

Supplement by R. C. L. Perkins

to

ORTHOPTERA.

Vide pp. 1—16 hujus tomi.

ACRIDIOIDEA.

ATRACTOMORPHA Sauss.

(1) *Atractomorpha crenaticeps* Bl.

HAB. Oahu; now common round Honolulu; first appeared about 1900.

LOCUSTOIDEA.

HOLOCHLORA Stål.

(1) *Holochlora venosa*.

HAB. Oahu; the eggs inserted in young shoots of trees have been frequently found since 1896, but the mature insect is still rarely met with.

The determination of the above species and of the Mantid named below, were, I believe, kindly made by the authorities at the Dept. of Agriculture in Washington for some of the economic entomologists in the islands.

BRACHYMETOPA Redt.

Brachymetopa blackburni de B.

Brachymetopa discolor Redt., Perkins, Fauna Haw. II. p. 9.

In the Part 'Orthoptera' of the Fauna I have referred to the peculiar case of *B. discolor* and *B. blackburni*, but at the time of publication of that Part I had not sufficient evidence to warrant my uniting these as forms of one species. There is no doubt that they merely represent a striking case of dimorphism. Some years ago I spent two days investigating the matter and carefully examining every mature insect, that I could find. Of twenty-six adult ♂♂ 24 belonged to the var. *discolor*, the brownish-coloured black-faced form. Two males only were the green *blackburni* form. One of the latter was so far intermediate as to have a large triangular brownish or darkened area on the face, this marking being characteristic of the distinct Oahuan species *B. unica* P.

Fauna Hawaiiana, 1910. 2.

Of twenty-one females, one only was of the *discolor* var. but one or two of the other twenty (typical green *blackburni*) showed the triangular dark facial area as in the ♂ above referred to. In reality this variety can hardly be considered as a true intermediate form, but rather as a third constant variation, rare in either sex. It is certainly interesting to find this peculiarity of marking occurring as a constant specific character in *B. unica* of which I have, since its description, examined additional specimens.

It would appear then that about one ♂ in 13 of *B. blackburni* is green, typical or subtypical, the others being var. *discolor*, while of the females one in twenty-one only is var. *discolor* the others being the green form. Consequently there is exhibited a sexual dimorphism in *B. blackburni*, which is not yet quite complete, while a third form is of uncommon occurrence in either sex, in some respects forming a slight intermediate condition between the *blackburni* and *discolor* forms and resembling in colour another species of the genus, very distinct from and much rarer than *blackburni* but occurring with it.

I ought to add that all the specimens here considered were taken in the same locality.

GRYLLOIDEA.

(1) *Gryllus*, sp. ?

A commonplace species of *Gryllus* appeared in Honolulu in 1901 and has now spread into the country.

PARANEMOBIUS Alf. k.

(1) *Paranemobius schauinslandi* Alf. k.

What I take to be this species is an evidently¹ imported species, found in dirty and dusty houses, in closets, cellars, etc., in Honolulu and elsewhere.

LEPTOGRYLLUS P.

(1) *Leptogryllus cylindricus*, sp. nov.

Testaceous or ferruginous, becoming often more or less discoloured after death, the front tibiae and femora with faint fuscous spots or annulations, apex of first, the second and apex of third joints of hind tarsi and sometimes of the middle ones infuscate. Tip of ovipositor blackish, with numerous small teeth on each side, the apical ones the larger. Hind femora very slender, with many small fuscous spots outwardly. Tegmina squamiform, about covering the metanotum in the male, smaller in the female, their inner margins not nearly touching the middle line. Ovipositor of the female very long, considerably longer than the hind femur. Length of body without ovipositor 15 mm., ovipositor 13 mm., hind femur 10 mm.

HAB. Kauai, about 2500 ft.

¹ An examination of the figures of *P. schauinslandi* has since convinced me that it is not the household insect above referred to, and it is still unknown to me. R. C. L. P.

(2) *Leptogryllus apicalis*, sp. nov.

Colour, size and form generally as in *L. nigrolineatus*, the tegmina in the male covering nearly all the metanotum, the posterior femora dark or black for a large extent on the basal portion. Length ♂ 18 mm., hind femora 12 mm.

HAB. Molokai and Maui (3000 ft.).

(3) *Leptogryllus deceptor*, sp. nov.

Extremely like *L. nigrolineatus* having the same colouration but distinguished at once by the small laterally placed tegmina, leaving the metanotum mostly exposed, and the ovipositor is apparently longer. Female. Length of hind femora 12 mm.; ovipositor 9—10 mm.

HAB. Oahu, 1500—2000 ft.

PROGNATHOGRYLLUS Brunn.

The genus *Nesogryllus* is the male of *Prognathogryllus* and was originally separated largely on account of the quite different cerci. It is noteworthy that in the allied genera there is no such sexual difference in these organs. The species are difficult and specimens from the other islands are so close to the Kauai and Oahu forms, as to be inseparable without a good series of specimens, especially as those taken in numbers appear to show considerable variation.

MANTOIDEA.

A second species of this group has been imported to the island of Hawaii, where it is now common in some localities and spreading.

PARATENODERA Rehn.

(1) *Paratenodera sinensis* Sauss.

HAB. Hawaii; now common on the windward side; first taken in 1900.

BLATTOIDEA.

PANCHLORA Burm.

(1) *Panchlora maderae* F.

I omitted this species in my earlier paper on the Orthoptera, although it was known to me that it had occurred in Maui. It has since been found on Oahu, Molokai and Hawaii, and is no doubt generally distributed.

DERMAPTERA.

At least three species of earwigs have been imported and become established since my former list was made up. They are of little importance for the purposes of this work. The most conspicuous is a species of *Labidura*.

LABIDURA Leach.

(1) *Labidura icterica* Serv.

HAB. Oahu, Honolulu and in the country. It occurs as high as 1000 ft. or more in the mountains also.

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