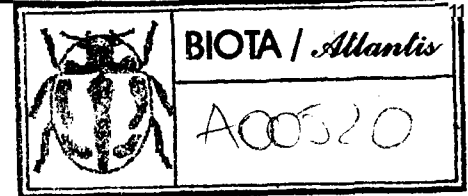


Iter entomologicum ad Insulas Canarienses anno 1931 a RICHARD FREY
et RAGNAR STORÅ factum. N:o ti.

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379



Neuroptera from the Canary Islands.

By

P. ESSEN-PETERSEN, Silkeborg.

(With 3 Fig.).

By the kindness of Dr. RICHARD FREY, Helsingfors Museum, I have had the pleasure of examining a lot of Neuroptera collected in the Canary Islands. Below I give a list of the species together with a description of a new species, and with some notes concerning an other Neuropterous insect not before mentioned from the islands.

Fam. Chrysopidae

Chrysopa Leach.

Edinb. Encycl. IX. p. 138. 1815.

C. atlantica McLachlan, Journ. Linn. Soc. Lond. vol. 16, p. 167. 1882.

Teierife: Tacoronte, in a Park, 9. VII., 12. VII., 30. VII., 10 sp., the most specimens are collected by light (St., Fr.); in the same place, in Forest, 7.—8. VII., 7 sp. (St., Fr.); Orotava, in a Park, 15., 21. VII., 3 sp. (St.); in the same place, in botanical Garden, 14. VII., 1 sp. (St.). — **La Palma:** Barranco del Rio, 4. VIII., 1 sp. (St.).

Distr.: Canaries and Madeira.

Soc. Scient. Fenn., Comm. Biol. VI. 6

C. flaviceps Brullé, Hist. Canar. II, pt. 2, p. 83.

Tenerife: Tacoronte, 5. VII., 1 sp. (St.). — Pico di Teyde: Canadas, 21.—23. VII., 8 sp., the most by light (St., Fr.); in the same place, Alta Vista, 3,290 m. 23. VII., 3 sp. (St.).

Distr.: Endemic species.

C. fortunata M'Lachlan, Journ. Linn. Soc. Lond. vol. 16, p. 164, 1882.

La Palma: Barranco del Rio. 4. VIII., 1 sp. (St.).

Distr.: Endemic species.

C. subcostalis M'Lachlan, Journ. Linn. Soc. Lond. vol. 16, p. 166, 1882.

Gr. Canaria: Atalaya. 25. VI., 1 sp. (St.).

Distr.: Endemic species.

C. vulgaris Schneider, Monogr. Chrysop. p. 68, 1851.

Gr. Canaria: Tafira, 23., 27. VI., 2 sp. (Fr., St.); in the same place. 21. VIII., 2 sp. (Fr.). — Tenerife: Tacoronte, 11. VII., 2 sp. (SL.); Agua Mansa, 17. VII., 1 sp. (Fr.); Orotava, 14. VII., 1 sp. (St.); Pico di Teyde: Canadas, 23. VII., 1 sp. (St.). — La Palma: Los Llanos, 5. VIII., 2 sp. (Fr.).

Distr.: Europa and Africa.

Fam. Hemerobiidae

Hemerobius Linn.

Syst. Nat. X, p. 549, 1758.

H. Eatoni Morton, Ent. Monthl. Mag. p. 147, 1906.

Tenerife: Laguna, 2. VII., 1 sp. (Fr.); Tacoronte, 11. VII., 3 sp. (St.); Agua Garcia, 11. VII., 1 sp. (Pr.); Orotava, 21. VII., 2 sp. (Fr.); Agua Mansa, 27. VII., 1 sp. (Fr.).

Distr.: Canaries and Madeira.

Boriomyia Banks,

Proceed. Ent. Soc. Wash. p. 209, 1904.

B. Navasi Andréu (Boletín Soc. Aragonesa Ciencias Naturales. toiii X, p. 58, fig. 1, 1911. Orihuela).

Tenerife: Pico di Teyde, Canadas, 2,250 m, by light, 23. VII., 1 ♂ (St.).

At first sight this species has very much likeness to *Boriomyia betulina* Ström (*nervosa* Fabr.), but the anal appendages of the male are different from those of *betulina*. Seen from beneath their tips are inwardly curved as in *Boriomyia persica* Morton (Entom. Monthly Mag. p. 221, figs. 6 and 7, 1921). I have made a microscopical preparation of the appendages of a male of *Navasi* from Spaiii (ex coll. NAVAS), and I find that the male from Tenerife agrees exactly with the Spanish specimen. It is the first record of the species from the Canary Islands.

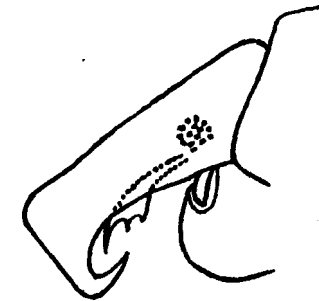


Fig. 1. *Boriomyia Navasi* ♂ from La Palma. Anal appendages seen from side.

Micromus Rambur,

Hist. Natur. Insectes, p. 416, 1842.

