

## DESCRIPTIONS OF THREE NEW EUROPEAN EPHEMERIDÆ.

BY HERMAN ALBARDA [COMMUNICATED BY THE REV. A. E. EATON].

## CENTROPTILUM TENELLUM, n. sp.

*Imago* ♂. *Oculi* turbinati atrii, inferiores fuscii. *Thorax* fuscus, politus. *Alæ* vitrinæ: anticæ nervis longitudinalibus prope basin, nervuloque humerali, castaneo-marginatis; posticæ ligulatæ, obtusæ. *Pedes* cretacci, coxis fuscis, femoribus tibiisque ad basin et apicem atro-fusco-cingulatis, femore antico insuper cingulâ præapicali ejusdem coloris. *Abdominis* segmenta 2—6 cretacea, puncturis furfurosis; cætera saturate castanea, subtus virescenti-grisea. *Setæ* forcepsque albæ.

*Long. corp.* ♂, 3; al. 4; set. 4 mm.

*Hab.*: the single male in my collection was taken by Mr. Van Medenbach de Rooy near Arnhem, Holland, on the 8th September, 1878.

This pretty little species may be easily separated from *C. luteolum*, Müll., by the obtuseness of its hind wings, which are rather like those of *C. stenopteryx*, and from *C. pennulatum*, Etn., as well as *C. lituratum*, Pict., by its small size and dark markings.

## ISONYCHIA FERRUGINEA, n. sp.

*Subim.* ♂ et ♀. *Oculi* maris fuscis (♀ pallidiores). *Thorax* luteo-piceus. *Alæ* luridæ, ad margines fumatæ, nervis transversalibus nigris, fusco-marginatis; anticæ prope costam nebulis fuscis spatia pallidiora includentibus. *Pedes* antici atro-picei, articulis tarsorum ad bases testaceis; posteriores testacei, tarsis fuliginosis, unguibus nigris. *Abdomen* fuscum, juncturis lineisque longitudinalibus abbreviatis in apices segmentorum binis obscurioribus. *Setæ* saturate testaceæ, ad bases obscuriores, pube brevi appressâ nisi ad juncturas ibique eadem in verticillis divergenti. *Forceps* fusca.

*Imago* ♂. *Oculi* fuliginosi [inter vitam opacæ, vel brunneo-carnei, cingulâ ex diametro ochraceâ, maculâ rotundâ (lineâve curvatâ) mobili nigrâ interruptâ intersecti.—A. E. EATON.] *Thorax* piceo-luteus. *Alæ* vitrinæ, arcâ pterostigmaticâ vix lurido-tinctâ: nervorum longitudinales subtestacei, transversales nigri, tenues, his tamen in arcâ supra dictâ parum incrassatis exceptis. *Pedes* antici atro-picei, articulis tarsorum ad bases pallide testaceis; posteriores flavo-testacei, articulo unguinali infuscato. *Abdomen* ferrugineum, juncturis et in apicibus segmentorum lineis abbreviatis binis piceis. *Setæ* pallide cervinæ, apud bases fusco-obscuratæ. *Forceps* fusca, articulo terminali pallidior.

♀. *Mari* pallidior. *Tarsus* anticus articulo unguinali piceo, cæteris albis, apicibus anguste piceis. *Processus* ventralis profunde emarginatus.

*Long. corp.* 12—15; al. 10—14; set. ♂ ♀ im. 25, subim. 16 mm.

*Hab.*: Holland: Arnhem, Vasserbeck (Van Medenbach de Rooy);

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South Holland (Van Walcheren); Rotterdam (Fransen). *France*: Amboise (Lelièvre); Toulouse, at gas lamps (Eaton). July and August.

AMETROPUS, *gen. nov.*

*Imago.* Tarsi posteriores quinque-articulati, tibiæ adnati suturâ subdiscretâ, articulo proximo modice longo. Abdominis segmentum penultimum (♀) haud infra in laminam productum. Setæ tres longæ. Alæ quatuor. Oculi maris integri; forceps quadri-articulata, articulo proximo paulo (fere dimidio ipsius longitudinis) secundo brevior.

