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Hepialus hecta, L. ab. ornata ab. nov. (Fig. 12).

One male has the post-medial band well developed and 6 spots on the margin. On the hindwing there are two rows of interneural silvery spots, one post-medial row of 4, and a complete marginal row of 7 spots.

Holotype: ♂, Thundersley, 4th July 1911, leg. A. T. Stiff.

ab. ornata comes nearest to ab. strigosa, Hartig, but this form has only one row of radial interneural spots on the hindwing; strigosa, Hart. can be considered as a decorata, Krul. with the same pattern also on the hindwing, while in ab. ornata there are two rows.

Hepialus hecta, L. ab. inversa ab. nov. (Fig. 14).

One female has all the white markings very much enlarged; the whole ground of the forewing is greyish white. Of dark markings there are present: 4 costal dots, one elongated mark in the upper cell, one large claviform mark at the base below the lower cell and a darker band outside of the post-medial line.

Holotype: ♀, St Amata, Lettonia, 16th July, 1933, leg. W. Brandt.

This form corresponds to the ab. senex, Pfitz. of H. lupulinus, L.

EXPLANATION OF THE PLATE.

1. Hepialus humuli, L. ab. roseornata, By.-S. ♀, Type, Tavistock.
3. Hepialus humuli, L. ssp. thulensis Newm. ♀, Shetland Islands.
8. Hepialus lupulinus, L. ♂, Berlin, Germany.
10. Hepialus hecta, L. ♀, St Amata, Lettonia.
11. Hepialus hecta, L. ab. confinis, By.-S. ♂, Type, Thundersley.
12. Hepialus hecta, L. ab. ornata, By.-S. ♂, Type, Thundersley.
14. Hepialus hecta, L. ab. inversa, By.-S. St Amata, Lettonia.
16. Hepialus fusconebulosus, De Geer ssp. vallei, Grönbl. ♀, Rybatchi Peninsula, Murmansk Coast, 70° lat.

COCCINELLID NOTES. TWO NEW ABERRATIONS.

By T. F. Marriner.

(With Plate VI.)

Some years ago my friend, the late Mr G. B. Routledge, showed me three fine specimens of Adalia bipunctata, L., which he had bought in a collection in London. I spent much time and search over these as they all seemed worthy of names. Lately I submitted drawings of them again to Mr H. Donisthorpe and he tells me that two of them appear in Dr Mader's great work.* The third, however, does not appear to have been noted and I would like to name it as Adalia bipunctata, L., ab. routledgei, after my late friend. It is shown in the plate (No. 2) alongside the normal A. bipunctata (No. 1). It agrees with the Linnean description

*"Evidenz der paläarktischen Coccinelliden und ihren Aberrationen," 1927-1933.
of bipunctata except as shown in the sketch, where it will be noticed that both the elytral and the thoracic spots are unusual.

According to a data label attached, when I saw it, the insect had come from the collection of a Mrs Taylor, London, and had been taken at Hanwell in 1877. Mr Routledge’s collection is now in Tullie House Museum, Carlisle.

When I came to live at Easton in north-east Cumberland, almost six years ago, I came to an area which had been unexplored by the naturalist and I am spending my time in exploring its natural history. One of my chief disappointments is the fact that it appears almost devoid of my favourite family, Coccinellidae, but I hope to show in a later paper that even their scarcity has yielded some interest. At present I wish to call attention to one of my finds. In four seasons I never came across even such a commonly occurring species as Coccinella 10-punctata, L., but last August, when collecting along the Netherby Road, I stopped at a point some four miles from home to watch some men bringing timber out of the wood. I saw some ladybirds on one of the logs and managed to tube some half-dozen for the sake of the locality. They were C. 10-punctata, L., and when I came to set them I only found a single normal specimen among them (3) and one of them had no spots, while two others were almost clear. This no-spot variety must surely be rare, for I have been interested in the insect for over thirty years and have never either seen or heard of it. It is not an immature specimen. A very powerful lens shows an exceedingly faint, minute, black speck close to the edge of each elytron (4). The insect agrees with the normal description in every other respect. I propose the name C. 10-punctata, L., ab. inornata for this.

The spotless forms of Coccinellidae now discovered and named are:—

Subcoccinella 24-punctata, L., ab. saponaria, Weise has been recorded from France, Essex, and Cumberland, Ent. Record, XXXVI, p. 86.

Hippodamia variegata, Goze, ab. immaculata, Gmel. taken only in Sweden, l.c., XXXIV, p. 24.

Coccinella 11-punctata, L., ab. pura, Weise, France only so far, l.c., XXXI, p. 122.

Coccinella 7-punctata, L., ab. lucida, Weise, France, Cumberland, l.c., XXXVI, p. 87.

Coccinella 10-punctata, L., ab. inornata (n. ab.), Cumberland.

[The following other spotless forms are figured by Mader:—

Hippodamia 13-punctata, L., ab. signata, Fald.
Adonia variegata, Gr., ab. immaculata, Gmel.
Anisosticta 19-punctata, L., ab. egena, Weise (with immaculate thorax), and ab. athesis, Weise (pallida, Possi).
Adalia 10-punctata, L., ab. pellucida, Weise (quite immaculate without Marriner’s very small spots on elytra).
Adalia bipunctata, L., ab. concolor, Meier.
Coccinella 5-punctata, L., ab. minskwitzi, Hän.
Coccinella hieroglyphica, L., ab. brunnea, Weise.
Synharmonia conglobata, L., ab. vandalitiae, Weise.—H. D.]
Ent. Rec., and Jr. of Variation. del. T. F. Marriner.

ABERRATIONS OF COCCINELLIDS.