, whilst in *salebrosa* it is broken into a string of oblique dashes. In the fore wing of *salebrosa*, before the subterminal line and between veins M_2 and Cu_1 , there is a contrasting pale brown patch, which is barely noticeable in *inermis*. In the hind wing the subterminal line is straighter in *salebrosa* than in *inermis*, and is well marked in the ♀. On the underside of the fore wing in *salebrosa*, the buff strip beyond the subterminal sepia shade has the section between veins R_4 and R_5 not continuous with the remainder, but displaced basad, whereas in *inermis* this strip is continuous.

I have placed this species in the Catocaline genus *Anisoneura*, because, after a careful examination I came to the conclusion that it is closely related to *A. salebrosa* Guen. According to Sir George Hampson's key to the subfamilies of the *Noctuidae*, however, it should come in the *Ophiderinae* ("*Noctuinae*"), as the mid tibiae are not spined.

92. PERICYMA CRUEGERI (Butl.).

Homoptera cruegeri Butl., Trans. Ent. Soc. Lond. 1886, p. 411.

♀ Bangkok, 14.2.15, at light.

93. PERICYMA GLAUCINANS (Guen.).

Alamis glauca Guen., Noct. iii, p. 6. (1852).

♂ Me Tharn, April 1918. 2 ♀ ♀ Bangkok, 25.1.16, 27.12.19, at light.

PHYTOMETRINAE.

94. PHYTOMETRA CHALCITES (Borkh.).

Phalaena Noctua chalcites Borkh., Nat. eur. Schmett., p. 774 (1792).

♂ Bangkok, 12.9.19, at light.

OPHIDERINÆ.

95. ERYGIA REFLECTIFASCIA Hmpsn.

Erygia reflectifascia Hmpsn., Ill. Het. viii, p. 85, pl. 146, fig. 18 (1891).

♂ Bangkok, 25.2.16, at light.

96. CADUCA ALBOPUNCTATA (Walk.).

Homoptera albopunctata Walk., List Lep. Ins. B. M. xiii, p. 1968 (1857).

♀ Nong Khai Ploi, S. E. Siam, 10.4.14, at light.

97. POETA QUADRINOTATA (Walk.).

Hynogramma quadrinotata Walk., List Lep. Ins. B. M. xxxiii, p. 893 (1865).

♀ Sriracha, 7.4.14, at light.

98. BAMRA ALBICOLA (Walk.).

Felinia albicola Walk., List Lep. Ins. B. M. xiv, p. 1515 (1858).

♀ Khanduli, Sept. 1918.

99. CATEPHIA LEUCOMELAS (Linn.).

Phalaena Noctua leucomelas Linn., Syst. Nat. ed. x, p. 518 (1758).

♂ Sriracha, S. E. Siam, 10.4.14, at light.

100. NAGIA GODFREYI sp. n.

Pl. 17, fig. 3 ♂, fig. 15 ♀.

♂. Palpi, outer side sepia with a few white scales in front inner side lighter, with more white scales. Antennae sepia. Head and thorax sepia, sparsely irrorated with white, and with a slight purplish gloss. Abdomen yellowish with a broad dorsal stripe, sepia mixed with yellowish-white; a terminal tuft of sepia scales, from within which springs a tuft of orange scales. Pectus in front greyish-brown, behind buff to yellowish-white; abdomen beneath yellowish-white. Fore and mid legs sepia, the tibiae sparsely irrorated with white, the tarsal segments yellowish-white tipped; hind legs with the femora and tibiae yellowish-white, slightly marked with greyish-brown, the tarsi sepia irrorated with yellowish-white, with yellowish-white tipped segments. Fore wing burnt umber; a sepia basal patch between A₂ and inner margin, not reaching the antemedial line; slight traces of a basal line; a dark velvet-brown antemedial line curved (convexity terminad) from costa to cell, then sharply oblique outwards to below junction of vein Cu₂ and cell, then as sharply oblique inwards to inner margin; an indistinct double medial line, outwardly oblique to small reniform, which is defined by dark velvet-brown scales; a slightly larger ring of dark velvet-brown scales below reniform, between veins Cu₁ and Cu₂; postmedial line dark velvet-brown, directed sharply terminad below costa, then curved round and running parallel with M₁ to reniform, doubling back to its turning point, then curving downward and outward from M₂ to M₃, forming a tooth on M₃, and another following it on Cu₁, from which it curves sharply basad to middle of wing, curving round and running obliquely outward to inner margin directly below reniform; beyond the postmedial line a broad sepia shade from costa to M₂; traces of a triangular apical patch, and an indistinct irregularly waved subterminal line; a dark brown streak from termen along

one-third of vein M_1 between veins R_5 and M_1 , broken by the subterminal line; crenulate fringe sepia, with a yellowish-brown line at base, and with the crenulations of the upper half separated by white points. Hind wing bluish-white; the terminal quarter sepia, lighter costad, narrowing costad and dorsad and not extending far beyond Cu_2 ; fringe white, except near tornus, where it is greyish-brown interspersed with white. Underside: costal margin and distal half fore wing greyish-brown, irrorated with white, more thickly towards termen; basal half covered with yellowish-white hair-scales and with a tuft of buff-yellow scales below the retinaculum; a series of terminal interneural sepia spots; fringe crenulations sepia tipped; hind wing as on upper side, but with dark terminal area thickly irrorated with white; a series of terminal interneural sepia spots; a few greyish-brown scales on each of the veins Sc , R and M_1 postmedially.

♀. In general like ♂; abdomen silvery bluish-white above and beneath, with the broad dorsal sepia stripe narrowing terminad. Fore wing heavily shaded with sepia, leaving a large, lighter, triangular apical patch; the subterminal line lighter and traceable to the inner margin. Underside of hind wing with the postmedial series of greyish-brown spots more pronounced, and present on all except the anal veins.

Exp. holotype ♂ 44 mm.; allotype ♀ 46 mm.

Holotype ♂: Me Song, April 1918.

Allotype ♀: Me Song, 16.4.16.

I have seen specimens from French Indo-China.

This species, which resembles some species of the Catocaline genus *Audea*, apparently belongs to the Ophiderine genus *Nagia*, but it resembles no other known species of the genus. The ♂ is remarkable for its antennae, which possess at the middle a distinct fusiform thickening formed by a shallow bend in the shaft, filled in numerous long scales above, and for a single very flat basal abdominal tuft.

101. *NAGIA LINTEOLA* (Guen.).

Catephia linteola Guen., Noct. iii, p. 44 (1852).

♂ Sriracha, 9.4.14, at treacle. ♀ Bangkok, 30.11.14, at light.

102. *ERICEIA ERIOPHORA* (Guen.).

Hulodes eriophora Guen., Noct. iii, p. 210 (1852).

♂ Sriracha, 27.4.15, at treacle.

103. *ERICEIA INANGULATA* (Guen.).

Hulodes inangulata Guen., Noct. iii, p. 210 (1852).

2 ♂ ♂ Bangkok, 15.7.15, 7.1.16, at light. ♂ Me Sai Song,

April 1918. 5 ♀ ♀ Bangkok, 8.1.15, 13.2.15, 13.7.14, 25.5.19, 26.11.19, at light. ♀ Sriracha, 10.4.14, at light.

104. *HULODES CARANEA* (Cram.).

Phalaena Noctua caranea Cram., Pap. Exot. iii, p. 140 & index, pl. 269, figs. E, F (1780).
♀ Bangkok (W. A. Graham).

105. *HULODES DRYLLA* Guen.

Hulodes drylla Guen. Noct. iii, p. 209, pl. 24, fig. 10 (1852).
♀ Sriracha, 27.4.15, at treacle. ♀ Me Song forest, Prae, N. Siam, 20.4.16, at light.

106. *ISCHYJA MANLIA* (Cram.).

Phalaena Noctua manlia Cram., Pap. Exot. i, p. 144 & index, pl. 92, fig. A (1776).
♂ Me Sai Song, Prae, N. Siam, April 1918, at light. ♀ Bangnara (W. A. Graham). ♀ Me Tharn, April 1918. ♀ Sriracha, 30.4.15.

107. *PLATYJA UMMINIA* (Cram.).

Phalaena Noctua umminia Cram., Pap. Exot. iii, p. 137 & index, pl. 267, fig. F (1780).
♂ Bangkok (W. A. Graham).

108. *FACIDIA LILACH* (Guen.).

Hypaetra lilach Guen., Noct. iii, p. 260 (1852).
♀ Bangkok, 5.12.19, at light.

109. *FACIDIA SUFFUMATA* (Guen.).

Sympis suffumata Guen., Noct. iii, p. 344 (1852).
♀ Me Song forest, Prae, N. Siam, 29.4.16, at light.

110. *SYMPIS RUFIBASIS* Guen.

Sympis rufibasis Guen., Noct. iii, p. 344, pl. 24, fig. 1 (1852).
♂ Klong Sam, Bangkok, 15.9. 19, at light.

111. *SPHINGOMORPHA CHLOREA* (Cram.).

Phalaena Noctua chlorea Cram., Pap. Exot. ii, p. 12 & index, pl. 104, fig. C (1777).
♂ Me Tharn, April 1918. ♂ Koh Si Chang, April 1919.
♀ Sriracha, S. E. Siam, 27.4.15, at light. ♀ Nong Khai Ploi, 30.4.15.

112. PANDESMA QUENAVADI Guen.

Pandesma quenavadi Guen., Noct. ii, p. 438, pl. 15, fig. 3 (1852).
 ♀ Sriracha, 22.4.15, at treacle. ♀ Chumporn, 4.1.16.

113. CALESIA FLABELLIFERA Moore.

Calesia flabellifera Moore, Pr. Zool. Soc. Lond. 1878, p. 849.
 ♂ Me Lem, April 1918. 2 ♂ ♂ Me Tharn, April 1918.

114. CALESIA DASYPTERA (Koll.).

Erebus dasypterus Koll., Hügel's Kaschmir. iv, p. 476 (1844).
 ♂ Me Sai Song, April 1918.

115. CALESIA PROXANTHA Hmpsnn.

Calesia proxantha Hmpsnn., Tr. Ent. Soc. Lond. 1895, p. 306.
 ♂ Me Tharn, April 1918. ♂ Me Chow, April 1918.
 ♀ Me Song forest, Prae, N. Siam, 19.4.16.

116. CALESIA HAEMORRHOA Guen.

Calesia haemorrhœa Guen., Noct. iii, p. 258 (1852).
 ♀ Bangkok, 17.2.16, at light.

117. TINOLIUS QUADRIMACULATA Walk.

Tinolius quadrimaculatus Walk., List Lep. Ins. B. M. xxxi, p. 281
 (1864).
 ♂ Hup Bon, S. E. Siam, 22.4.14, in open jungle.
 ♂ Me Chow, April 1918. ♀ Pak Mat, Jan. 1920.

118. SERICIA ZAMIS (Stoll.).

Phalaena Noctua zamis Stoll., Pap. Exot. v, p. 162 & index,
 pl. 36, fig. 11 (1790).
 ♂, ♀ Sriracha, S. E. Siam, 27.4.15, at treacle.

119. SERICIA MUTABILIS (Fabr.).

Noctua mutabilis Fabr., Ent. Syst. iii, 2, p. 12 (1794).
 ♀ Sriracha, 27.4.15, at treacle.

120. OMMATOPHORA FULVASTRA Guen.

Ommatophora fulvastra Guen., Noct. iii, p. 191 (1852).
 2 ♀ ♀ Sriracha, 9.4.14, 10.4.14, at treacle.
 ♀ Nong Khai Ploi, 1.5.14, at light. 2 ♀ ♀ Me Sai Song,
 April 1918.

121. SERRODES PARTITA (Fabr.).

Noctua partita Fabr., Syst. Ent. p. 604 (1775).
 ♀ Bangkok (W. A. Graham).

122. SERRODES CAMPANA Guen.

Serrodes campana Guen., Noct. iii, p. 252 (1852).
 ♂ Muak Lek, E. Siam, 12.7.14, at light.

123. FODINA ORIOLUS Guen.

Fodina oriolus Guen., Noct. iii, p. 274 (1852).
 ♂ Hup Bon, S. E. Siam, 30.4.14, flying in open jungle.

124. FODINA PALLULA Guen.

Fodina pallula Guen., Noct. iii, p. 275 (1852).
 ♂ Me Song forest, Prae, N. Siam, 15.4.18, flying in open jungle.
 ♂ Khanduli, Peninsular Siam, Sept. 1918.

125. FODINA STOLA Guen.

Fodina stola Guen., Noct. iii, p. 275 (1852).
 ♂, ♀ Me Song forest, Prae, N. Siam, 27.4.16, 14.4.6.
 ♂, 2 ♀ ♀ Me Tharn, April 1918. 2 ♂ ♂ Me Lem, April 1918.

Genus GONOGLASA nov.

Type *G. campogramma*.

