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## Journal of Variation

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c.

**Hippodamia variegata, Goeze.—New aberrations.**

By G. B. C. LEMAN, F.E.S.

**1. ab. harwoodi, n.ab.**

This aberration comprises the unique confluence of spots 1 and 5. Spot 4 is large and only escapes confluence with spot 5 by a very narrow margin. The only other spots present are  $\frac{1}{2}$  and 6.

The type is in the collection of Mr. Philip Harwood, F.E.S., who kindly sent me his specimen, which he took at Little Hadham, Herts, on October 29th, 1911, for identification, and after whom I have the honour of naming it.

FORMULA: 1 + 5, 4, 6,  $\frac{1}{2}$ .

**2. ab. reichei, n.ab.**

*A. mutabilis*, Scriba, var., "Voyage en Abyssinie" par Fruet et Gallonier (*Entom.*) p. 409. 1. (Reiche, 1850): *A. mutabilis*, Scriba. *Mon. Cocc.* I. 40. No. 2. obs., and *Mem. Ac. Imp. Lyons*, XV. 28. No. 2. obs. (Mulsant, 1866).

"1. *A. mutabilis*:—Scriba.—var.

"Variété à six points noirs sur chaque élytre independamment de la tache scutellaire, les trois points postérieurs plus gros, réunis en une grande tache avec un point rouge au milieu. Pattes antérieures rouges, genoux un peu obscurs, branches des pattes intermédiaires, base des cuisses et extrémités des jambes roussâtres."

This variety is distinguished from ab. *turkmenica*, Zoubk., by the presence of the red spot in the centre of the large blotch formed by the confluence of spots 4 + 5 + 6.

FORMULA: 1, 2, 3, 4 + 5 + 6 (in large blotch with red spot in centre),  $\frac{1}{2}$ .

**3. ab. colligata, n.ab.**

*A. variegata*, Ws., B.T. II. Cocc. (separat. Abdruck, aus der "Zeit. für. Entom." Neue Folge, Siebentes Heft. Breslau. 1879) pp. 5 and 6. 1. 1. k. nec v. *corsica*, Reiche—B.T. II. Cocc. (1885) pp. 12-14. i. nec v. *corsica*, Reiche—*L'Abeille Journ. d'Entom.* (1892) XXVIII. 1. 12. i. nec var. *corsica*, Reiche—Ws., *Deutsche Ent. Zeit.* (1900) pp. 122 and 123. "oder noch 4 mit 1 zusammen," nec "(var. *corsica*)".

"k. P. 1 + 4 gross, bilden eine Längsbinde . . . v. *corsica*, Reiche." [Ws., 1879.]

"i. P. 4 ist gross, nach vorn und aussen gekrümmt, zu letzt mit P. 1 zu einer schiefen Längsbinde vereinigt. Corsica Sardinien . . . v. *corsica*, Reiche." [Ws., 1885.]

This aberration has 13 spots, with 1 + 4 confluent (teste Weise), but it is certainly not the var. *corsica* of Reiche and cannot be confused with the latter.

FORMULA: 1 + 4, 2, 3, 5, 6,  $\frac{1}{2}$ .

**4. ab. bilimbata, n.ab.**

This aberration differs from ab. *limbata*, Fabr., in having the additional spot No. 6.

Fabricius (1781) describes his ab. *limbata* in *Sp. Ins.* II. App. 497. 12 as under.

"12. *Coccinella atra*, coleoptorum disco rubro, limbata.  
Punctis duobus atris.

"Media. Caput et thorax atra margine albido. Elytra atra ad suturam rubra puncto magno atro. Apex elytrorum rufescit."

Mulsant (1846) in *Hist. Nat. des Col.* under *A. mutabilis*, Scriba, var. C. makes the following observation (p. 41).

"Obs. Ici ce placerait la *Cocc. limbata* de Fabricius, si elle ne devait être rangée même de la liste des variétés de l'espèce qui nous occupe. Elle fut décrite par l'Entomologiste de Kiel, sur un exemplaire du museum de Schultz, dont les élytres, selon toute apparence, se trouveraient accidentellement obscurcies. Fabricius dit qu'elle est noire, moins le disque des élytres qui est rouge et marqué d'un point noir sur chaque étui. Ou, suivant Schneider, qui paraît avoir visité la collection de Schultz, l'exemplaire typique laisserait compter neuf points noirs sur chaque élytre dont la base et le bord externe sont obscurs."

On referring to Schneider (1792) *Neu. Mag.* II. p. 143, we find:

"h. *Cocc. limbata*, Fabr., aus der Schultzichen Sammlung. Sie ist der vorhergehende [=g. *Cocc. 9-punctata*, Schrank = *H. variegata*, Goez.] ganz ähnlich nur durch die schwarzbraune Farbe, womit der Grund und Ausserrand der Decken in beträchtliche Breite angeflogen, etwas verstellt; doch lassen die neun grosser schwarzen Punkte leicht ausfundig machen."

