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Communications have been received or have been promised from Rev. G. Wheeler, Messrs. R. S. Bagnall, Hy. J. Turner, Parkinson Curtis, H. Donisthorpe, A. Sich, Dr. Verity, C. W. Colthrup, Rev. C. R. N. Burrows, Dr. T. A. Chapman, Capt. Burr, G. T. Bethune-Baker, E. B. Ashby, P. A. H. Muschamp, J. H. Durrant, Orazio Querci, W. B. Davis, Prof. McDunnough, with Reports of Societies and Reviews.

Notes on Coccinellidæ (with one plate).

By G. B. C. LEMAN.

1. In August last I took in the Putney district two aberrations of *Coccinella 11-punctata* which are not included in Mr. H. St. J. K. Donisthorpe's interesting monograph on this species (see *Ent. Record.*, Vol. xxx., No. 7, pp. 121-128), and on his suggestion I venture to name them as follows:—

(a) *Ab. binisquisi-punctata*, n. ab.—This conforms to the type with the exception that the 2nd and 4th spots are wanting—one specimen taken on thistle Putney Vale, S.W., Aug., 1919. (See Plate V., fig. 1).

(b) *Ab. trinisquisi-punctata*, n. ab.—This also conforms to the type but the 3rd spot is wanting—two specimens taken on thistles at the same place. (See Plate V., fig. 2).

Incidentally I may mention that I took also a specimen with the 3rd spot wanting on the right elytron only, which suggests a stage in the evolution of this new aberration.

2. In the same month and district I also took with the type the following recorded aberrations of *C. 11-punctata*, viz., ab. *confluens*, Haw. (present in considerable numbers), ab. *cakiles*, ab. *9-punctata* (both in fair numbers), and ab. *tamaricis* (two); also a specimen with spots 4 and 5 confluent on the right elytron only, and six specimens with spots 2 and 3 confluent only, in each case on the right elytron, again suggesting stages in the evolution of the respective aberrations ab. *tamaricis* and ab. *confluens*. The process of evolution appears to commence with the right elytron.

3. In the New Forest district near Ringwood, Hants, earlier in August I swept up with type the following aberrations of *C. 11-punctata*, viz., ab. *confluens*, Haw. (six specimens), ab. *variegata* (one) ab. *cakiles* (one), and ab. *9-punctata* (one), and at Winchester, ab. *confluens*, Haw. (four). I have submitted all my specimens to Mr. Donisthorpe, who has kindly confirmed my identification of them and has always most generously given me every help in identifying my *Coccinellidæ* and other specimens of Coleoptera. I think it may be of interest to mention the finding of these aberrations as I do not think that so far ab. *cakiles*, ab. *tamaricis*, and ab. *variegata* are recorded for the British Isles.

4. I may add that in this district I have also taken a "freak" specimen of *C. 11-punctata* with spots 1, 2, 3 and 4 again wanting on the right elytron, which is the nearest approach to the ab. *tripunctata* I have so far succeeded in taking.

5. I took another "freak" specimen on September 10th, on the Ashtead Manor Estate, attributable to *C. 7-punctata*. This curious specimen has the normal $3\frac{1}{2}$ spots on the right elytron but the left elytron is unicolorously black, but this is probably attributable to some injury in the larval or pupal state, as this elytron is somewhat deformed at the apex and margin.

6. Last year I took on potatoe haulm (a favourite habitat here for *Adalia bipunctata*) with type a specimen with the sutural basal spot

distinctly bifid, with two other basal spots, the central spots confluent and two more spots in the apical region. This interesting specimen the late Mr. W. J. Ashdown identified as an aberration of *A. bipunctata*, and as he was unable to find in his large collection of *Coccinellidae* an exact replica, my specimen is possibly unique, and as such worth recording.

I have also submitted this specimen to Mr. Donisthorpe, and as he considers it worth naming, and in fact first noticed it among my *Coccinellidae*, I should like to associate his name with it, and with his consent propose to name it:—

ab. *donisthorpei*, n.ab. (see plate v., fig. 3).

7. In April last in Trent Wood (a few miles out of Droitwich. Wores.) I took in decayed leaves in an oak wood at the foot of an oak stump a solitary specimen of *Anatis ocellata*, L., which Mr. Donisthorpe tells me is a new locality for this species.

8. It may be worth recording that on September 13th last I also took by beating an entirely black specimen of *Chilocorus bipustulatus*, L., on pine at Oxshott, and on the same day and place single specimens of ab. *9-punctata* and ab. *cakiles* of *C. 11-punctata*.