Proboscis fully developed; palpi with the 2nd joint obliquely upturned to well above vertex of head and fringed with hair in front and behind, the 3rd long, porrect, and rather thickly scaled; frons smooth, with tuft of hair above; eyes large, round; antennae of female ciliated; thorax clothed almost entirely with scales and without crests; tibiae slightly fringed with hair; abdomen with dorsal crests on two basal segments, the crest on 2nd segment rather large. Forewing with the apex produced and acute, the termen excurved at middle and hardly crenulate; veins 3 and 5 from near angle of cell; 6 from upper angle; 9 from 10 anastomosing with 8 to form the areole; 11 from cell. Hind wing with the cell half the length of the wing; veins 3,4 from angle or shortly stalked; 5 fully developed from well above angle; 6,7 from upper angle; 8 anastomosing with the cell near base only. (G. F. HAMPSION).

126. GONOGLASA CAMPTOGRAMMA, n. sp.

Pl. 17 fig. 18.

♀. Head and thorax red-brown mixed with white; antennae brown, white towards base; frons, palpi, pectus and legs red-brown, the tarsi ringed with white; abdomen pale red-brown, the crest on 2nd segment dark brown, the ventral surface white tinged with red-brown. Fore wing red-brown mixed with white, the costal area white, the veins of terminal area streaked with white; a dark brown point in cell near base; antemedial line white defined on outer side

by red-brown, rather oblique to median nervure where it is strongly bent outwards, then erect; a minute red-brown spot with white point on it in middle of cell, and white discoidal bar defined on inner side by red-brown; postmedial line white defined on inner side by red-brown, slightly excurved below costa, then straight and erect; subterminal line white defined on inner side by red-brown marks in the interspaces, excurved below vein 7, strongly angled inwards at discal fold, excurved at middle, then incurved; a red-brown terminal line and fine whitish line at base of cilia. Hind wing pale red-brown; an indistinct oblique red-brown postmedial line from below the costa to tornus; a red-brown terminal line; cilia white at base. Underside of fore wing whitish suffused with red-brown, a diffused oblique red-brown postmedial line; hind wing whitish irrorated with red-brown, a red-brown discoidal spot, postmedial line and slight subterminal shade.

Hab. Borneo, Sandakan (Pryer) 1 ♀ type. Exp. 39 mm.

(G. F. HAMPSON).

♂ Me Song forest, Prae, N. Siam, 16.4.16.

127. HYPOCALA ROSTRATA (Fabr.).

Hyblaea rostrata Fabr., Ent. Syst. iii, 2, p. 127 (1794).

♂ Me Song forest, Prae, N. Siam, 30.4.18, at light.

2 ♂ ♂ Bangkok, Sept. 1919, at light.

128. HYPOCALA VIOlacea Butl.

Hypocala violacea Butl., Tr. Ent. Soc. Lond. 1879, p. 6.

2 ♂ ♂ Bangkok, 13.7.14, 10.9.19, at light.

129. GESONIA OBEDITALIS Walk.

Gesonia obeditalis Walk., List Lep. Ins. B. M. xvi, p. 75 (1858).

2 ♀ ♀ Chumporn, Jan. 1916.

Genus CARSINA nov.

Type *C. obliqua* (Moore).

Phurys obliqua Moore, Pr. Zool. Soc. Lond. 1867, p. 80.

Proboscis fully developed; palpi with the 2nd joint oblique, extending about twice the length of head, moderately scaled below, and fringed with hair above, the 3rd upturned, long and smoothly scaled; frons smooth, with tuft of hair above; eyes large, round; antennae of male with bristles and cilia; thorax clothed with hair only and without crests; fore and mid tibiae slightly fringed with hair, abdomen with some rough hair at base of dorsum but without crests. Fore wing with the apex somewhat produced and acute, the termen evenly curved and not crenulate; veins 3 and 5 from

near angle of cell; 6 from upper angle; 9 from 10 anastomosing with 8 to form the areole; 11 from cell. Hind wing with the cell about one third length of wing; veins 3,4 from angle; 5 fully developed from above angle; 6,7 from upper angle; 8 anastomosing with the cell near the base only. (G. F. HAMPSON).

130. CARSINA FLAVIBRUNNEA (Hmpsn.).

Zethes flavibrunnea Hmpsn., Moths Ind. iii. p. 8 (1895).
 ♂, ♀ Me Lem, April 1918. ♀ Me Chow, ♀ Me Tharn,
 ♀ Me Sai Song, ♀ Me Lam Pong, April 1918.

131. CARSINA BENDIOIDES (Walk.).

Remigia ? bendioides Walk., Journ. Linn. Soc. Lond. (Zool.) vii,
 p. 184 (1864).
 2 ♀ ♀ Me Tharn and Me Sai Song April, 1918.

132. RHYTIA HYPERMNESTRA (Stoll.).

Phalaena Noctua hypermnestra Stoll., Pap. Exot. iv, p. 69 & index,
 pl. 323, figs. A, B (1780).
 ♀ Sriracha, S. E. Siam, 27.4.16, at treacle.

133. OTHREIS FULLONICA (Linn.).

Phalaena Noctua fullonica Linn., Syst. Nat. ed. xii, (1), 2, p. 812
 (1767).
 ♀ Bangkok, 7.2.15 (H. R. H. the Prince of Chumporn).

134. EUMAENAS* SALAMINIA (Cram.).

Phalaena Noctua salaminia Cram., Pap. Exot. ii, p. 117 & index,
 pl. 174, fig. A (1777).
 ♂ Bangkok (W. A. Graham).

135. COSMOPHILA FLAVA (Fabr.).

Noctua flava Fabr., Syst. Ent. p. 601 (1775).
 2 ♂ ♂ Bangkok, 12.5.16, 27.10.19, at light.

136. COSMOPHILA SABULIFERA (Guen.).

Gonitis sabulifera Guen., Noct. ii, p. 404 (1852).
 ♂ Bangkok, 15.3.16, at light.

**Eumaenas* Hmpsn. nom. nov. for *Maenas* Hübn., Verz. bek. Schmett.
 p. p. 264 (1825) nec. p. 167.

137. ANOMIS FULVIDA Guen.

Anomis fulvida Guen., Noct. ii, p. 397 (1852).

♂ ♂ Bangkok, 20.1.15, 10.9.19, at light; ♀ Me Tharn, April 1918.

138. ANOMIS FIGLINA Butl.

Anomis figlina Butl., Ill. Het. B. M. vii, p. 71, pl. 131, fig. 2 (1889).

♂ Me Sai Song, Prae, N. Siam, April 1918, at light.

139. CORCOBARA ANGULIPENNIS Moore.

Corcobara angulipennis Moore, Lep. Atk. p. 186, pl. 6, fig. 16 (1882).

♂ Me Song Forest, Prae, N. Siam, 14.4.16, at light. ♂ Me Lem, 15.4.18.

140. HYPERLOPHA CRISTIFERA (Walk.).

Ephyrodes cristifera Walk., List Lep. Ins. B. M. xxxiii, p. 1071 (1865).

♀ Bangkok, 25.1.15, at light.

141. CALPE EXCAVATA Butl.

Calpe excavata Butl., A. M. N. H. (5) i, p. 202 (1878).

♂ Paknam Chumphon, Peninsular Siam, Sept. 1918, at light.

142. ATTONDA ADSPERSA (Feld.).

Felinia ? adspersa Feld., Reise Novara, pl. 117, fig. 23 (1874).

♀ Me Lem, April 1918.

143. HAMODES PROPITIA (Guér.).

Ophiusa propitia Guér., Voy. de la Coquille ii, p. 285, pl. 19, fig. 6 (1830).

♀ Sriracha, S. E. Siam, 27.4. 15, at treacle.

144. UGIA SUNDANA n. sp.

Pl. 17 fig. 12.

♀. Head and thorax whitish tinged with red-brown, the abdomen more strongly tinged with red-brown and slightly irrorated with blackish; sides of frons and palpi deep chocolate-brown, the latter with the third joint whitish irrorated with black; pectus, legs and ventral surface of abdomen white. Fore wing ochreous suffused with red-brown and slightly irrorated with dark brown; a faint curved brown antemedial line; a black discoidal spot placed on a faint brown lunule; a slight oblique shade from costa just beyond the cell, an oblique dark mark from apex continued as a double red-brown line filled in with purplish grey to inner margin beyond

middle; with a series of bluish white marks beyond it in the interspaces, larger towards inner margin; subterminal line rather diffused, brown, incurved from apex to vein 4, then incurved and waved; a series of black points before termen; cilia grey-brown. Hind wing ochreous suffused with red-brown and irrorated with a few blackish scales; a slight dark discoidal striga; an oblique double red-brown medial line filled in with purplish grey from below costa to vein 1 with bluish white marks on its outer side from discal fold to vein 1, where the mark is longer; subterminal line indistinct, diffused, brown, excurved at middle, then incurved and waved; a series of black points before termen. Underside whitish tinged with red-brown and irrorated with dark brown; fore wing with blackish points in middle of cell and on discocellulars, both wings with a series of black points before termen, fine dark terminal line and the cilia brown.

Hab. Java, Palabuan 1 ♀ type. Exp. 46 min.

(G. F. HAMPSON).

♀ Sriracha, 9.4.14.

145. ANTICARSIA IRRORATA (Fabr.).

Noctua irrorata Fabr., Spec. Ins. ii Appendix, p. 506 (1781).

3 ♂ ♂ Bangkok, 12.9.19, 30.11.19, 27.12.19.

2 ♀ ♀ Bangkok, 15.9.19, 25.10.19.

146. MARAPANA PULVERATA (Guen.).

Sanys pulverata Guen., Noct. iii, p. 351 (1852).

♂ Me Sai Song, Prae, N. Siam, Sept. 1918, at light.

147. MECODINA PRAECIPUA (Walk.).

Thermesia praecipua Walk., List Lep. Ins. B. M. xxxiii, p. 1056 (1865).

♂ Bangkok (W. A. Graham).

Genus HEOEUGORNA nov.

Type *H. alboarcuata* (Beth.-Baker).

Eugorna alboarcuata Beth.-Baker, Nov. Zool. xiii, p. 269 (1906).

Proboscis fully developed; palpi upturned, the second joint reaching to vertex of head, broadly fringed with hair in front, and slightly fringed with hair behind towards extremity, the third long and smoothly scaled; frons smooth, with tuft of hair above; eyes large, round; antennae long, of male with serrations ending in bristles, of female minutely serrate; thorax clothed with rough hair and scales mixed, and without crests; tibiae fringed with long hair, the first joint of hind tarsi typically fringed with long hair above;

abdomen typically with large dorsal ridges of rough hair except towards extremity, but without crests, the ventral surface clothed with rough hair in male. Fore wing with the apex rounded, the termen evenly curved and not crenulate; veins 3 and 5 from near angle of cell; 6 from upper angle; 9 from 10 anastomosing with 8 to form the areole; 11 from cell. Hind wing with the cell about one-third length of wing; veins 3,4 from angle; 5 fully developed from just above angle; 6,7 from upper angle; 8 anastomosing with cell near base only. (G. F. HAMPSON).

148. *HEOFUGORNA OCHROVITTATA* (Pag.).

Ophiusa ochrovittata Pag., Jahrb. Nass. Verein xlvii, p. 45, pl.i, fig. 10 (1894).
♂ Me Tharn, April 1918.

149. *AVITTA LUNIFERA* (Druce).

Toxocampa lunifera Druce, Pr. Zool. Soc. Lond. 1888, p. 575.
♀ Sriracha, S. E. Siam, 10.4.14, at light.

150. *AVITTA SUBSIGNANS* Walk.

Avitta subsignans Walk., List Lep. Ins. B. M. xv, p. 1675 (1858).
♀ Bangkok, 26.10.19, at light.

151. *LACERA ALOPE* (Cram.).

Phalaena Bombyx alope Cram., Pap. Exot. iii, p. 168 & index, pl. 286, figs. E, F (1780).
♀ Sriracha, S. E. Siam, 28.4.16, at light.

152. *EPISPARIS LITURATA* (Fabr.).

Phalaena liturata Fabr., Mant. Ins. ii, p. 197 (1787).
♂ Sriracha, 9.4.14, at treacle; ♂ Bangkok, 17.7.14, at light; ♀ 14.7.14.

153. *VESTURA MINEREUSALIS* (Walk.).

Egnasia minereusalis Walk., List Lep. Ins. B. M. xvi, p. 223 (1858).
♀ Sriracha, S. E. Siam, 9.4.14, at treacle.

154. *PANGRAPTA SHIVULA* (Guen.).

Marmorinia shivula Guen., Noct. iii, p. 372 (1852).
♂ Muak Lek, E. Siam, 11.7.14, at light.

155. *PANGRAPTA TALUSALIS* (Walk.).

Pl. 17 fig. 10.

Egnasia talusalis Walk., ♀ List Lep. Ins. B. M. xvi, p. 219 (1858).
♂ Palpi: 1st segment upcurved to vertex, 2nd segment ver-

tical, 1 mm. long, 3rd segment vertical $2\frac{1}{2}$ mm. long; the 2nd and 3rd segments are very slender, naked on the inner side, bear long hairs in front and behind, and are scaled on the outer side; the hair in front of the 2nd segment is as long as that segment, that in front of the 3rd gradually shorter to the tip, and in both cases the hair is directed forwards at right angles to the segment; the hair behind is directed backward and upward; at the base of the 2nd segment it is as long as the two segments together, and extends back over the thorax, and is gradually shorter to the tip of the 3rd segment, the hair of the terminal third being bunched along the segment. The antennae are scaled above, ciliated beneath, with two strong curved lateral bristles at the base of each segment, each as long as two segments and directed downwards and forwards, and two shorter ventral bristles near the base of each segment, directed downwards and backwards. Hind tibiae with the distal two-thirds beneath bearing a triangular tuft of hair.

