

HESPERIA AURIFER.

Exp. 2·1 in. Above brownish black ; two spots at the end of the cell, and a row of eight running more or less parallel from the inner margin to the costa, diaphanous, that between the first and second median branches being the largest. Beneath rich dark brown, the central portion of primaries black ; the spots of the primaries as above ; a row of seven golden spots across the secondaries, one at the end of the cell, six in a linear series beyond it ; cilia of secondaries alternately black and white.

Hab. Irazu, Costa Rica (*Rogers*).

HESPERIA SAPTINE.

Exp. 2·2 in. Upperside deep brown, a large semidiaphanous yellow spot, divided into five by the nervules, crosses the middle of the wing from the costa nearly to the anal angle, the inner edge of this spot is deeply sinuated ; apical margin of secondaries narrowly bordered with yellow. Beneath rich dark brown, the band of the primaries as above, apex enclosing three dark spots pinkish brown ; outer margin, costal region, and a band crossing the wing from the middle of the abdominal margin towards the apex dark brown ; the rest, including the apex, pinkish brown. Antennæ brown above and yellow beneath.

Hab. Irazu, Costa Rica (*Rogers*).

HESPERIA SYRNA.

Exp. 2·3 in. Upper surface dark brown, paler towards the apices of the primaries ; the cell of the primaries, except the proximal end, a large trifid spot with deeply sinuated inner edge cut by the first and second median branches, a small trifid spot near the costa between the end of the cell and the apex, and three small spots between the apex and the cell of the secondaries semidiaphanous yellow. Beneath exactly as above ; antennæ wholly brown.

Hab. Irazu, Costa Rica (*Rogers*).

EXPLANATION OF PLATE XIV.

Fig. 1. *Eresia laias*, p. 151.

2. *Adelpha hypsenor*, p. 151.

3. *Pyrrhopyga ærata*, p. 152.

4. — *minthe*, p. 152.

Fig. 5. *Pyrrhopyga eupheme*, p. 152.

6. — *malis*, p. 153.

7. *Hesperia polites*, p. 154.

8. — *sacrator*, p. 154.

4. On a Collection of Diurnal Lepidoptera made by the Rev. G. Brown in New Ireland and New Britain. By F. DUCANE GODMAN, F.Z.S., and OSBERT SALVIN, F.R.S.

[Received January 29, 1879.]

(Plate XV.)

In the Proceedings of the Society for 1877 (page 139), we had the pleasure of describing the collection of Lepidoptera formed by the Rev. G. Brown in the neighbourhood of Duke-of-York Island. We now

bring before the Society the results of an examination of a second collection from the same source. Mr. Brown has carefully noted the island on which each specimen was obtained; so that we are enabled, to a considerable extent, to remedy a defect in our former communication. The whole of the present collection was formed on the large islands of New Britain and New Ireland, the majority of the specimens coming from the latter, a large portion of the collection from the former having met with a mishap. As we hope Mr. Brown will continue his explorations in this very promising field, it is perhaps premature to investigate in detail the difference between the butterfly faunas of the two islands. We may, however, say that there are indications of considerable differences between them. The total number of species sent us by Mr. Brown from these two islands now amounts to 60; there still remain several described by Dr. Boisduval from New Ireland which have not yet come to hand.

*¹ *DANAIS AUSTRALIS*, Godm. & Salv. P. Z. S. 1877, p. 141.

New Ireland.

* *DANAIS SOBRINA*, Salv. et Godm. P. Z. S. 1877, p. 141.

New Ireland.

3. *DANAIS PLEXIPPUS*, Linn. Mus. Ulr. p. 262.

New Ireland.

Several specimens, agreeing accurately with N.-American examples. On the range of this species see Mr. Distant's paper (Trans. Ent. Soc. 1877, p. 93), where he uses Cramer's name *D. archippus* for it.

4. **EUPLŒA UNIBRUNNEA*, Salv. et Godm. P. Z. S. 1877, p. 141.

New Ireland.

Mr. Brown sends us a female specimen which, besides the characteristic sexual differences, is paler than the male and has the spots on the under surface rather larger.

5. **EUPLŒA BROWNI*, Salv. et Godm. P. Z. S. 1877, p. 142.

New Britain.

A female specimen, which, except as regards the sexual distinctions, resembles the male.

6. *EUPLŒA PASITHEA*, Feld. Reis. Nov. p. 318.

New Britain.

Several examples of both sexes; they differ slightly from Ceram specimens in having all the spots on the underside smaller, and in having but a single submarginal row at the apex of the primaries.