The Myrmecophilous Lady-Bird, *Coccinella distincta*, Fald., its Life History and Association with Ants.

By HORACE DONISTHORPE, F.Z.S., F.E.S., etc.

Coccinella distincta, Fald.

Coccinella distincta, Faldermann *Nouv. Mém. Mosc.* 5 404 (1837).¹
Coccinella magnifica, Redtenbacher *Tentamen Pseudotr.* 24 (1843).²
Coccinella septempunctata, Mannerheim *Bull. Mosc.* 1 87 (1843)³ [?].
Coccinella labilis, Mulsant *Séc.* 84-86 (1846)⁴; Newman *Zool.* 5 1864 (1847)⁵; Stephens *Zool.* 5 1865 (1847)⁶; Mulsant *Species* 1020 (1851)⁷; Sharp *Proc. Ent. Soc. Lond.* 1863 168⁸; Champion *Ent. Mo. Mag.* 4 187 (1868)⁹; 5 45 (1868)¹⁰; Rye *Ent. Ann.* 1869 8¹¹; 1870 40¹². *Coccinella distincta*, Rosenbauer *Stet. Ent. Zeit.* 43, 166 (1882)¹³; Sharp *Cat. Brit. Col.* 2nd edtn., 22 (1883)¹⁴. *Coccinella labilis*, Collett, *Ent. Mo. Mag.* 20 226 (1884)¹⁵; Wood, *Ent. Mo. Mag.* 22 163 (1885)¹⁶; Morris *Ent. Mo. Mag.* 25 36 (1888)¹⁷. *Coccinella distincta* Fowler *Col. Brit. Isles* 3 165 (1889)¹⁸; Donisthorpe *Ent. Mo. Mag.* 31 99 (1895)¹⁹; 32 45 (1896)²⁰; Walker *Ent. Mo. Mag.* 33 175 (1897)²¹; Donisthorpe *Ent. Rec.* 9 247 (1897)²²; Ganglbauer *Käfer Mitt.* 3 1007 (1899)²³; Donisthorpe *Ent. Rec.* 12 173 (1900)²⁴; *Trans. Ent. Soc. Lond.* 1901 367²⁵; *Trans. Leicester Lit.-Phil. Soc.* 6 226 (1902)²⁶; *Ent. Rec.* 15 12 (1903)²⁷; Champion *Ent. Mo. Mag.* 39 151 (1903)²⁸; Donisthorpe, *Ent. Mo. Mag.* 39 206 (1903)²⁹; *Vic. Hist. Sussex* 1 149 (1905)³⁰; Donisthorpe *Proc. Lancs.-Chesh. Ent. Soc.* 1905 37 43³¹; *Eur. Cat. Col.* 363 (1906)³²; Donisthorpe *Ent. Rec.* 20 283 (1908)³³; *Zool.* 446 (1909)³⁴; Wasmann *Zeit. Wissens. Zool.* 101 112 (1912)³⁵; Fowler and Donisthorpe *Col. Brit. Isles* 6 (Suppl.) 254, 326, 329 (1913)³⁶; Donisthorpe *Ent. Rec.* 26 42 (1914)³⁷; 28 35 (1916)³⁸; 31 22 (1919)³⁹; *Proc. Ent. Soc. Lond.* Read 7 v. 19⁴⁰; Read 4 vi. 19⁴¹.

Coccinella distincta, Fald., subsp. *labilis*, Muls., ab. *domiduca*, Weise.

Coccinella septempunctata, var. η , Stephens *Mand.*, 4 380 (1831)⁴².

fig 1.

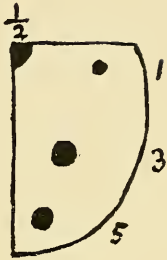


fig 2.

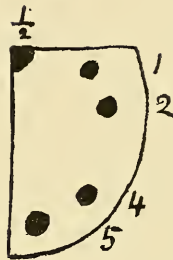


fig 3.



del. G.B.C.L.

- Fig. 1. COCCINELLA 11-PUNCTATA, L. AB. BINISEQUIPUNCTATA, N.AB.
 Fig. 2. " " AB. TRINISEQUIPUNCTATA, N.AB.
 Fig. 3. ADALIA BIPUNCTATA, L. AB. DONISTHORPEI, N.AB.

(diagrammatic, enlarged.)