Palpi with the whole of the inner side buff; outer side of 1st segment sepia on basal half, distal half buff irrorated with greyish-brown; outer side of 2nd and 3rd segments buff sparsely irrorated with greyish-brown. Antennae above, head, thorax and abdomen buff, the head and thorax irrorated with greyish-brown. Pectus and underside of abdomen buff; legs buff, the coxae, femora and tibiae thickly irrorated with greyish-brown. Fore wing clayish, irrorated with greyish-brown; indistinct waved greyish-brown antemedial, medial and postmedial lines, outwardly oblique from costa to upper edge of cell, then inwardly oblique to inner margin; a whitish spot on the antemedial line in the cell, and a whitish streak indistinctly edged with black on the discocellulars. A triple greyish-brown waved subterminal line, indistinct from costa to vein R_5 ; a large round blackish spot between R_5 and M_1 , edged terminad with whitish; from this spot the subterminal line is distinct, sharply angled basad to just above vein M_2 , where it turns downwards and slightly outwards to vein M_3 , continuing in a sweeping curve (convexity basad) to inner margin; 3 blackish-brown spots on innermost of the three lines forming the subterminal, one between the inner margin and anal vein, one between anal vein and vein Cu_2 , and one between veins Cu_2 and Cu_1 ; opposite these, between the second and third lines forming the subterminal, some whitish scales; a brown shade between veins M_3 and Cu_1 from the subterminal to termen; a row of interneural dark brown spots before termen; a crenulate brown terminal line; fringe greyish-brown, its base brownish-buff. Hind wing as fore wing; from base to subterminal the lines straight and oblique, with dark brown discocellular streak; subterminal triple, inner line fine, very dark brown, second more diffuse, brown, the third indistinct, greyish-brown; spots before termen, terminal line

and fringe as in forewing. Underside: fore wing buff, darker towards costa, thickly irrorated with greyish-brown; a blackish-brown spot in cell, a smaller one in middle of discocellulars; a broken brownish postmedial line, outwardly oblique from costa to vein R₅, then gradually curved inward to vein Cu₂, and slightly outward to inner margin; subterminal line indistinct, with a distinct dark brownish spot between veins R₅ and M₁; a series of dark brown interneuronal spots before termen; terminal line and fringe as on upper side. Hind wing buff, thickly irrorated with greyish-brown; a blackish-brown spot on discocellulars; a distinct broken brownish postmedial line, parallel with termen; an indistinct greyish-brown subterminal line, parallel with termen; spots before termen, terminal line and fringe as on upper side. Exp. 30 mm.

Neallotype ♂ : Bangkok, 20.9.19.

The species was originally described from a ♀ labelled "E. Indies". The palpi are very different from those of the ♂. The 1st segment does not reach the middle of the frons, being only about 1 mm. long, the 2nd is slightly over 2 mm. long, slightly curved, vertical, and as stout as the hind tarsus; the 3rd is nearly 3 mm. long, slightly curved, very slender, sharply pointed and directed back over the thorax.

156. EGNASIA RECTILINEATA Swinh.

Egnasia rectilineata Swinh., A. M. N. H. (6) xv, p. 14 (Jan. 1895).
♂ Me Song forest, Prae, N. Siam, 16.4.16, at light.

157. OXYODES SCROBICULATA (Fabr.).

Noctua scrobiculata Fabr., Syst. Ent. p.592 (1775).
♀ Me Lem, Prae, N. Siam, April 1918, at light.

HYPENINAE.

158. OXAENANUS BRONTESALIS (Walk.).

Mastygophora brontesalis Walk., List Lep. Ins. B. M. xvi, p. 151 (1858).
♂ Pak Jong, 3.1.16, at light.

159. NODARIA CORNICALIS (Fabr.).

Phalaena cornicalis Fabr., Ent. Syst. iii, 2, p. 229 (1794).
♂ Pak Jong, 30.12.15, at light.

160. SIMPLICIA BUTESALIS (Walk.).

Libisosa butesalis Walk., List Lep. Ins. B. M. xvi, p.187 (1858).
♀ Sriracha, 3.4.14, in open jungle,

161. HYDRILLODES LENTALIS Guen.

Hydrillodes lentalis Guen., Delt. & Pyr. p. 66, pl. 5 fig. 3 (1854).
♂ Bangkok, 27.11.19.

162. DICHROMIA OROSIA (Cram.).

Phalaena Noctua orosia Cram., Pap. Exot. iii, p. 149 & index, pl. 275, fig. D (1780).
♂ Bangkok, 22.10.19,

163. DICHROMIA TRIGONALIS Guen.

Dichromia trigonalis Guen., Delt. & Pyr. p. 19 (1854).
♀ Bangkok, 17.9.19.

164. HYPENA LAESALIS Walk.

Hypena laesalis Walk., List Lep. Ins. B. M. xvi, p. 62 (1858).
♀ Bangkok, 20.2.14.

165. HYPENA ICONICALIS Walk.

Hypena iconicalis Walk., List Lep. Ins. B. M. xvi, p. 61 (1858).
♀ Bangkok, 4.3.16.

166. HYPENA ALLOCHROALIS sp. n.

Pl. 17, fig. 11.

♂. Palpi hair-brown, irrorated with clayish. Antennae hair-brown, basal third with white scales above and in front, distal two-thirds banded with greyish. Frons naked below, white in the middle, hair-brown above. Head and thorax hair-brown lightly irrorated with greyish-brown, metathoracic crest sepia; abdomen hair-brown, with tawny-olive crests on three basal segments. Pectus in front hair-brown, behind buff; fore and mid legs hair-brown, finely irrorated with greyish, femora buff beneath, tarsal segments buff-tipped; hind femora buff, tibiae and tarsi with inner side buff, outer side with greyish-brown and buff mixed, tarsal segments buff-tipped. Fore wing drab, bisected by a vertical three-coloured waved line; a small raised tuft of greyish-tipped sepia scales near base of cell; a curved (concavity basad) waved ferruginous antemedial line, followed by a small tuft of raised white-tipped sepia scales; a vertical blackish-brown line before the end of the cell, edged basad with ferruginous, terminad with white, curved from costa to middle of cell, from middle of cell to below vein Cu₂, and from this point again to inner margin, in all three cases with convexity basad; the whole area from the base of the wing to this line thickly irrorated with opalescent scales, the area from the antemedial to this bisecting line and above the cell irrorated with sepia scales, and the area below

this and basad irrorated with ferruginous scales; the opalescence in the costal area is bluish-violet, and below this to inner margin bluish-green; the white edging of the waved bisecting line is followed by traces of opalescence; a small sepia dot at upper angle of cell, a larger sepia spot at lower angle; a waved strip of light greyish and drab mixed, thickly irrorated with blackish-brown in the costal region above R₅, extending to apex; below R₅ it is followed by sepia shading, succeeded by light brownish patches before the mummy-brown subdenteate subterminal line, the somewhat blunt dentations of which are in the upper part of the wing tipped with white, and in the lower part with buff or clayish; area before the terminal line and below vein R₅ light brownish, thickly irrorated with mummy-brown; a mummy-brown terminal line, preceded by a light buff shading, interneurally dentate towards the subterminal line, and succeeded by a slight brownish-buff edging; a three-layered fringe of greyish-tipped sepia scales; hind wing hair-brown, with darker brown terminal line edged with brownish-buff; fringe as in fore wing, except a lighter portion between R_{s*} and M₃, and a buff patch between Cu₂ and A₂. Underside fore wing hair-brown, irrorated with pale buff along the costal margin to apex; inner marginal area below anal vein pale yellowish-white; a dark S-waved line, the lower half on the discocellulars; a spot, basal half sepia, distal half white, just below junction of veins R₃ and R₄; a sepia terminal line, interneurally thickened into dentate marks from apex to vein Cu₂; fringe as on upper side, but lighter. Underside hind wing pale pinkish-buff, heavily irrorated with hair-brown, except at inner margin; a hair-brown streak on the discocellulars; a hair-brown subterminal shade, parallel with termen to vein Cu₂, meeting just beyond vein A₂, the area between it and the termen, from vein Cu₂ to A₂, almost lacking the darker irrorations; a sepia terminal line, interneurally thickened into dentations from apex to vein Cu₁; fringe as on upper side but lighter. Exp. 30 mm.

Holotype ♂ : Bangkok, 23.2.14.

Paratype ♂ : Singapore (H. N. Ridley).

Paratype ♂ : Hab. ? ex coll. Moore.

This species is closely related to *mandatalis* Walk. The basal half of the fore wing in *mandatalis* is very dark brown, and there is a blackish-brown shade from the discocellulars towards the termen. The vertical line bisecting the fore wing appears merely as a white edging to the blackish-brown border of the dark brown basal

*Radial sector of Comstock. R₁ is apparently united with Sc. in the hind wings of most moths, whilst R (2+3) + R (4+5) exist only as one vein, the radial sector, R_s.

half of the wing, and the three curves in it are more convex, the angles between them sharper.

167. OPHIUCHE MISTACALIS (Guen.).

Herminia mistacalis Guen., Delt. & Pyr. p. 60 (1854).
♀ Bangkok, 20.2.15.

168. BOOCANA UMBRINA sp. n.

Pl. 17, fig. 16.

♀. Palpi raw umber irrorated with buff, predominating on inner side of 2nd segment. Antennae greyish-brown. Head and thorax raw umber, scales greyish-tipped. Abdomen bistre, with a few greyish scales. Pectus, legs and underside of abdomen raw umber, irrorated with buff. Fore wing raw umber; antemedial line beginning as an outwardly oblique yellowish-white streak from costa, then clayish, vertical, waved and ending in a yellowish-white inwardly oblique streak to inner margin; an obscure lunulate discocellular mark, slightly darker than the ground colour; postmedial line beginning as a whitish wedge-shaped mark, sharply oblique outwards, continuing as a deep clay-coloured dentate line, curved (convexity terminad) to vein Cu₂, slightly oblique to inner margin, the whole line accentuated by a deepening of the ground colour before it; an irregular subterminal line darker than the ground colour, with a whitish mark beyond it at the costa, and a broader dark shade before it from costa to vein M₁, and whitish points on the veins; terminal area from apex to vein M₃ showing a diffused patch lighter than the ground colour; fringe bistre, fawn-tipped. Hind wing bistre; a buff dentate postmedial line curved from costa to vein Cu₂ (convexity terminad), then oblique to just before tornus, immediately preceded and accentuated by a narrow dark line; area following postmedial line shaded with buff, passing to a deep bistre shading before the waved, curved subterminal row of buff points; fringe bistre, fawn-tipped. Underside fore wing raw umber irrorated with pale buff, inner margin broadly yellowish-white; a white point in middle of cell; reniform dark brown outlined with white; postmedial line as on upper side; subterminal line as on upper side, the pale edging more continuous and not entirely confined to spots; fringe lighter than on upper side. Hind wing beneath raw umber, irrorated with pale buff; a dark brown spot, outlined with white, on discocellulars; postmedial and subterminal lines as on upper side, the latter with its light edging more continuous; fringe lighter than on upper side. Exp. 36 mm.

Holotype ♀ : Pak Jong, 1.1.16.

169. *HADENNIA UMBRINA* sp. n.

Pl. 17, fig. 4.

♂. Palpi on outer side, and 1st and 2nd segments on inner side sepia, sparsely irrorated with buff; inner side of 3rd segment buff. Antennae pale buff at base, then alternately sepia and pale buff to middle, distal half sepia. Head, thorax and abdomen sepia, but lighter than palpi; the thorax and base of abdomen tinged with russet, terminal abdominal tuft brownish-buff. Pectus and underside of abdomen sepia, abdomen lighter, basal and terminal segments tipped with buff. Legs sepia, tibial spurs and tarsi lighter, tibiae deep purplish-brown. Fore wing raw umber, thickly irrorated with cinnamon; a fine curved dark brown basal line (convexity basad); a small yellowish-white spot in the middle of the cell; a fine dark brown antemedial line, bent outwards below costa to upper edge of cell, then almost straight, and perpendicular to inner margin; an elongate yellowish-white spot, edged with dark brown, on the discocellulars; a dark brown postmedial line, sharply oblique outwards from costa to vein M_1 , then inwards obliquely to middle of inner margin, but almost obsolete; an almost straight heavily shaded dark brown oblique line from apex to inner margin about 3 mm. from tornus, pale-edged terminad, and preceded on the costa by a buff spot; an indistinct waved dark brown terminal line; fringe sepia, interneurally yellowish-white at its base. Hind wing like fore wing, but with pale greyish-brown above Sc to subterminal line; a straight fine dark brown antemedial line at about one-third; a yellowish-white spot on the discocellulars; a straight fine dark brown line just beyond end of cell (postmedial); an oblique broadly shaded dark brown line at two-thirds, with a pale greyish-brown edging terminad (a continuation of the corresponding line on fore wing); terminal line and fringe as in fore wing. Underside of fore wing sepia, the area beyond the oblique line lighter; costal fold greyish-brown irrorated with pale cinnamon, inner margin to postmedial line broadly yellowish-white; faint traces of a dark antemedial line; a yellowish-white streak on the discocellulars; postmedial as on upper side, dark; indications of an oblique line as on upper side, but pale yellowish-white. Underside of hind wing very dark velvety-brown, much lighter from vein Cu_2 to inner margin; fringe sepia, with a pale buff line at base. Exp. 36 mm.