Micromus canariensis n. sp.

Head, palpi and antennae yellowish white; apical joint of maxillary palpi brownish at its apex; basal joint of antennae stout and with a reddish brown spot on its upperside. Face and gnathae with indistinct brownish markings. The cavities in which the basal joints of the antennae are inserted, are dark brown margined. The top of the head with a transversely placed row of four large dark brown spots. Prothorax yellowish, at least as long as broad, with strongly rounded front angles, and with broad dark brown lateral margins. Meso- and metathorax yellowish and with a large dark brown spot above the root of each wing. Abdomen discoloured. Legs yellowish white. Fore and intermediate tibiae with a dark brown spot near apex exteriorly; an other spot a little above their middle. Legs and body with whitish pilosity. Wings hyaline. Fore wings brownish clouded between the longitudinal veins and especial along the posterior margin. The margins with distinct blackish brown streaks alternating with whitish ones. Four radial sectors; at their origin a distinct and conspicuous blackish spot. A dark radial spot at the cross vein between *R* and *Sc*. In the middle part of *1A* a series of small dark spots. Where *CU*₁ emits its first branch a group of small dark spots are present. Most of the cross veins black-

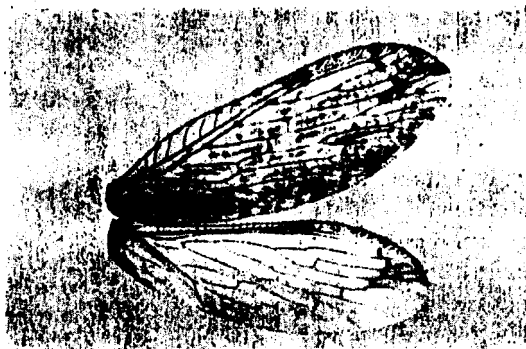


Fig. 2. *Micromus canariensis* ♂. Right fore and hind wing.

ish; those near apex broadly dark brownish shaded. M_2 touches Cu_1 for a very short distance. Pterostigma hardly indicated. Venation of hind wing whitish with the exception of Sc and R which are blackish for a short distance just before the pterostigmatical area. Also some of the cross veins in the apical gradate series together with the adjoining longitudinal veins (for a short distance) are blackish and partly blackish shaded. The extreme tip of the hind wing with a few small blackish marginal spots.

Fore wing 6—7 mm, hind wing 5,5—6 mm.

1 ♂ (Type) Tenerife, Tacoronte, 6. VII., at light, R. STORÅ leg.; 1 ♂ Tacoronte, 9. VII., R. FREY leg., 1 ♂ Tacoronte, No 3723, R. STORÅ leg. The last named specimen in the author's collection.

Besides these three specimens a fine and interesting variety is present in a single exeniplar. I name it *Micromus canariensis* var. *curvatus*. The specimen agrees in every respect with the type-series with the exception of that its fore wing possesses a conspicuous dark brown curved streak which arises at the base of the wing and runs up to the front margin, where it ends just before the pterostigmatical area.

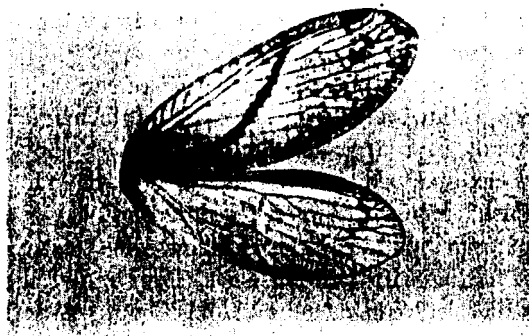


Fig. 3. *Micromus canariensis* var. *curvatus* ♂. Right fore and hind wing.

La Palma, Santa Cruz, 3. VIII., 1 ♂ (R. FREY).

Nefasitus Navas,

Memorias Real Acad. Barcelona, p. 131, 1915

N. Schmitzi Navas, loc. cit. p. 409, 1908.

Tenerife: Orotava, in the Hotelpark, 16. VII., 1 sp. (St.).

Distr.: Canaries and Madeira.

Fam. Myrmeleontidae

Formicaleo Leach,

Edinb. Encycl. IX, p. 138, 1815.

F. catta Fabricius, Syst. Ent. p. 312, 1792.

Tenerife: Pico di Teyde, Canadas, 21. VII., 3 sp. (St., Fr.).

Distr.: Canaries and Madeira.

Uroleon Brauer,

Sitzungsb. Akad. Wissensch. Wien 476, 1900.

U. caudatus Brauer, loc. cit. 476, 1900.

Gr. Canaria: Lor Lagunetas, 22. VIII., 1 sp. (St.). — Tenerife: Orotava, in the Hotelpark, 26. VII., 1 sp. (St.).

Distr.: Eridemic species.

Myrmeleon Linn.,

Syst. Nat. XII, p. 913, 1767.

M. alternans Brullé, Hist. Canar. II, pt. 2, p. 82.

Tenerife: San Andrés, 2. VIII., 1 sp. (St.). — La Palma: Los Llanos, 8. VIII., 1 sp. (St.).

Distr.: Canaries and Madeira.

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