7. *EUPLŒA ERIMAS*. (Plate XV. fig. 1.)

Euplœa erimas, Godm. et Salv. P. Z. S. 1878, p. 733.

New Ireland.

¹ An asterisk prefixed to a name denotes that the species was included in our former paper.

8. **EUPLŒA TREITSCHKII*, Boisd. Voy. Astr. Ent. p. 98.
New Britain.

9. *EUPLŒA DUPONCHELI*, Boisd. Voy. Astr. Ent. p. 97.
New Britain.

The examples sent have all the spots on the underside smaller than specimens thus named in the British Museum.

10. **HAMADRYAS ŒQUICINCTA*, nob. P. Z. S. 1877, p. 142.
New Ireland.

Several specimens, all exactly alike.

11. *MELANITIS LEDA* (Linn.), Syst. Nat. i. p. 773.
New Ireland.

12. **MYCALESIS LUGENS*, Salv. et Godm. P. Z. S. 1877, p. 142.
New Ireland.

13. **MYCALESIS MEDUS*: Salv. et Godm. P. Z. S. 1877, p. 142.
New Ireland.

14. **DRUSILLA ANABLEPS*, Salv. et Godm. P. Z. S. 1877, p. 142.
New Ireland.

15. **CYNTHIA INSULARIS*, Salv. et Godm. P. Z. S. 1877, p. 142.
New Ireland.

Male specimens now sent agree with Moluccan examples of *C. arsinoë*.

16. **MESSARAS WALLACII*, Feld. Reise Nov. Lep. p. 390.
New Ireland.

Two damaged specimens doubtfully referable to this species; they differ in having the marginal band on the underside of the secondaries narrower than specimens from Mysol and Waigiou.

17. *JUNONIA IPHITA*, Cram. Pap. Ex. iii. t. 209. f. C, D.
New Ireland.

Two very dark-coloured specimens of this variable species.

18. **RHINOPALPA ALGINA*, Salv. et Godm. P. Z. S. 1877, p. 143.
New Ireland.

19. **CETHOSIA OBSCURA*, Salv. et Godm. P. Z. S. 1877, p. 144.
New Ireland.

20. *DIADEMA BOLINA* (Linn.).
New Ireland.

Agrees with specimens from New Guinea.

21. **DIADEMA INEXPECTATA*, Salv. et Godm. P. Z. S. 1877, p. 144.
New Ireland.

With additional male specimens Mr. Brown has also sent females.

These differ from the male in having the wings above dark brown instead of bluish black; the lighter blue bands of the upper surface are wanting; beneath, the irregular light band which crosses the secondaries in the male is also absent.

22. *CYRESTIS FRATERCULA, Salv. et Godm. P. Z. S. 1877, p. 145.
New Ireland.

23. CYRESTIS ADÆMON, sp. n. (Plate XV. fig. 2.)

♂ Exp. 2·5 in. Allied to *C. mænalis* (Erichs. Nova Acta Ac. Nat. Cur. xvi. Suppl. p. 402, t. 50. f. 3), but differs in having the common white transverse band of both wings more clearly defined and the central dark line included within it almost obsolete; the transverse white bands near the base of the wings are much less clearly defined, as are also the white markings in the broad dark margin of the primaries.

New Ireland.

24. *MINETRA SYLVIA (Cram.).

New Ireland.

Several examples sent by Mr. Brown in this collection are doubtless referable to this species, differing in no respect from Amboyna examples. It does not, therefore, bear out our anticipation of its being a new species.

25. *DOLESCHALLIA BROWNI, Salv. et Godm. P. Z. S. 1877, p. 145, pl. xxii. f. 3-4.

New Ireland.

26. NEPTIS VENILIA (Linn.).

New Ireland.

27. NEPTIS PRASLINI (Boisd.), Voy. Astr. Ent. p. 131.

New Ireland.

LYCÆNIDÆ.

28. AMBLYPODIA, sp. ?

We have received only one specimen of this *Amblypodia*, which seems closely allied to *A. araxes* (Feld. Voy. Nov. Lep. ii. p. 224, t. 29. f. 3-5).

New Ireland.

29. LYCÆNA, sp. ?

Allied to *P. hylas* of Cramer, but darker blue above.

New Ireland.

30. LYCÆNA, sp. ?

Allied to *P. elpis*, Godt., but appears to be a distinct species.

New Ireland.

31. LYCÆNA ARATUS, Cram. Pap. Ex. iv. t. 365. f. A, B.

New Ireland.

32. *SCOLITANTIDES CLEOTAS, Salv. et Godm. P. Z. S. 1877, p. 146.