Holotype ♂ : Bangkok, 10.1.16.

The fore and hind tibiae of this species have widely spreading tufts of scales.

HYBLAEINAE.

170. HYBLAEA PUERA (Cram.).

Phalaena Noctua puera Cram., Pap. Exot. ii, p. 10 & index, pl. 103,
figs. D, E (1777).

♀ Me Tharn, April 1918.

171. HYBLAEA CONSTELLATA Guen.

Hyblaea constellata Guen., Noct. ii, p. 391 (1852).

2 ♂♂ Muak Lek, 9.7.14, 10.7.14, on moist sand on banks of stream.

♀ Me Song, April 1918.

172. HYBLAEA FIRMAMENTUM Guen.

Hyblaea firmamentum Guen., Noct. ii, p. 392 (1852).

♀ Me Tharn, Prae, N. Siam, April 1918.

173. HYBLAEA CASTANEA sp. n.

Pl. 17, fig. 5.

♂. Palpi above chestnut-brown, beneath white. Antennae sepia. Head and thorax chestnut-brown; mesothorax and basal half of tegulae purplish-fuscous. Abdomen blackish, the segments marked laterally at the divisions with yellowish-white, anal tuft blackish-grey. Pectus yellowish-white; legs yellowish-white, except tarsi, which are greyish-brown above, yellowish-white beneath, the segments tipped with yellowish-white; underside of abdomen yellowish-white at base, grading through greyish to greyish-brown terminally. Fore wing fairly broad; costa strongly arched to just before apex, where it is sharply concave; termen strongly rounded, excised immediately below apex; the apical costal concavity and the apical terminal excision producing a subfalcate appearance; below the cell, and before the obsolescent antemedial line a greenish-fuscous patch; from this diagonally to apex a broad purplish-fuscous shade, arched costad; the whole of the area above the basal patch and dark shade to the costa chestnut-brown, and extending, except for postmedial line, to apex; the area enclosed by the dark shade, inner margin and termen dull orange-brown; postmedial line yellowish-white, from costa sharply oblique towards terminal apical excision, then merged in the dark shade, and continued as an obscure brownish line from dark shade to inner margin parallel with termen; a subterminal series of interneural black dots; fringe whitish in apical excision, remainder dark orange-brown. Hind wing sepia; a yellow spot between veins M_2 and Cu_1 , midway between end of cell and termen; two undulating yellow stripes from vein Cu_2 almost to tornus, the width of the yellow spot apart; fringe greyish-brown. Underside of fore wing purplish-fuscous; a yellowish-white margin along costa

about 1 mm. wide, orange-brown at apex, expanded at middle of cell into a subtriangular spot, and just beyond end of cell into a larger quadrate spot; inner margin broadly yellowish-white with a greenish tinge; fringe sepia tipped with dark orange-brown; underside of hind wing with costal half pale greyish-brown with a faint greenish mottling; the dorsal half covered with very pale greenish-blue scales; numerous blackish spots over the whole wing; fringe greyish-brown. Exp. holotype ♂ 34 mm., paratype ♂ 32 mm.

Holotype ♂ : Pak Jong, E. Siam, 4.1.16.

Paratype ♂ : Muak Lek, E. Siam, 10.7.14.

The general build and fore wing pattern of this species resembles that of *H. amboinæ* Feld., but the species is easily distinguishable from any other known to me by its chestnut-brown colouring and the pattern of the hind wings.

PTEROOTHYSANIDAE.

174. PTEROOTHYSANUS NOBLEI Swinh.

Pterothysanus noblei Swinh., Pr. Zool. Soc. Lond. 1869, p. 401, pl. 44, fig. 3.

8 specimens: 3 from Me Tharn, 4 from Me Sai Song, April 1918, and 1 labelled Me Song, 18.4.16.

LIPARIDAE.

175. REDOA SUBMARGINATA Walk.

Redoa submarginata Walk., List Lep. Ins. B. M. iv, p. 826 (1855).
2 ♂ ♂ Bangkok, 25.1.16, 19.11.19. ♂ Pak Mat, Jan. 1920.

176. ARCTORNIS VIRGUNCULA (Walk.).

Euproctis virguncula Walk., List Lep. Ins. B. M. iv, p. 836 (1855).
♂ Bangkok, 14.1.16. ♂ no data. ♀ Bangkok, 2.2.14.

177. NYGMIA VIRGO (Swinh.).

Euproctis virgo Swinh., Tr. Ent. Soc. Lond. 1903, p. 398.
♂ Bangkok, 27.1.16.

178. NYGMIA LUNATA (Walk.).

Euproctis lunata Walk., List Lep. Ins. B. M. iv, p. 837 (1855).
♀ Chumporn, 6.1.16.

179. NYGMIA SEMISIGNATA (Walk.).

Cispia semisignata Walk., List Lep. Ins. B. M. xxxii, p. 356 (1865).
♀ Me Tharn, April 1918.

180. NYGMIA VARIANS (Walk.).

Artaxa varians Walk., List Lep. Ins. B. M. iv, p. 796 (1855).
 ♂ Me Sai Song, April 1918. ♀ Sriracha, 2.4.14.

181. NYGMIA FRATERNA (Moore).

Artaxa fraterna Moore, Lep. Ceylon ii, p. 85 (1883).
 Bangkok, ♂ 15.1.16, 2 ♀ ♀ 14.1.16, 20.10.19.

182. NYGMIA PLANA (Walk.).

Euproctis plana Walk., List Lep. Ins. B. M. vii, p. 1731 (1856).
 ♂ Chumporn, 9.1.16.

183. NYGMIA SCINTILLANS (Walk.).

Somena scintillans Walk., List Lep. Ins. B. M. vii, p. 1734 (1856).
 2 ♀ ♀ Bangkok, 25.2.16.

184. NUMENES SILETTI Walk.

Numenes siletti Walk., List Lep. Ins. B. M. iii, p. 663 (1855).
 ♂, ♀ in cop. near Kawkoreik, N. Siam, Feb. 1920 (Major
 C. H. Stockley). ♀ Me Song, 29.4.16.

185. PANTANA TERMINATA (Walk.).

Genusa terminata Walk., List Lep. Ins. B. M. xxxii, p. 340 (1865).
 ♂ Pak Mat, Feb. 1920.

186. ORGYIA MENDOSA (Hübñ.).

Olene mendosa Hübñ., Samml. Exot. Schmett. Zutr. ii, no. 147,
 p. 19, figs. 293,294 (1823).

10 ♂ ♂ Bangkok: 30.11.14, 29.1.15, 5.11.15, 9.12.15, 15.1.16,
 8.3.16, 27.10.19. ♀ 22.2.16.

187. DASYCHIRA HORSFIELDI (Saund.).

Arctia horsfieldi Saund., Trans. Ent. Soc. Lond. (n. s. 1) 1851,
 p. 162, pl. 12, figs. 1, 2.
 6 ♂ ♂ Bangkok, 7.2.14, 7.1.16, 8.1.16, 10.1.16, 5.3.16.
 ♀ Bangkok, 7.10.15.

188. PORTHETRIA BEATRIX (Stoll.).

Phalaena Bombyx beatrix Stoll., Pap. Exot. v, p. 173 & index,
 pl. 40, fig. 2 (1790).
 ♂ Bangkok (W. A. Graham). ♂ Bangkok, 7.1.16, ♀ 12.2.14.

189. PORTHETRIA ASCETRIA (Hübñ.).

Lymantria ascetria Hübñ., Samml. Exot. Schmett. ii, pl. 178,
 figs. 1-4 (1819-1826).

4 ♂ ♂ Bangkok, 8.1.16, 10.1.16, 16.1.16, 28.1.16. ♂ Me Lem,
April 1918. ♂, ♀, no data.

HYPSIDAE.

190. EUPLOCIA MEMBLIARIA (Cram.).

Phalaena Bombyx membriliaria Cram., Pap. Exot. iii, p. 139 & index,
pl. 269, figs. C, D (1780).

♀ Klong Sam, Bangkok, 12.2.14, in jungle. ♀ Koh Si Chang,
April 1919.

191. ANAGNIA ORBICULARIS (Walk.).

Hypsa orbicularis Walk., List Lep. Ins. B. M. ii, p. 445 (1854).

♂ Hup Bon, 26.4.14. 3 ♂ ♂ Me Tharn, April 1918.

♀ Nong Yai Boo, 13.4.14. ♀ Me Song, 12.4.16. ♀ Me Sai
Song, April 1918.

192. ANAGNIA SUBFASCIA (Walk.).

Hypsa subfascia Walk., List Lep. Ins. B. M. ii, p. 446 (1854).

♀ Hup Bon, 26.4.14. ♂ Me Tharn, April 1918. ♂ Khanduli,
Sept. 1918. ♂ Koh Si Chang, April 1918. ♀ Me Sai Song, April
1918.

193. ASOTA FICUS (Fabr.).

Noctua ficus Fabr., Syst. Ent. p. 595 (1775).

♂ Bangkok, 12.7.14, at light.

194. ASOTA JAVANA (Cram.).

Phalaena Bombyx javana Cram., Pap. Exot. iii, p. 146 & index,
pl. 274, fig. C (1780).

♀ Sriracha, April 1915. ♀ Me Lem, 30.4.16.

195. ASOTA SUBSIMILIS (Walk.).

Hypsa subsimilis Walk., List Lep. Ins. B. M. xxxi, p. 212 (1864).
♂ Me Tharn, April 1918.

196. ASOTA PLAGINOTA Butl.

Asota plaginota Butl., Tr. Ent. Soc. Lond. 1875, p. 320.
♀ Me Lem, April 1918.

197. ASOTA CARICAE (Fabr.).

Noctua caricae Fabr., Syst. Ent. p. 596 (1775).
2 ♀ ♀ Bangkok, 31.10.19, 4.11.19.

198. ASOTA DOMINIA (Cram.).

Phalaena Bombyx dominia Cram., Pap. Exot. iii, p. 123 & index,
pl. 263, figs. A, B (1779).

♂ Bandan, 11.4.14. 3 ♂ ♂, ♀ Me Lam Pong, April 1918.

♂, ♀ Me Sai Song, April 1918. ♀ Me Chow, April 1918.

2 ♂ ♂, ♀ Me Tharn, April 1918. ♂ Koh Si Chang, April 1919.

199. SOMMERIA INSULANA (Feld.).

Digama insulana Feld., Verh. zool.-bot. Ges. Wien 1868, p. 285.

♂ Ban Phaji, 29.12.15, caught on train.

200. DEILEMERA TRIPUNCTARIA (Linn.).

Phalaena Geometra tripunctaria Linn., Syst. Nat. ed. x, p. 523
(1758).

♂ Me Sai Song, April 1918.

201. DEILEMERA COLETA (Stoll.).

Phalaena Geometra coleta Stoll., Pap. Exot. iv, p. 153 (& p. 25),
pl. 368, fig. H (1781).

♂ Bangkok, 1.7.14.

202. DEILEMERA VARIANS (Walk.).

Nyctemera varians Walk., List Lep. Ins. B. M. ii, p. 400 (1854).

♂ Me Song, 12.4.16. 3 ♂ ♂ Me Tharn, April 1918. ♂ Me Lem, April 1918. ♀ Me Chow, April 1918. ♀ Me Sai Song, April 1918.

203. ARGINA CRIBRARIA (Clerck).

Phalaena cribalaria Clerck, Icones Ins. ii, pl. 54, fig. 4 (1764).

♀ Hup Bon, 26.4.15. ♂, ♀ ♀ Khanduli, April 1918.

SPHINGIDAE.

ACHERONTIINAE.

204. HERSE CONVOLVULI (Linn.).

Sphinx convolvuli Linn., Syst. Nat. ed. x, p. 490 (1758).

3 ♂ ♂ Bangkok, 26.3.14, 27.3.14, 29.3.14. 2 ♀ ♀ Bangkok, 26.3.14. 2 ♂ ♂, ♀, no data.

205. ACHERONTIA LACHESIS (Fabr.).

Sphinx lachesis Fabr., Ent. Syst. Suppl. p. 434 (1798).

♂ Bangkok, 8.2.15.

206. ACHERONTIA STYX Westw.

Sphinx (Acherontia) styx Westw., Cab. Or. Ent. p. 88, pl. 42, fig.
3 (1848).

♂ Bangkok, Feb. 1914. ♂ Bangkok, 29.3.14. ♀ Sriracha, 20.9.15.

SESIINAE.

207. CEPHONODES HYLAS (Linn.).

Sphinx hylas Linn., Mant. ii, p. 539 (1771).

♀ Bangkok, 3.11.15.

PHILAMPELINAE.

208. DEILEPHILA NERII (Linn.).

Sphinx nerii Linn., Syst. Nat. ed. x, p. 490 (1758).

♂ Bangkok, 1.11.15, at light. ♀ Bangkok, Jan. 1914.

♀ Bangkok, 6.2.14, at light.