Weise (1879) in his B-T. refers to a specimen in the Berlin Museum:—

"m. Flgd. mit breiten, scharf begrenzten, schwarzen Saume, der mehr als  $\frac{1}{3}$  der Breite einnimmt und P. 5. (1 Stück diesser schönen Var. auf dem Berliner Museum) . . . v. *limbata*, Fabr."

In his 1885 edition Weise uses the same phraseology with the exception of "Seitensaume" for "Saume" and, what will appear significant, he omits any reference to the specimen in the Berlin Museum.

I wrote during 1922 to Professor Kölbe of the Berlin Museum and asked him to look up the specimen referred to by Weise in 1879 and send me a diagram of same. This he very kindly did, but his diagram, while agreeing in other respects with Fabricius' description, and that of later writers, discloses the presence of two spots, *viz.*, 5 and 6.

In this latter respect, the specimen now at the Berlin Museum does not tally with Fabricius' description, and, while it is difficult to say with any certainty which of the two spots, 5 or 6, he intended by the phrase, "puncto atro magno," yet in view of the fact that normally spot 5 is the large spot on this series, coupled with Weise's distinct reference to spot 5—and he appears to have seen such a specimen at some time—I think we may accept spot 5 on the ab. *limbata*, Fabr.

I have therefore named the specimen now at the Berlin Museum ab. *bilimbata*, to distinguish it from ab. *limbata*, Fabr.

FORMULA: 5, 6,  $\frac{1}{2}$  and a black marginal border covering about  $\frac{1}{3}$  of width of elytra, from margin to suture, tapering towards apex, which is red.

5. ab. **hepatizon**, n.ab.

There is a very curiously marked specimen in the general collection at the South Kensington Museum labelled, "India. Adon. Mulsant var." in which all the spots are confluent to an abnormal degree, including the upper spots with the lower.

The markings include a series of three confluences all connected inter se, viz.: (i)  $\frac{1}{2} + 3 + 2$ , then (ii)  $1 + 4$ , crossing (i) at right angles; and (iii)  $4 + 5 + 6$ , which is a liver-shaped blotch containing the red spot found also in ab. *reichii*, mihi (Supra. 2), confluent with (ii).

Whether the additional spot mentioned by Mulsant, *Spec. des Col. Trim. Sec.*, pt. I, 38, 1 (1851), and *Mem. Ac. Imp. Lyons*, xv., 27, 1 (1866), as occurring in his var. *doubledayi* immediately below spot 1 is present in this aberration I cannot say.

The thorax has one of the normal forms of this species, viz., two whitish spots and slight medial depression at apex.

Type in S.K. Museum.

FORMULA:  $\frac{1}{2} + 3 + 2$  crossing at right angles confluence  $1 + 4 + 5 + 6$ , of which  $4 + 5 + 6$  forms a large liver-shaped blotch, with a red spot in centre.

6. ab. **ellisi**, n.ab.

This aberration differs from ab. *harwoodi*, mihi, in having spot 4 joined to the confluence of  $1 + 5$ , which is the distinguishing feature of ab. *harwoodi*. Spot 1 is larger and the confluence bolder, the other spots present being 6 and  $\frac{1}{2}$ .

I found this aberration in the collection of Mr. H. Willoughby Ellis, F.Z.S., F.E.S., who kindly placed his series of this species at my disposal, and after whom I have the honour of naming it.

Mr. Willoughby Ellis informs me this aberration was taken by Dr. Tait at Swanage in June, 1900.

The type is in the collection of Mr. Willoughby Ellis.

FORMULA:  $1 + 5 + 4, 6, \frac{1}{2}$ .

7. Correction for locality of ab. *bearii*, Leman [*Ent. Rec.*, xxxiv., No. 6, p. 102. 8. (1922)].

The locality for this aberration should have been given as "New Brighton, Cheshire, and not Southport.

8. Correction of British Record of ab. *alacris*, Ws. [*Ent. Rec.*, xxxv., No. 1. p. 11. 2. (1923)].

Closer examination proves this specimen to be ab. *obrersepunctata*, Schrank, and this record should therefore be expunged. I much regret this error.

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**A Summer Holiday at Nyons, Drome, and La Sainte Baume, Var, in July, 1922.**

By LIEUT. E. B. ASHBY, F.E.S., and memb. Soc. ent. de France.

When Mr. F. T. Gilliat kindly asked me last spring to join him and his brother, the Rev. S. W. E. Gilliat, in a butterfly hunt in