[♂. Tarsi antici femore tibiâque conjunctim duplo, vel hæc solâ quintuplo, longiores; articulo proximo pæne duplo longiore tibiâ, in subimagine tamen eidem subæquali; postici articulo proximo dimidio longiore secundo, hoc quinto, pariterque tertio quarto subæqualibus, tertio brevior secundo.\*

♀. Pedum anticorum tarsi longitudine femori tibiæque conjunctim subæquales; tibia viâ longior dimidio femoris; proximo articulo tarsorum tibiâ parum breviori, cæteris decreascentibus et longitudine conjunctim tibiæ cum primo subæqualibus. Pedum posticorum tarsi femore parum breviores, femore tibiâ duplo longiore; articulo proximo et ultimo subæqualibus, singulis longitudine dimidio tibiæ æqualibus, secundo vel tertio duplo longioribus (his paribus), quarto omnium brevissimo.

Affinities with the *Siphylurus-Heptagenia* series of genera, approaching *Oniscigaster* and *Betisca* in the structure of the hinder legs, *Siphylurus* in the absence of the usual ventral lamina of the ninth abdominal segment of the female, and *Heptagenia* in the distribution of the veins adjacent to the inner margin (post-costa) of the anterior wing. The peculiarities of this neuration cannot be defined verbally in an intelligible manner.—A. E. EATON.]

AMETROPUS FRAGILIS, *n. sp.*

*Subim.* ♀. Thorax supra dilute hepaticus, subtus testaceus. Alæ pallide fumatæ, nervis longitudinalibus pallide flavescens. Pedes testacei, tarsi, tibiis, femorum anticorumque apicibus infuscatis. Abdomen fuscum, juncturis late testaceis. Setæ testacæ.

*Imago* ♂. Oculi fuliginosi. Tergum thoracis fusco-piceum. Alæ vitrinæ; nervi longitudinales pallide electro-colorati vel testacei, transversales limpidi atque in arcâ pterostigmaticâ numerosi subsimplices lenteque curvati. Pedes antici testacei, femoribus post medium tibiisque obscure piceis: posteriores pallide flavescens-lutei. Abdomen supra saturate fuscum, ad latera juncturasque testaceum; subtus flavescens, segmentis ultimis duobus infuscatis. Forceps testacæ. Setæ albide.

\* These proportions are stated somewhat in detail in the absence of figures. Even in figures of the legs of *Ephemeride* it is always necessary to make allowances for possible minor variations in the exact proportional lengths of the parts in individuals and in different species.—A. E. E.

♀. *Alarum nervi longitudinales testacei. Pedes antici rufo-picei, femoribus ad bases et juncturas, articuloque unguinali tarsorum, testaceis. Setæ pallidissime cervinæ, ad bases rubiginosæ.*

*Long. corp.* ♂, 15, ♀, 13; *al.* ♂, 14, ♀, 15; *set.* ♀ *im.* 22, *subim.* 12 mm.

*Hab.*: of this delicate looking species 1 ♂ im. and 2 ♀ subim. were taken near Arnhem (Holland) by Van Medenbach de Rooy, and 1 ♀ im. near Rotterdam by Franssen, all of which are in my collection.

Leeuwarden: September, 1878.

#### LIST OF THE HEMIPTERA OF NEW ZEALAND.

BY F. BUCHANAN WHITE, M.D., F.L.S.

(Continued from page 76).

##### Tribe CAPSINA.

Professor Hutton mentions no *Capsina* in his list of New Zealand insects, but Mr. Walker described three, which are reduced to two by Mr. Butler. Amongst the species now before me, none agree with the descriptions of the Walkerian species.

##### 33. *Megalocera* (*Megalocera*) *Reuteriana*, n. sp.

Linear, elongate, pale testaceous; head with a central longitudinal line and a line behind each eye, pronotum with the front margin, a longitudinal band on each side of the central line (running on to the apex of the scutellum) and an indistinct band on each side between that and the margin, scutellum with the basal angles, sternum with a longitudinal band on each side, sometimes continued on the abdomen, back of abdomen with a broad longitudinal band, fuscous-brown; last three joints of antennæ dusky reddish, especially upwards; antennæ (especially the stout basal joint) and legs with short black spiny hairs; middle and hind femora with indistinct small pale brown spots; apex of tarsi pitchy.

♂ ♀. Length, ♂, 5, ♀, 7 mm.; breadth, ♀, 1½ mm.

Three specimens from Mr. Wakefield. The markings vary much in intensity; the hemelytra seem a little clouded with brownish. A broken (♂) specimen is altogether much darker, but in too bad condition to describe.

##### MORNA, n. g.

Body oblong-oval, robust, nearly glabrous, punctate. Head shortly triangular, clypeus rather prominent. Eyes large, situated near and extending beyond the apex of pronotum, slightly emarginate on their inner side. Rostrum reaching to the mesosternum, the first joint attaining the base of the head. Antennæ inserted in front of