209. DEILEPHILA HYPOTHOUS (Cram.).

Sphinx hypothous Cram., Pap. Exot. iii, p. 165 & index, pl. 285, fig. D (1780).

♂ Bangkok, 1.2.14. ♀ Bangkok.

210. MEGANOTON NYCTIPHANES (Walk.).

Macrosila nyctiphanes Walk., List Lep. Ins. B. M. viii, p. 209 (1856).

♀ Chumporn, Peninsular Siam, 16.1.16 (H. R. H. the Prince of Chumporn).

211. PSIOLIGRAMMA MENEPHRON (Cram.).

Sphinx menephron Cram., Pap. Exot. iii, p. 164 & index, pl. 285, fig. A (1780).

♀ Bangkok, 6.2.15.

212. ACOSMERYX SOCRATES Boisd.

Acosmeryx socrates Boisd., Spec. Gen. Lep. Het. Sphing. p. 219 (1874).

♀ Sriracha, 20.9.15.

213. NEPHELE DIDYMA (Fabr.).

Sphinx didyma Fabr., Syst. Ent. p. 543 (1775).

3 ♂ ♂ Bangkok, 22.3.14, 7.8.15, 16.11.19. ♀ Bangkok, 1.10.19.

214. MACROGLOSSUM GYRANS Walk.

Macroglossa gyrans Walk., List Lep. Ins. B. M. viii, p. 91 (1856).

♂ Chumporn, Peninsular Siam, 7.1.16 (H. R. H. the Prince of Chumporn).

215. MACROGLOSSUM PYRRHOSTICTA Butl.

Macroglossa pyrrhosticta Butl., Pr. Zool. Soc. Lond. 1875, p. 242, pl. 36, fig. 8.

♀ Pak Jong, E. Siam, 4.1.15, at flowers at dusk.

216. MACROCLOSSUM TROGLODYTUS Boisd.

Macroglossa troglodytus Boisd., Spec. Gen. Lep. Het. Sphing. p. 344 (1874).

♂ Pak Jong, E. Siam, 31.12.14, at flowers at dusk.

217. MACROGLOSSUM SITIENE Walk.

Macroglossa sitiene Walk., List Lep. Ins. B. M. viii, p. 92 (1856).

♀ Bangkok, 2.1.17, at flowers.

218. MACROGLOSSUM PROMETHEUS Boisd.

Macroglossa prometheus Boisd., Spec. Gen. Lep. Het. Sphing. p. 355 (1874).

♂ Pak Jong, E. Siam, 1.1.15, at flowers at dusk.

219. MACROGLOSSUM GLAUCOPTERA Butl.

Macroglossa glaucoptera Butl., Pr. Zool. Soc. Lond. 1875, p. 241, pl. 36, fig. 9.

♂ Pak Jong, E. Siam, 4.2.15, at flowers at dusk.

220. MACROGLOSSUM CORYTHUS subsp. LUTEATA Butl.

Macroglossa luteata Butl., Pr. Zool. Soc. Lond. 1875, p. 241.

♂ Pak Jong, E. Siam, 7.1.15, at flowers at dusk. This form is a subspecies of *M. corythus* Walk., List Lep. Ins. B. M. viii, p. 92 (1856).

CHOEROCAMPINAE.

221. HIPPOTION VELOX (Fabr.).

Sphinx velox Fabr., Ent. Syst. iii, 1, p. 378 (1793).

♂ Bangkok, 23.3.14, at light.

222. HIPPOTION BOERHAVIAE (Fabr.).

Sphinx boerhaviae Fabr., Syst. Ent. p. 542 (1775).

♀ Bangkok, 3.2.15.

223. HIPPOTION ECHECLUS (Boisd.).

Choerocampa echeclus Boisd., Spec. Gen. Lep. Het. Sphing. p. 233 (1874).

3 ♂ ♂ Bangkok, 29.3.14, 3.12.14, 25.1.16. ♀ Bangkok, 17.1.16, at light. ♀ Bangkok, 1.12.19.

224. RHYNCHOLABA ACTEUS (Cram.).

Sphinx acteus Cram., Pap. Exot. iii, p. 93 & index, pl. 248, fig. A (1779).

2 ♀ ♀ Bangkok, 26.3.14, at flowers at dusk.

225. THERETRA PINASTRINA (Martyn).

Sphinx pinastrina Martyn, Psyche, pl. 29, fig. 81, pl. 30, fig. 85 (1797).

3 ♂ ♂ Bangkok, 3.12.14, 13.1.15, 31.10.19. ♀ Bangkok, 10.1.15.
All taken at light.

226. THERETRA NESSUS (Drury).

Sphinx nessus Drury, Exot. Ins. ii, p. 46 & index, pl. 76, fig. 1 (1773).

2 ♀ ♀ Bangkok, 8.2.14, 16.9.19, at light.

227. THERETRA RHESUS (Boisd.).

Choerocampa rhesus Boisd., Spec. Gen. Lep. Het. Sphing. p. 254 (1874).

♂ Bangkok, 3.2.14, at flowers at dusk.

228. THERETRA CLOTHO (Drury).

Sphinx clotho Drury, Exot. Ins. ii, p. 48 & index, pl. 28, fig. 1 (1773).

♀ Bangkok, 19.9.19, at flowers at dusk.

229. THERETRA LATREILLEI subsp. LUCASI (Walk.).

Choerocampa lucasii Walk., List Lep. Ins. B. M. viii, p. 141 (1856).

♂ Bangkok, 29.3.14. ♀ Bangkok, Jan, 1914.

EUPTEROTIDAE.

230. MELANOTHRIX LEUCOTRIGONA Hmpsn.

Melanothrix leucotrigona Hmpsn., Moths Ind. i, p. 44 (1892).

♀ Nong Khai Ploi, 2.5.14, in thick jungle.

231. SPHINGOGNATHA PALLIDA (Walk.).

Jana pallida Walk., List Lep. Ins. B. M. iv, p. 912 (1855).

♂ , no data.

232. EUPTEROTE TAAOOENSIS (Moore).

Drepta taoensis Moore, Pr. Zool. Soc. Lond. 1878, p. 848, pl. 53,

fig. 7.

♀ Bangkok, Feb. 1914. ♀ Bangkok, 22.3.14.

NOTODONTIDAE.

233. STAUROPUS ALTERNUS Walk.

Stauropus alternus Walk., List Lep. Ins. B. M. v, p. 1020 (1855).

♀ Bangkok, 16.1.16, on verandah in daytime. ♀ Chumporn, 8.1.16 (H. R. H. the Prince of Chumporn).

234. BESIDA XYLINATA Walk.

Besida xylinata Walk., List Lep. Ins. B. M. xxxii, p. 456 (1865).
 2 ♂ ♂ Bangkok, 10.11.13, 14.1.16, at light. ♀ Bangkok, 9.12.15.

GEOMETRIDAE.

GEOMETRINAE.

235. LOMOGRAPHA TENEBROSA Swinh.

Lomographa tenebrosa Swinh., Tr. Ent. Soc. Lond. 1902, p. 605.
 ♂ Pak Jong, 4.1.16, at light.

236. PARILICRINIA FLAVA (Moore).

Cimicodes flava Moore, Lep. Atk. p. 233, pl. 8, fig. 2 (1888).
 2 ♂ ♂ Me Lem, 14.4.18.

237. ACROLEUCA LUTEA (Stoll.).

Phalaena Geometra lutea Stoll., Pap. Exot. iv, p. 157 & index,
 pl. 370, figs. C, D (1781).
 ♂, ♀ Ban Manao, Feb. 1920. ♂ Me Sai Song, April 1918.
 ♀ Sriracha, 10.4.14.

238. LUXIARIA CONTIGARIA (Walk.).

Acidalia ? contigaria Walk., List Lep. Ins. B. M. xxii, p. 754 (1861).
 ♂ Me Song, 12.4.18, at light.

239. LUXIARIA EXCLUSA (Walk.).

Hemerophila ? exclusa Walk., List Lep. Ins. B. M. xxi, p. 320 (1860).
 ♂ Hup Bon, 29.4.14, in jungle. ♀ Bangkok (W. A. Graham).

240. ACADRA ACUTARIA (Walk.).

Macaria acutaria Walk., Char. Undescr. Het. p. 100 (1869).
 ♂ Bangkok (W. A. Graham).

241. SEMIOTHISA FASCIATA (Fabr.).

Phalaena fasciata Fabr., Syst. Ent. p. 629 (1775).
 ♂ Sriracha, 24.4.15. ♀ Me Tharn, April 1918.

242. SEMIOTHISA NORA Walk.

Macaria nora Walk., List Lep. Ins. B. M. xxiii, p. 934 (1861).
 ♀ Nong Khai Ploi, 1.5.14, in jungle.

243. SEMIOTHISA ELVIRATA Guen.

Macaria elvirata Guen., Phal. ii, p. 90 (1857).
 ♂ Ban Na Sao, Feb. 1920.

244. SEMIOTHISA PLUVIATA (Fabr.).

Macaria pluvia Fabr., Ent. Syst. Suppl. p. 456 (1798).
 Bangkok, ♂ 2.2.14, ♂ 23.2.14, ♂ 14.1.16, ♀ 15.1.16, ♂ 16.1.16,
 ♀ 27.1.16, ♀ 16.9.19, ♀ 17.9.19, ♂ Me Tharn, April 1918.

245. SEMIOTHISA FRUGALIATA Guen.

Macaria frugaliata Guen., Phal. ii, p. 78 (1857).
 ♀ Chumporn, Peninsular Siam, 7.1.16.

246. SEMIOTHISA EMERSARIA Walk.

Macaria emersaria Walk., List Lep. Ins. B. M. xxiii, p. 925 (1861).
 2 ♂♂ Bangkok, 9.2.14, 27.11.19.

247. SEMIOTHISA APATETICA sp. n.

Pl. 17, fig. 6.

♂. Palpi buff, irrorated with chocolate-brown, the 1st segment sparsely, the 2nd more thickly, the 3rd chocolate-brown above. Antennae buff and deep chocolate-brown mixed, the buff predominating at the base, decreasing towards the apex, the distal fourth almost entirely sepia. Frontal tuft buff, head and collar buff and brown mixed, thorax greyish and pale buff; abdomen greyish and buff, irrorated with brown, with 4 dark brown spots, 2 on the 2nd segment, and 2 on the 3rd segment; pectus, legs and underside of abdomen buff, tinged with yellow, and thickly irrorated with chocolate-brown; hind tibiae with a fold hiding a long hair pencil, the hairs pale buff at base, brownish in the middle, then greyish. Fore wing with the termen evenly bowed; pale buff tinged with yellowish from base to postmedial line, sparsely irrorated with brown, the costa buff and sepia mixed, tinged with yellow; greyish scales between costa and cell, from base to postmedial; antemedial line dark brown mixed with yellowish, deeply curved (concavity basad) from costa to junction of Cu₂ with cell, along cell for a short distance, then oblique to one-fifth inner margin, slightly bent basad just before inner margin, where it is paler; a dark brown spot on discocellulars; medial line yellowish, irrorated with brown, parallel with antemedial, with a shallow curve (convexity basad) between veins Cu₂ and A₂; postmedial line dark brown, preceded by a fine yellowish shade, sharply oblique outwards from two-thirds costa to just above vein M₁, then angled and roughly parallel with medial line, bowed (convexity basad); a dark brown triangular patch filling the space between the costa and the postmedial before its inward bend; costa from this dark triangle to the apex deep buff, then dark brown, then again deep buff; area from postmedial to termen silvery-greyish; a subapical white spot between veins R₅ and M₁; from postmedial to termen

between veins M_1 and M_3 a brownish shade, extending near the termen just over M_1 ; a dark brown spot between veins M_3 and Cu_1 ; a narrow drab shade finely edged with dark brown along the postmedial from vein Cu_1 to inner margin; beyond this an irregular patch of drab and dark brown scales, broadest just above A_2 ; a broad pale pinkish-buff patch just before the termen, from M_3 to A_2 , sparsely irrorated with brown; a dark brown waved terminal line, thickened interneurally; fringe shaded with greyish-brown from apex to vein M_3 , pale pinkish-buff to tornus. Hind wing coloured as fore wing; a small patch of greyish-brown scales near base; a waved medial line from middle of costa to middle of inner margin; a dark brown spot on the discocellulars; an almost straight dark brown postmedial line, edged with an olive-drab line outwardly irrorated with dark brown; area beyond postmedial above medial fold divided into four—a narrow silvery-grey strip, then olive-drab narrow from costa and broad towards medial fold (the broad part heavily splashed with dark brown), followed by a narrow waved silvery-grey strip, then a broad olive-drab patch before the termen, sparsely irrorated with dark brown, and extending just below the medial fold at the termen; a dark brown tri-lobed mark just beyond the postmedial, outlined with olive-drab, a small fusiform lobe above vein M_3 , a larger ovate lobe between veins M_3 and Cu_1 , and a small irregular lobe pointing towards the tornus, its olive-drab outline continued as a single waved line to the inner margin just before the tornus; a large pale pinkish-buff triangular patch before the termen, from just below medial fold to near tornus, irrorated with dark brown; terminal line strong, waved, dark brown, thickening interneurally; fringe olive-drab from apex to vein M_3 , pale buff with two faint greyish lines through middle from M_3 to tornus, deeper olive-drab at vein ends. Fore wing beneath as on upper side, but with the area beyond the postmedial dark hair-brown, except for a deep yellowish to ferruginous patch at costa just beyond the postmedial, followed by a large apical yellowish-white patch, and a large yellowish-white patch before the termen between veins M_2 and A_2 ; lines and irroration dark hair-brown; veins tinged with deep buff; area below A_2 to inner margin, and up to postmedial without irrorations; costal margin broadly deep buff; fringe as on upper side but darker; hind wing beneath as on upper side, but lacking the tri-lobed mark; medial line and a spot on the discocellulars dark brown; area beyond the postmedial dark hair-brown, with a yellowish-white subapical mark splashed with dark brown, and with a large yellowish-white triangular terminal patch between the medial fold and vein A_2 ; terminal line and fringe darker than on upper side. Exp. 30-32 mm.