New Ireland.

Male specimens now sent by Mr. Brown have the blue of the upper surface distributed just as in *S. excellens* (Butler), which makes it doubtful that the latter species is really distinct.

There are two other species of *Lycænidae* in the collection which we are not yet able to determine; few of the specimens sent by Mr. Brown belonging to this family are in a sufficiently perfect state to render their determination satisfactory.

33. *TERIAS XANTHOMELÆNA, n. sp.

Terias, sp. ? Salv. et Godm. P. Z. S. 1877, p. 146.

New Ireland.

♂. Exp. 2 in. Allied to *T. candida* of Cramer; the yellow of the upper surface is of a paler sulphur-colour; the black border on the outer margin is narrower; on the costa of the primaries and abdominal margin of the secondaries it is broader. In the female the basal third of the primaries and the base and abdominal half of the secondaries, as well as the outer margin of both wings, are smoky brown.

Obs. Additional specimens of both sexes of this *Terias* sent by Mr. Brown confirm the differences between it and *T. candida*, to which we drew attention in our former paper.

34. TERIAS HEBRIDINA, Butl.

New Ireland.

35. PIERIS LYTÆA, Godm. et Salv. P. Z. S. 1878, p. 734.

New Britain.

36. PIERIS EUMELIS, Boisd. Voy. Astr. Ent. p. 50.

New Ireland.

37. PIERIS EURYGANIA. (Plate XV. figs. 5, 6.)

Pieris eurygania, Godm. et Salv. P. Z. S. 1878, p. 734.

New Ireland.

38. PIERIS MADETES. (Plate XV. figs. 3, 4.)

Pieris madetes, Godm. et Salv. P. Z. S. 1878, p. 733.

New Ireland.

39. *ORNITHOPTERA URVILLIANA, Salv. et Godm. P. Z. S. 1877, p. 147.

New Ireland.

40. PAPILIO EURYPYLUS, Linn.

New Ireland.

41. *PAPILIO CHOREDON, Salv. et Godm. P. Z. S. 1877, p. 148.

New Ireland.

42. *PAPILIO SEGONAX*, Godm. et Salv. P. Z. S. 1878, p. 734.
New Ireland.
43. **PAPILIO TELEMACHUS*?, Salv. et Godm. P. Z. S. 1877, p. 148.
New Ireland.
44. **PAPILIO ALBINUS*, Wall. Trans. Linn. Soc. xxv. t. 5. f. 4.
New Ireland.
45. **PAPILIO EUCHENOR*, Guér. Voy. Coq. t. 13. f. 3.
New Ireland.
46. **PAPILIO POLYDORUS*?, Salv. et Godm. P. Z. S. 1877, p. 149.
New Ireland.

HESPERIDÆ.

47. **TAGIADES*, sp.?, Salv. et Godm. P. Z. S. 1877, p. 149.
New Ireland.

EXPLANATION OF PLATE XV.

- Fig. 1. Upper and underside of *Euplœa erimas*, ♂, p. 156.
 2. Upper and underside of *Cyrestes adæmon*, p. 158.
 3. Upperside of *Pieris madetes*, ♂ ♀, p. 159.
 4. Underside of *Pieris madetes*, ♀, p. 159.
 5. Upperside of *Pieris eurygania*, ♂ ♀, p. 159.
 6. Underside of *Pieris eurygania*, ♂, p. 159.

5. On the Heterocera in the Collection of Lepidoptera from
New Ireland obtained by the Rev. G. Brown. By A. G.
BUTLER, F.Z.S.

[Received January 29, 1879.]

In this series are twenty-two species, most of which are either identical with or allied to forms occurring in New Guinea and the adjacent islands. The specimens are all of them in the collection of the British Museum.

AGARISTIDÆ.

AGARISTA TYRIANTHINA, n. sp.

Primaries purplish black; a large and nearly pyriform white spot (its apex pointing towards the costal margin) across the basal portion of the median branches; apical fringe white: secondaries black, shot with brilliant purplish blue; a large patch of white occupying the whole central area from abdominal margin to subcostal vein; apical fringe white: body blackish, with orange anus; thorax shot with blue; a white line behind the eyes. Under surface nearly the same as above. Expanse of wings 2 inches.

Most nearly allied to *A. privata* of Walker, from Ceram, but dif-



Godman, Frederick Du Cane and Salvin, Osbert. 1879. "4. On a Collection of Diurnal Lepidoptera made by the Rev. G. Brown in New Ireland and New Britain." *Proceedings of the Zoological Society of London* 1879, 155–160.

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