

III. *On some Aberrations of Lepidoptera.* By PERCY
I. LATHY, F.Z.S., F.E.S.

[Read November 4th, 1903.]

PLATE X.

THE whole of the aberrations here described and figured are contained in the rich collection of Mr. Herbert J. Adams, F.E.S.

1. *Melinæa mauensis*, Butl.

A gynandromorphous example, the left side being female and the right male; this specimen is from Demerara.

2. *Amathusia andamanensis*, Fruhst.

A male with three ocelli on hind-wings below.

3. *Morpho cacica*, Stgr.

A male in which the submarginal white spots of fore-wing above are large and elongated; the discal pale band of fore-wing below shows through, in some lights giving the appearance of a band on the upper-side.

4. *Acræa terpsichore*, Linn. Pl. X, fig. 1.

A male with the black spots of hind-wing below much enlarged and elongated.

Received from Natal.

5. *Heliconius aristiona*, Hew.

A female with discal black spots of fore-wing absent, cellular and costal spots greatly reduced.

Taken by Messrs. Watkins and Tomlinson in Peru.

6. *Heliconius sara*, Fabr.

A female from Venezuela with the usual yellow markings white.

7. *Heliconius sprucei*, Bates.

A similar aberration to the preceding; obtained in Ecuador.

8. *Heliconius erato*, Linn.

Another female aberration in which the yellow markings are replaced by white ; the red markings are more pinkish in tinge than in typical specimens.

This example came from Venezuela in the same parcel as *H. sara*, Fabr., mentioned above.

9. *Dione vanillæ*, Linn. Pl. X, fig. 2.

A female with all the black markings above increased and coalescent ; the under-side differs little from typical specimens, except the cell of fore-wing is filled in with black.

This fine specimen was taken at Santa Barbara, California.

10. *Brenthis myrina*, Cram. Pl. X, fig. 3.

A male from Canada with discal black markings of both wings large and coalescent, in the fore-wing forming a wide black band.

11. *Pyrameis indica*, Herbst. Pl. X, fig. 4.

A remarkable aberration in which subapical white spots of fore-wing have disappeared, the lower one being indicated by an obscure reddish spot, the black markings in the red median band are also wanting ; marginal red band of hind-wing much reduced, and the black spots replaced by a dark brown bar ; the under-side of fore-wing differs from typical specimens in the same way as the upper-side, while the hind-wing is much clouded with brown, therefore rendering the markings obscure.

This beautiful form is from Travancore, S. India.

12. *Anartia jatrophæ*, Linn.

A female from Dominica, Leeward Islands, having four discal black spots to hind-wing above, the additional two which are smaller being placed between the usual two.

13. *Anartia saturata*, Stgr. Pl. X, fig. 5.

A female with the transverse markings of both wings obscure and diffused, ocelli absent, and submarginal orange brown patches greatly elongated at apex of fore-wing and absent in hind-wing ; under-side with all markings very obscure, submarginal ones and ocelli absent, hind-wing with faint red scaling.

This most beautiful variety was captured by the late Mr. Priddey in Haiti.

14. *Callicore clymena*, Cram. Pl. X, fig. 6.

A male in which hind-wing below has submarginal black band, and band dividing figure of eight markings wider, and black spots larger than usual, these resembling *C. clymena*, Cram.; the front discal band absent.

Taken in Peru by Messrs. Watkins and Tomlinson.

15. *Catagramma hydaspes*, Dru. Pl. X, fig. 7.

A male from Paraguay with black band beyond base of hind-wing below narrow and obscure, almost disappearing in cell; submarginal black band wider, its inner edge diffused.

16. *Catagramma cyllene*, D. and H. Pl. X, fig. 8.

A male with the submarginal black band of the hind-wing below narrower and much further from margin, and the blue markings it contains more lunular in shape.

Another of Messrs. Watkins and Tomlinson's captures in Peru.

17. *Batesia hypoxantha*, G. and S.

A curious freak in neuration, the subcostal nervure of hind-wing being connected with upper discoidal nervure by a short bar; this occurs on both hind-wings but in a different position, as on right wing the connection is formed some distance before submarginal black border, and on left wing on border.

18. *Amnosia decora*, Doubld.

A female with pale band of fore-wings below broken at middle median nervule.

19. *Hypolimnias bolina*, Linn. Pl. X, fig. 9.

A female with both wings above cream-colour, darker towards base and without markings, with exception of a little dark brown in and beyond upper part of cell of fore-wing and base of costa of hind-wing. Under-side of fore-wing very similar to upper but dark cellular markings less and enclosing whitish spots, a little dark clouding at anal angle; hind-wing with a small dark mark at anal angle otherwise immaculate.

This specimen is from Fiji, and is a striking form even among the beautiful varieties that occur there.

20. *Hypolimnna misippus*, Linn.

A female with discal white spot on hind-wing above and below ; this spot is faintly shot with blue above as in the male.

I received this specimen from Mr. G. F. Leigh, F.E.S., of Durban, Natal.