Holotype ♂: Me Sai Song, Prae, N. Siam, April 1918.

Paratype ♂: Ban Manao, Feb. 1920.

248. HYPOCROSIS LYCORARIA Guen.

Hypocrosis lycoraria Guen., Phal. ii, p. 538 (1857).
♂ Bandon, Sept. 1918.

249. HYPOCROSIS PYRRHULARIA (Guen.).

Achrosis pyrrhularia Guen., Phal. ii, p. 539 (1857).
♂ Sriracha, 20.9.14, at light.

250. FASCELLINA CHROMATARIA Walk.

Fascellina chromataria Walk., List Lep. Ins. B. M. xx, p. 215 (1860).
♂ Me Song, 30.4.18.

251. FASCELLINA CLAUSARIA Walk.

Fascellina clausaria Walk., List Lep. Ins. B.M. xxxv, p. 1556 (1866).
♂ no data.

252. XEROPTERYX COLUMBICOLA (Walk.).

Urapteryx columbicola Walk., List Lep. Ins. B. M. xx, p. 11 (1860).
2 ♂ ♂ Me Lem, April, 1916. 2 ♂ ♂ Me Tharn, April 1918.

253. PETELIA MEDARDARIA H.-Sch.

Petelia medardaria H.-Sch., Samml. aussereur. Schmett., p. 54 & index, fig. 534 (1856).
♂ Pak Jong, 4.1.16. ♀ Sriracha, 27.4.16.

254. DULIOPHYLE HYMENARIA (Guen.).

Elphos hymenaria Guen., Phal. i, p. 285, pl. 16, fig. 4 (1857).
♀ Bangkok (W. A. Graham).

255. BUZURIA SUPPRESSARIA (Guen.).

Amphidasys suppressaria Guen., Phal. i, p. 210 (1857).
4 ♀ ♀ Ban Nahan, Feb. 1920.

256. BOARMIA ACACIARIA Boisd.

Boarmia acaciaria Boisd., Faun. Ent. Madag. Lep. p. 116, pl. 16,
fig. 4 (1833).
♂ Me Song, 21.4.16. ♂, ♀ Bangkok, 7.6.15, 19.11.19.

257. BOARMIA TRISPINARIA Walk.

Boarmia trispinaria Walk., List Lep. Ins. B. M. xxi, p. 378 (1860).
♂ Me Tharn, April 1918.

258. ECTROPIS BHURMITRA (Walk.).
Boarmia bhurmitra Walk., List Lep. Ins. B. M. xxi, p. 381 (1860).
♂ Pak Jong, 4.1.16.
259. ECTROPIS BOARMIARIA (Guen.).
Hypochroma boarmiaria Guen., Phal. i, p. 282 (1857).
♂ Me Song, 16.4.18.
260. ABRAXAS LEOPARDINA (Koll.).
Zerene leopardina Koll., Hügel's Kaschmir, iv, p. 490 (1844).
♀ Me Song, 16.4.16.
261. ABRAXAS TRISERIARIA H.-Sch.
Abraixas triseriaria H.-Sch., Samml. aussereur. Schmett., p. 65 & index, fig 322 (1858).
♂ Me Sai Song, April 1918.
262. GENUSA BIGUTTA Walk.
Genusa bigutta Walk., List Lep. Ins. B. M. iv, p. 818 (1855).
♂ Khanduli, Sept. 1918. ♂ Ban Na Sao, Feb. 1920.

LARENTIINAE.

263. SAURIS HIRUDINATA Guen.
Sauris hirudinata Guen., Phal. ii, p. 362 (1857).
♀ Bangkok, 17.9.19.

ACIDALIINAE.

264. MNESITHETIS MUNDISSIMA (Walk.).
Acidalia ? mundissima Walk., List Lep. Ins. B. M. xxiii, p. 795 (1861).
♀ Bangkok, 20.1.16.
265. NOBILIA ANTHOPHILATA (Guen.).
Somatina anthophilata Guen., Phal. ii, p. 11, pl. 18, fig. 2 (1857).
♂ Chumporn, 10.1.16.
266. PROBLEPSIS APPOLLINARIA (Guen.).
Argyris appollinaria Guen., Phal. ii, p. 13 (1857).
♂ Muak Lek, 11.7.14.
267. LYCAUGE EMISSARIA (Walk.).
Acidalia emissaria Walk., List Lep. Ins. B. M. xxii, p. 751 (1861).
2 ♀ ♀ Bangkok, 21.1.16, 27.1.16.

268. SCOPULA CAESARIA (Walk.).

Acidalia caesaria Walk., List Lep. Ins. B. M. xxii, p. 750 (1861).
 ♂ Chumporn, Jan. 1916.

HEMITHEINAE.

269. IODIS OPALARIA Guen.

Iodis opalaria Guen., Phal. i, p. 357 (1857).
 ♂ Siam.

270. ERETMOPUS DEPULSATA (Walk.).

Thalassodes depulsata Walk., List Lep. Ins. B. M. xxii, p. 555 (1861).
 ♀ Bangkok, 27.11.19.

271. SPANIOCENTRA PANNOSA (Moore).

Comibaena pannosa Moore, Lep. Ceylon iii, p. 433, pl. 195, figs.
 1, 1a, 1b (1887).
 ♂ Bangkok, 12.2.14.

272. APORANDRIA SPECULARIA (Guen.).

Geometra specularia Guen., Phal. i, p. 342 (1857).
 ♀ Bangkok, 30.1.16.

273. ORNITHOSPILA SUBMONSTRANS (Walk.).

Geometra submonstrans Walk. List Lep. Ins. B.M. xxii, p. 526 (1861).
 ♂ Bangkok, 20.10.19.

274. AGATHIA ARCUATA Moore.

Agathia arcuata Moore, Pr. Zool. Soc. Lond. 1867, p. 640.
 ♀ Bangkok, 26.10.19.

275. DYSPHANIA BELLONA (Walk.).

Euschema bellona Walk., List Lep. Ins. B. M. ii, p. 405 (1854).
 ♂ Pan Yao, Feb. 1920 (Major C. H. Stockley).

276. DYSPHANIA MINERVARIA (Guen.).

Hazis minervaria Guen., Phal. ii, p. 190 (1857).
 ♂, ♀ Me Tharn, April 1918. ♀ Me Lam Pong, April 1918.

277. DYSPHANIA LATIGRSEA Prout.

Dysphania minervaria subsp. *latigrisea* Prout, Nov. Zool. xxiii, p.
 195 (1916).
 ♀ Me Tharn, April 1918. ♀ Hup Bon, 10.5.14.

278. DYSPHANIA TRANSDUCTA (Walk.).

Euschemma transducta Walk., Journ. Linn. Soc. Lond. (Zool.) vi, p. 94 (1861).
 ♀ Chumporn, Jan. 1914.

279. DYSPHANIA MILITARIS (Linn.).

Phalaena Bombyx militaris Linn., Syst. Nat. ed. x, p. 505 (1758).
 ♂ Klong Sam, Bangkok, 19.2.14, ♀ 14.2.14. ♂ Ban Nahan, Feb. 1920. ♂ Sriracha, Sept. 1914. 3 ♂ ♂, ♀ Me Tharn, April 1918.

280. PINGASA CHLORA (Stoll.).

Phalaena Pyralis chloris Stoll., Pap. Exot. iv, p. 233 & index, pl. 398, fig. C (1782).
 ♀ Sriracha, 21.9.14.

OENOCHROMINAE.

281. CELERENA SIAMICA Swinh.

Celerena siamica Swinh., A.M.N.H. (7) xi, p. 510 (1903).
 ♂ Me Song, 16.4.16. ♀ Me Tharn, April 1918.

282. ALEX PALPARIA (Walk.).

Panagra palparia Walk., List Lep. Ins. B. M. xxiii, p. 988 (1861).
 ♀ Bangkok (W. A. Graham).

283. EUMELEA ROSALIA (Stoll.).

Phalaena Geometra rosalia Stoll., Pap. Exot. iv, p. 152 & index, pl. 368, fig. F (1781).
 ♂ Hup Bon, 24.4.15. ♂ Me Lem, April 1918.

284. EUMELEA AURELIATA Guen.

Eumelea aureliata Guen., Phal. i, p. 394 (1857).
 ♂ Me Sai Song, April 1918.

285. ABRAXAPHANTES PERAMPLA (Swinh.).

Abraxas perampla Swinh., Tr. Ent. Soc. Lond. 1890, p. 211.
 ♀ Me Song, 16.4.16. ♀ Me Tharn, April 1918.
 ♀ Thaungyin R., Feb. 1920 (Major C. H. Stockley).

SATURNIIDAE.

286. SATURNIA CACHARA (Moore).

Caligula cachara Moore, Pr. Zool. Soc. Lond. 1872, p. 578.
 ♀ Ta-ok Plateau, Feb. 1920 (Major C. H. Stockley).

287. ATTACUS ATLAS (Linn.).

Phalaena Bombyx atlas Linn., Syst. Nat. ed. x, p. 495 (1758).
 ♀ Bangkok, 10.2.20.

288. ANTHERAEA PAPHIA (Linn.).

Phalaena Bombyx paphia Linn., Syst. Nat. ed. x, p. 499 (1758).
 ♂ Bangnara (W. A. Graham).

BOMBYCIDAE.

289. TRILOCHA VARIANS (Walk.).

Naprepa varians Walk., List Lep. Ins. B. M. v, p. 1153 (1856).
 ♂ Pak Jong, 4.1.16.

URANIIDAE.

290. LYSSIDIA DOCILE (Butl.).

Nyctalemon docile Butl., Tr. Linn. Soc. Lond. (2, Zool.) i, p. 562 (1879).
 ♂, no data.

291. ACROPTERIS SPARSARIA (Walk.).

Micronia sparsaria Walk., List Lep. Ins. B.M. xxiii, p. 818 (1861).
 ♂, ♀ Nong Yai Boo, 7.4.14.

292. ACROPTERIS GRAMMEARIA Hüb.-Geyer.

Acropteris grammearia Hüb.-Geyer, Samml. exot. Schmett. Zutr. iv, no. 381, p. 36, figs. 761, 762 (1832).
 ♂ Me Tharn, April 1918.

293. ACROPTERIS OBLIQUARIA (Moore).

Micronia obliquaria Moore, Pr. Zool. Soc. Lond. 1877, p. 622, pl. 60, fig. 17.
 2 ♀ ♀ Bangkok, 3.2.14.

294. ACROPTERIS IPHIATA (Guen.).

Micronia iphiata Guen., Phal. ii, p. 29 (1857).
 ♂ Hup Bon, 6.5.15.

295. STROPHIDIA FASCIATA (Cram.).

Phalaena Geometra fasciata Cram., Pap. Exot. ii, p. 12 & index, pl. 104, fig. D (1777).
 ♂ Hup Bon, 26.4.15. ♀ Me Tharn, April 1918.

296. PSEUDOMICRONIA ACULEATA (Guen.).

Micronia aculeata Guen., Phal. ii, p. 26, pl. 13, fig. 8 (1857).
♂ Me Song, April 1916. ♂ Me Chow, April 1918.

297. DECETIA SUBFLAVATA (Warr.).

Aoratsema subflavata Warr., Nov. Zool. v, p. 227 (1898).
♂ Hup Bon, 24.4.15.

298. DECETIA BILINEATA Hmpsn.

Decetia bilineata Hmpsn., Moths Ind. iii, p. 123 (1895).
♂ Me Lem, April 1918.

ARBELIDAE.

299. ARBELA DISCIPLAGA Swinh.

Arbela discipлага Swinh., A. M. N. H. (7) vii, p. 469 (1901).
♀ Bangkok, 31.3.16, at light.

300. ARBELA PHAGA Swinh.

Arbela phaga Swinh., A. M. N. H. (6) xiv, p. 440 (1894); figured
Swinh., Tr. Ent. Soc. Lond. 1895, p. 29, pl. 1, fig. 2.
2 ♀ ♀ Bangkok, 27.10.19, 21.11.19.

COSSIDAE.

301. ZEUZERA COFFEAE Nietn.

Zeuzera coffeeae Nietn., Edin. New Phil. Journ. xv, p. 36 (1862).
2 ♂ ♂ Bangkok, 7.3.16, 7.8.16. ♀ Bangkok, 30.11.14.

302. AZYGOPHLEPS SCALARIS (Fabr.).

Hepialus scalaris Fabr., Syst. Ent. p. 590 (1775).
♂ Chumporn, 10.1.16.

303. XYLEUTES LEUCONOTUS (Walk.).

Zeuzera leuconotus Walk., List Lep. Ins. B. M. vii, p. 1537 (1856).
♂ no data. ♀ Bangkok, 13.3.15 (H. R. H. the Prince of
Chumporn).

PSYCHIDAE.

304. AMATISSA LEONINA sp. n.

Pl. 17, fig. 8.

♂ Palpi, shafts of antennae, head, thorax and abdomen
tawny-olive; antennal bipectinations 28, chestnut; pectus, legs and
abdomen beneath tawny-olive. Fore wing tawny-olive, discocel-
lulars and bases of median veins shaded with dark brown, heaviest
at M₂; fringe greyish-brown. Hind wing drab, fringe lighter. Un-

derside of both wings bistre, costal margin in each case tawny-olive, fringes concolorous. Exp. 28 mm.

Holotype ♂ : Bangkok, 27.1.16.

Paratype ♂ : Bangkok, 8.3.16, at light.

Since describing this species, I have had the opportunity of examining, through the kindness of Professor E. B. Poulton, F. R. S., the type of *Amatissa inornata* Walk. I think that *A. leonina* may prove to be a subspecies of *A. inornata*, when more material of both forms is available for investigation. *Bambalina consortus* Templeron is a distinct species.

LASIOCAMPIDAE.

305. ESTIGENA PARDALE (Walk.).

Megasoma pardale Walk., List Lep. Ins. B. M. vi, p. 1453 (1856).
2 ♂ ♂, 2 ♀ ♀ Bangkok, 2.11.15, 12.6.16, 15.2.15, 22.2.16.

306. SUANA CONCOLOR (Walk.).

Lebeda concolor Walk., List Lep. Ins. B. M. vi, p. 1463 (1856).
♂ Bangkok (W. A. Graham). ♂, ♀ Bangkok, 16.10.19, 7.2.15.

307. ODONESTIS ERECTILINEA (Swinh.).

Arguda erectilinea Swinh., Tr. Ent. Soc. Lond. 1904 (April 27), p. 152.

♂ Pak Jong, 31.12.15. ♀ Bangkok (W. A. Graham).

On investigation I find that this species does not belong to the genus *Arguda*, but to *Odonestis* Germar, type *pruni* Linn.

308. ODONESTIS VITA Moore.

Odonestis vita Moore, Cat. Lep. E. Ind. Co. ii, p. 424, pl. 12a, fig. 4 (1859).
♂ Bangkok, 15.9.19.

309. TRABALA VISHNOU (Lef.).

Gastropacha vishnou Lef., Zool. Journ. iii, p. 207 (1827).
♂, 3 ♀ ♀ Bangkok, 7.8.15, 10.1.15, 7.8.15, Nov. 1919.

310. METANASTRIA FASCIATA (Moore).

Lebeda fasciata Moore, Tr. Ent. Soc. Lond. 1884, p. 375.
♂ Bangkok (W. A. Graham).

311. TARAGAMA DORSALIS (Walk.).

Megasoma dorsalis Walk., List Lep. Ins. B. M. xxxv, p. 1947 (1866).
♂ Bangkok (W. A. Graham). ♂, ♀ Bangkok, 8.3.16, 12.10.19.

LIMACODIDAE.

312. THOSEA SINENSIS (Walk.).

Anzabe sinensis Walk., List Lep. Ins. B. M. v, p. 1093 (1856).
2 ♀ ♀ Bangkok, 13.7.14, 17.9.19.

313. THOSEA RARA Swinh.

Thosea rara Swinh., Pr. Zool. Soc. Lond. 1889, p. 408, pl. 43, fig. 9.
♂ Chumporn, 7.1.16.

314. PARASA LEPIDA (Cram.).

Phalaena Noctua lepida Cram., Pap. Exot. ii, p. 50 & index,
pl. 130, fig. E (1777).
♂, ♀ Bangkok, 14.9.19, 25.1.15.

315. NAROSA LACTEOLA Swinh.

Narosa lacteola Swinh., Tr. Ent. Soc. Lond. 1890, p. 193.
2 ♀ ♀ Chumporn, 6.1.16.

316. CANIA SIAMENSIS sp. n.

Pl. 17, fig. 14.

♀. Palpi, antennae, head and thorax tawny-ochraceous, the thorax tinged with ferruginous; abdomen deep buff-yellow; pectus in front and fore legs tawny-ochraceous; pectus behind, mid and hind legs orange-buff; abdomen beneath deep buff-yellow. Fore wing tawny-ochraceous, tinged from base to middle and along inner margin with ferruginous; an indistinct orange-ochraceous subterminal line almost parallel with termen from costa to vein Cu₂, thence gradually nearing the termen, but meeting the inner margin before the tornus; fringe ochraceous-buff, the basal row of scales pale orange-ochraceous. Hind wing entirely deep buff-yellow, slightly paler at base and outer edge of fringe. Underside of fore and hind wings deep buff-yellow, fore wing darker at costa and termen, pale below cell and Cu₂. Exp. 42 mm.

Holotype ♀: Chumporn, 3.1.16.

This species (♀) has the termen curved as in *C. bilinea* Walk. but even more oblique.

317. ORTHOCRASPEDA LUTICRISTA sp. n.

Pl. 17, fig. 7.

♂. Palpi pale pinkish-buff, outer side irrorated with brown; antennae pale yellowish; head whitish irrorated with brown; thorax pale pinkish-buff, irrorated with drab, shaded with drab posteriorly, the metathoracic crest deep buff; abdomen pale pinkish-buff, lightly

irrorated with brown, with a crest of deep buff and brown mixed; anal tuft buff; pectus, legs and underside of abdomen pale pinkish-buff, the mid tibiae with long tufts of scales irrorated with brown on outer side, and a long tuft of silky hair on the inner side, buff at base shaded with brownish towards middle, and with the distal half opalescent. Fore wing wood-brown irrorated with darker brown, cell area darker brown, the area below the cell for basal two-thirds tawny-ochraceous; a sepia spot on the discocellular below upper angle of cell, another above lower angle of cell; three sepia spots near termen, one just below R_2 , one just below R_3 , the third just below M_1 ; fringe wood-brown, irrorated with darker brown. Hind wing entirely brownish-grey, fringe lighter. Underside of both wings pinkish-buff, lightly irrorated with brownish, the hind wing with darker brown irroration beyond the end of the cell above M_1 . Exp. 21 mm.

Holotype ♂ : Bangkok, 9.3.16.

ZYGAENIDAE.

CHALCOSIINAE.

318. ISBARTA BINGHAMI (Butl.).

Epyrgis binghami Butl., A. M. N. H. (5) x, p. 374 (1882).
 ♂, ♀ Me Song, 29.4.16, 1.5.16. ♂ Me Tharn, April 1918.

319. ISBARTA IMITANS (Butl.).

Epyrgis imitans Butl., Ill. Het. B. M. v, p. 24, pl. 84, fig. 1 (1881).
 ♂ Nong Yai Boo, 12.4.14. ♂ Me Lem, April 1918.
 ♂ Me Sai Song, April 1918. ♂ Khanduli, Sept. 1918.
 ♂ Ban Manao, Feb 1920.

320. CALLAMESIA MIDAMA (H.-Sch.).

Epyrgis midama (Bdv. MS.) H.-Sch., Samml. aussereur. Schmett.
 Het., pl. 2, fig. 7 & expl. pl. (1853); p. 57 & index (1858).
 ♂ Me Chow, April 1918. 2 ♀ ♀ Me Tharn, April 1918.
 ♂ Me Song, 29.4.16.

321. HISTIA COMETARIS Butl.

Histia cometaris Butl., A. M. N. H. (5) x, p. 374 (1882).
Histia albimacula Hmpsn., Moths Ind. i, p. 280 (1892).
 ♂ Me Song, 13.4.16. 2 ♂ ♂ Me Sai Song, April 1918.
 2 ♂ ♂ Me Chow, April 1918. ♂ Me Lem, April 1918.
 4 ♀ ♀ Me Tharn, April 1918.

I have so far been unable to find any difference between Hampson's *albimacula* and *cometaris* Butl., and have, after examining the male genitalia, here sunk *albimacula*.

322. GYNAUTOCERA PAPILIONARIA Guér.

Gynautocera papilionaria Guér., Mag. Zool. 1831, p. 12, pl. 12.
 ♂ Me Tharn, Prae, N. Siam, April 1918, flying in open jungle.

323. PINTIA PAPILIONARIS (Drury).

Phalaena papilionaris Drury, Ill. Exot. Ins. ii, p. 4 & index,
 pl. 2, fig. 4 (1773).
 Nong Khai Ploi, 1.5.15. ♂ Me Song, 15.4.18.
 ♂ Me Lem, April 1918. ♀ Sriracha, 20.4.15.
 2 ♀ ♀ Me Sai Song, April 1918. ♀ Me Lam Pong, April 1918.
 3 ♀ ♀ Me Tharn, April 1918.

324. CORMA ZELICA (Doubl.).

Gynautocera zelica Doubl., A. M. N. H. (1) xix, p. 76, pl. 7,
 fig. 3 (1847).
 ♀ Hup Bon, S. E. Siam, 30.4.14,
 ♀ Me Taw, N. Siam, Feb. 1920 (Major C. H. Stockley).

325. CORMA ZENOTIA (Doubl.).

Gynautocera zenotia Doubl., A. M. N. H. (1) xix, p. 77, pl. 7,
 fig. 2 (1847).
 ♂ Me Sai Song, April 1918.

326. CYCLOSIA ADALIFA (Doubl.).

Gynautocera adalifa Doubl., A. M. N. H. (1) xix, p. 76 (1847).
 ♀ Hup Bon, 26.4.14.

327. AMESIA NAMOUNA (Doubl.).

Gynautocera namouna Doubl., A. M. N. H. (1) xix, p. 73 (1847).
 ♀ Hup Bon, 10.4.14.

328. CHALCOSIA ANNAMITICA Jord.

Chalcosia phalaenaria annamitica Jord., Seitz Gross-schmett. Ind.-
 Austr. Bd. x, p. 38, pl. 7, row c (1908).
 ♂ Thaungyin R., N. Siam, Feb. 1920 (Major C. H. Stockley).
 ♂ Me Tharn April 1918.

329. PIDORUS GEMINA (Walk.).

Laurion gemina Walk., List Lep. Ins. B. M. ii, p. 427 (1854).
 ♂, ♀ Ban Na Sao, Feb. 1920.

330. ETERUSIA REPLETA Walk.

Eterusia repleta Walk., List Lep. Ins. B. M. xxxi, p. 118 (1864).
Eterusia alompra Moore, Descr. Ind. Lep. Ins. Coll. Atk. p. 16
 (1879).
 ♀ Me Lem, 30.4.18.

DREPANIDAE.

331. CYCLIDIA SUBSTIGMARIA Hübn.

Cyclidia substigmaria Hübn., Samml. exot. Schmett. Zutr. iii, no. 260, p. 29, figs. 519,520 (1825).

3 ♂ ♂ Me Lem, April 1918. ♂ Me Tharn, April 1918.
♀ Me Song, 22.4.16.

CALLIDULIDAE.

332. CLEOSIRIS CATAMITUS (Hübn.-Geyer).

Tetragonus catamitus Hübn.-Geyer, Samml. exot. Schmett. iv, no. 327, p. 17, figs. 653,654 (1832).

5 specimens (sex ?): Muak Lek, 10.7.14; Me Tharn, April 1918 (2); Me Chow, April 1918; Me Sai Song, April 1918.

333. CALLIDULA ABISARA Butl.

Callidula abisara Butl., Tr. Linn. Soc. Lond. (2) i, p. 558 (1879).
♂ Me Song, 30.4.18.

334. CALLIDULA MINOR (Moore).

Datanga minor Moore, Lep. Atk., p. 21 (1879).
2 ♂ ♂ Me Sai Song, April 1918. ♂ Me Lam Pong, April 1918.

THYRIDIDAE.

335. STRIGLINA SCITARIA (Walk.).

Drepanodes ? scitaria Walk., List Lep. Ins. B. M. xxvi, p. 1488 (1862).

2 ♂ ♂ Bangkok, 3.11.15, 2.1.20. ♀ Bangkok, 1.3.16, at light.

336. STRIGLINA GLAREOLA (Feld.).

Siculodes ? glareola Feld., Reise Nov. Lep. Het. pl. 134, fig. 11 (1875).
♀ Sriracha, 12.4.16.

337. BRIXIA ARGENTALIS (Walk.).

Pyralis argentalis Walk., List Lep. Ins. B. M. xxxiv, p. 1522 (1865).
♀ Sriracha, 10.4.14, in open jungle.

PYRALIDAE.

GALLERIINAE.

338. TIRATHABA MUNDELLA Walk.

Tirathaba mundella Walk., List Lep. Ins. B. M. xxx, p. 961 (1864).
♂ Bangkok, 4. 11.19.

CRAMBINAE.

339. DIATRAEA TORRENTELLUS (Meyr.).

Crambus torrentellus Meyr., Pr. Linn. Soc. N. S. W. iii, p. 184 (1879).
 ♂ Chumporn, Jan. 1916.