21. *Hypolimnna deiois*, Hew.

A male from Milne Bay, British New Guinea, having the usual white patch of hind-wing above replaced by a very small bluish one very similar to that in *H. paleutes*, Grose Smith.

22. *Godartia eurinome*, Cram.

I have already described this aberration of the female. Trans. Ent. Soc. Lond., 1903, p. 193, n. 109.

23. *Euphædra francina*, Godt.

A male from Sierra Leone with subapical yellow band of fore-wing obsolete.

24. *Chlorippe vacuna*, Godt.

A male from Espirito Santo, Brazil, in which discal spots of fore-wing above are white instead of orange.

25. *Archonias eurytele*, Hew.

A male from Columbia has the usual yellow markings replaced by white.

26. *Hesperocharis hirlanda*, Stoll.

A male with ground-colour of both wings above pale yellow.

This and the following variety were taken by Messrs. Watkins and Tomlinson in Peru.

27. *Hesperocharis nereina*, Hopff.

A similar aberration to the preceding.

28. *Dismorphia astynome*, Dalm.

A female from Paraguay with the usual reddish-brown markings above yellow.

29. *Delias belisama*, Cram.

A male with hind-wing above pale yellow.

30. *Prioneris autothisbe*, Hübn.

a. A male with discal area of hind-wing below yellowish-white and suffused with black scales.

b. A male with discal area of hind-wing below white.

31. *Prioneris sita*, Feld.

A male from S. India with nervules on both wings above and below widely bordered with black, in this respect resembling the female.

32. *Teracolus erone*, Angas. Pl. X, fig. 10.

A male with hind-wings above suffused with pinkish-brown, slightly iridescent.

Obtained in Natal.

33. *Troides urvillianus*, Guér.

a. A male with hind-wings above very densely scaled with black, and the black spots between nervules produced into bars which run into black scaling.

b. A male wanting black patch between median nervule and submedian nervure of hind-wing below.

34. *Troides papuensis*, Wall.

A pair with outer margin of fore-wings strongly incurved between middle and lower median nervules, in the female the outer margin of left fore-wing is also incurved near apex.

35. *Papilio ridleyanus*, White. Pl. X, fig. 11.

I described this pretty aberration in a previous number of the Transactions, June 1903, p. 203, n. 198, and now take the opportunity of figuring it.

36. *Papilio athous*, Feld.

Two males with fore-wing above devoid of white patch on inner margin.

37. *Papilio anchisiades*, Esp.

A male from Cayenne in which the usual red patches of hind-wing are blue.

38. *Papilio lycophron*, Hubn.

A striking aberration of the male in which the submarginal yellow markings of the hind-wing above have entirely disappeared, the under-side being normal.

39. *Papilio demolion*, Cram.

Three males from Nias with bands orange yellow.

40. *Papilio chaon*, Westw.

A male from Sikkim with left hind-wing below having submarginal yellow lunules much elongated at anal angle.

41. *Papilio thomsoni*, Butl.

A male with discal white patches on hind-wing below.

42. *Papilio joësa*, Butl.

A male in which the usual brilliant blue is replaced by dull silvery blue.

43. *Papilio memnon*, Linn.

A female from Sumatra with five large elongated greyish-white patches between nervules of hind-wing above ; this specimen belongs to the form which has red basal patch, and large white apical patch to fore-wing.

44. *Papilio gyas*, Westw.

I have already recorded this gynandromorphous specimen, "Entomologist," June 1899, p. 148.

45. *Papilio mikado*, Leech ? Pl. X, fig. 12.

The green markings are paler than in typical *axion*, Feld., more resembling the colours of those in *gordion*, Feld.; fore-wing above with cellular and discal markings large, the subapical spots being coalescent, submarginal spots obscure ; hind-wing with nearly all costal area white, a long green fascia below subcostal nervure ; under-side of fore-wing as above, but with pale markings coalescent with exception of the three lower submarginal spots ; hind-wing with pale markings much extended and the red more diffused. This beautiful form came into Mr. Adams' possession with the Hourath Collection ; the specimen bears no locality, but is probably from Japan, as it appears to be intermediate between typical *mikado*, Leech, and the form figured by Mr. Wileman under the name of *albidus*, Entom. xxxvi, n. 487, p. 300, 1903.

EXPLANATION OF PLATE X.

- FIG. 1. *Acræa terpsichore*, Linn.
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,, 5. *Anartia saturata*, Stgr.
,, 6. *Callicore clymena*, Cram.
,, 7. *Catagramma hydaspes*, Dru.
,, 8. ,, *cyllene*, D. and H.
,, 9. *Hypolimnias bolina*, Linn.
,, 10. *Teracolus erone*, Angas.
,, 11. *Papilio ridleyanus*, White.
,, 12. ,, *mikado*, Leech ?



Lathy, Percy Ireland. 1904. "III. On some Aberrations of Lepidoptera."
Transactions of the Entomological Society of London 52, 65–70.
<https://doi.org/10.1111/j.1365-2311.1904.tb02737.x>.

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