SCHOENOBIINAЕ.

340. SCHOENOBIUS INCERTELLUS (Walk.).

Chilo incertulas Walk., List Lep. Ins. B. M. xxvii, p. 143 (1863).
Chilo incertellus Walk., List Lep. Ins. B. M. xxvii, index (1863).
 ♂, ♀ Bangkok, 16.1.16, 15.1.16. ♀ no data.

341. SCHOENOBIUS DODATELLA (Walk.).

Chilo dodatella Walk., List Lep. Ins. B. M. xxx, p. 966 (1864).
 ♂, ♀ Chumporn, 9.1.16, 8.1.16 (H. R. H. the Prince of Chum-
 porn). ♀ Bangkok, 26.11.19.

EPIPASCHIINAE.

342. ORTHAGA ICARUSALIS (Walk.).

Edeta icarusalis Walk., List Lep. Ins. B. M. xvi, p. 199 (1858).
 ♀ Bangkok, 20.11.14.

PYRALINAE.

343. BOSTRA INDICATOR (Walk.).

Arippara indicator Walk., Journ. Linn. Soc. Lond. vii, p. 74 (1863).
 ♀ Bangkok, 16.1.16. at light.

HYDROCAMPINAE.

344. NYMPHULA RESPONSALIS (Walk.).

Diasemia responsalis Walk., List Lep. Ins. B. M. xxxiv, p. 1326
 (1865).
 ♂, ♀ Bangkok, 27.1.16, 19.1.16.

345. NYMPHULA FLUCTUOSALIS Zell.

Nymphula fluctuosalis Zell., Lep. Caffr. p. 27 (1852).
 ♀ Bangkok.

PYRAUSTINAE.

346. SUFETULA SUNIDESALIS Walk.

Sufetula sunidesalis Walk., List Lep. Ins. B. M. xix, p. 947 (1859).
 ♂ Bangkok, 21.1.16.

I have referred this single ♂ specimen to this species, because although I am not certain that it agrees exactly with the type, which

I was unable to examine, I suspect that it may turn out to be a subspecies of *sunidesalis* Walk. The material in the British Museum collection is, however, so poor, and so mixed, and the number of males so small that I could attempt no further investigation, but have thought it better to record the fact that the genus *Sufetula* was represented in Siam by either *sunidesalis*, or possibly some form of it.

347. PYCNARMON MERITALIS (Walk.).

Zebronia ? meritalis Walk., List Lep. Ins. B. M. xvii, p. 479 (1859).

♂ Bangkok, Mar. 1920. ♀ no data.

348. HYMENIA FASCIALIS (Stoll.).

Phalaena Pyralis fascialis Stoll., Pap. Exot. iv, p. 236 & index, pl. 398, fig. O (1782).

♀ Bangkok. 17.3.14.

349. MARASMIA MEDINALIS (Guen.).

Salbia medicinalis Guen., Delt. and Pyr. p. 201 (1854).

♂ Bangkok, Dec. 1919.

350. MARASMIA BILINEALIS (Hmpsn.).

Dolichosticha bilinealis (Warren MS.) Hmpsn., Ill. Het. B. M. viii, p. 139, pl. 155, fig. 25 (1891).

♀ Bangkok, 20.2.15.

351. FIODES FULVIDORSALIS (Hübn.-Geyer).

Pinacia fulvidorsalis Hübn.-Geyer, Samml. exot. Schmett. Zutr. iv, no. 322, p. 15, figs. 643, 644 (1832).

♂ Sriracha, 30.4.16.

352. PARAPOYNX PROCOPIA (Stoll.).

Phalaena Pyralis procopia Stoll., Pap. Exot. iv, p. 152 & index, pl. 368, fig. E (1781).

♂ Pak Jong, E. Siam, 31.12.15.

353. PHOSTRIA LEUCOGASTER (Hmpsn.).

Phryganodes leucogaster Hmpsn., A.M.N.H. (8) ix, p. 329 (1912).

♂ Bangkok, 7.1.16, at light.

354. PHOSTRIA UNITALIS (Guen.).

Botys unitalis Guen., Delt. and Pyr. p. 349 (1854).

♂ Me Lem, April 1918. ♀ Sriracha, 25.4.15.

355. LAMPROSEMA INSOLITALIS (Walk.).

Astura insolitalis Walk., Tr. Ent. Soc. Lond. (3) i, p. 125 (1863).
 ♂ Bangkok, 8.1.16.

356. BOTYODES ASIALIS Guen.

Botyodes asialis Guen., Delt. and Pyr. p. 321 (1854).
 ♂, ♀ Bangkok, 12.9.19, 13.9.19. ♀ Me Sai Song, April 1918.

357. BOTYODES FLAVIBASALIS Moore.

Botyodes flavibasalis Moore, Pr. Zool. Soc. Lond. 1867, p. 96.
 ♂ Pak Jong, 3.1.15.

358. SYLEPTA ALBITORQUATA sp. n.

Pl. 17 fig. 9.

♂. Palpi, head, thorax and abdomen sepia, abdomen at base greyish, anal tuft buff; pectus immediately behind head silvery-white, then sepia followed by smoke-grey; underside of abdomen buff; legs sepia, bronzed. Fore wing sepia, with a bronze gloss, and some dark purplish shading near base; an obscure dark purplish antemedial line bowed outward; a dark purplish spot in the cell at two-thirds, another on the discocellulars; a diffuse dark purplish postmedial line, vertical from costa to vein M_3 , inwardly oblique to vein Cu_2 , sharply bent basad to just below end of cell, then inwardly oblique to inner margin; fringe with a fine pale line at base, then deep sepia, greyish-brown tipped. Hind wing as fore wing; a dark purplish spot on discocellulars; a dark purplish postmedial line curved below costa (concavity terminad), then parallel with termen from vein M_3 to vein Cu_2 , then inwardly oblique to inner margin. Underside as upperside, markings more obscure. Exp. 31 mm.

Holotype: ♂ Bangkok, 13.12.15.

This species is apparently close to *cohaesalis* Walk. The series in the British Museum is mixed, and there are only two specimens with the pectus silvery-white in front. These are from New Guinea. Walker's type came from Sula, and is in the Hope Museum at Oxford. Sir George Hampson has sunk *halurga* Meyr. to *cohaesalis* Walk., but Meyrick's species has the whole of the pectus silvery-white, the legs yellowish-white, and very little trace of the purplish reflections, and more nearly resembles *crotoralis* Walk., so much so that two specimens obviously nearer *halurga* Meyr. than to the type of *crotoralis* have been placed in the *crotoralis* series. No definite conclusion can be reached, however, until the type of *cohaesalis* Walk. can be examined.

S. albitorquata has the base of the antennal shaft more modified than in any of the closely related species that I have been able to examine. The base of the antennal shaft is very deeply

scooped out, leaving the outer wall very thin, and in front are two small curved spatulate processes, their extremities crossed, one arising from the outer side, the other from the inner side of the shaft in front.

359. SYLEPTA DEROGATA (Fabr.).

Phalaena derogata Fabr., Syst. Ent. p. 641 (1775).
♂ Sriracha 14.4.14. ♀ Chumporn, 1.1.16.

360. AGATHODES OSTENTALIS (Hüb.-Geyer).

Perinephela ostentalis Hüb.-Geyer, Samml. exot. Schmett. Zutr. v, no. 417, p. 11, figs. 833,834 (1837).
♀ Bangkok, 12.2.14.

361. MARGARONIA LATICOStALIS (Guen.).

Margarodes laticostalis Guen., Delt. and Pyr. p. 303 (1854).
♂ Muak Lek, 10.7.14. ♀ Sriracha, 15.4.14.

362. MARGARONIA NEGATALIS (Walk.).

Phalangiodes? negatalis Walk., List Lep. Ins. B. M. xvii, p. 468 (1859).
♂ Bangkok, 8.3.16.

363. MARGARONIA MARGINATA (Hmpsnn.).

Cenocnemis marginata Hmpsnn., Ill. Het. B.M. ix, p. 169, pl. 173, fig. 23 (1893).
♂ Me Song, 15.4.16.

364. MARGARONIA INDICA (Saund.).

Eudioptes indica Saund., Tr. Ent. Soc. Lond. 1851, p. 163, pl. 12, figs. 5-7.
2 ♀ ♀ Bangkok, 12.2.14, 14.1.16.

365. MARGARONIA CONCLUSALIS (Walk.).

Glyphodes conclusalis Walk., List Lep. Ins. B.M. xxxiv, p.1354(1865).
♀ Bangkok, 15.1.16.

366. MARGARONIA BIVITRALIS (Guen.).

Glyphodes bivitralis Guen., Delt. and Pyr. p. 293 (1854).
♂ , ♀ Bangkok, 9.12.15, 30.11.14. ♂ Me Lem, April 1918.

367. PHLYCTAENIA TYRES (Cram.).

Phalaena Ruralis tyres Cram., Pap. Exot. iii, p. 124 & index, pl. 263, fig., C (1779).
♀ Nong Yai Boo, 7.4.14.

368. HEORTIA VITESSOIDES (Moore).

Tyspana vitessoides Moore, Lep. Ceylon iii, p. 256, pl. 178, figs. 3, 3a (1885).
 ♀ Bangkok (W. A. Graham).

369. NAUSINOË PERSPICATA (Fabr.).

Phalaena perspicata Fabr., Mant. Ins. ii, p. 213 (1787).
 ♂ Pak Jong, 3.1.16.

370. EPIPAGIS CANCELLALIS (Zell.).

Botys cancellalis Zell., Lep. Caffr. p. 34 (1852).
 2 ♀ ♀ Bangkok, 20.2.14, 20.2.15.

371. MEROCTENA TULLALIS (Walk.).

Botys tullalis Walk., List Lep. Ins. B.M. xviii, p. 649 (1859).
 ♂ Me Song, 24.4.18.

372. TERASTIA METICULOSALIS Guen.

Terastia meticulosalis Guen., Delt. and Pyr. p. 212 (1854).
 ♀ Bangkok, 23.2.14, at light.

373. OMPHISA ANASTOMOSALIS (Guen.).

Pionea? anastomosalis Guen., Delt. and Pyr. p. 373 (1854).
 ♂, ♀ Bangkok, 3.2.16, 5.2.19. ♀ Nong Khai Ploi, 1.5.14.

374. CROCIDOPHORA HABISALIS (Walk.).

Botys habialis Walk., List Lep. Ins. B.M. xviii, p. 702 (1859).
 ♀, no data.

375. MARUCA TESTULALIS (Hübn.-Geyer).

Crochiphora testulalis Hübn.-Geyer, Samml. exot. Schmett. Zutr. iv, no. 315, p. 12, figs. 629, 630 (1832).
 ♂ Bangkok, 3.11.15.

376. TETRIDIA CALETORALIS (Walk.).

Botys caletoralis Walk., List Lep. Ins. B. M. xviii, p. 651 (1859).
 ♂ Sriracha, 12.4.16.

377. PSARA STULTALIS (Walk.).

Botys stultalis Walk., List Lep. Ins. B.M. xviii, p. 669 (1859).
 ♀ no data.

378. PSARA BIPUNCTALIS (Fabr.).

Phalaena bipunctalis Fabr., Ent. Syst. iii, 2, p. 232 (1775).
 ♂ Sriracha, 7.4.14.

379. PROOEDEMA INCISALIS (Walk.).

Botys incisalis Walk., List Lep. Ins. B. M. xxxiv, p. 1410 (1865).
♂ Nong Khai Ploi, 1.5.14.

380. PYRAUSTA SALENTIALIS (Snell.).

Botys salentialis Snell., Tijd. v. Ent. 1880, p. 207; 1883, pl. 7, fig. 1.
2 ♀ ♀ Bangkok, 13.9.19, 4.11.19.

EXPLANATION OF PLATE 17.

1. *Anisoneura inermis* Tams, sp.n., type ♂.
2. *Spilosoma ummera* Swinh., neallotype ♂.
3. *Nagia godfreyi* Tams, sp.n., type ♂.
4. *Hadennia umbrina* Tams, sp.n., type ♂.
5. *Hyblaea castanea* Tams, sp.n., type ♂.
6. *Semiothisa apatetica* Tams, sp.n., type ♂.
7. *Orthocraspeda luticerista* Tams, sp.n., type ♂.
8. *Amatissa leonina* Tams, sp.n., type ♂.
9. *Sylepta albitorquata* Tams, sp.n., type ♂.
10. *Pangrapta talusalis* Walk., neallotype ♂.
11. *Hypena allochroalis* Tams, sp.n., type ♂.
12. *Ugia sundana* Hampson, sp.n., type ♀.
13. *Anisoneura inermis* Tams, sp.n., allotype ♀.
14. *Cania siamensis* Tams, sp.n., type ♀.
15. *Nagia godfreyi* Tams, sp.n., allotype ♀.
16. *Bocana umbrina* Tams, sp.n., type ♀.
17. *Beana nitida* Tams, sp.n., type ♂.
18. *Gonoglasa campogramma* Hampson, sp.n., type ♀.

ERRATA.

Page	233	line	5	for	obilque	read	oblique.
,,	251	,,	16	,,	39	,,	38
,,	282	,,	7	read	♂	Nong	Khai Ploi

