

OTHER ORDERS

By

E. H. BRYAN JR.

Although most of the specimens of the small and obscure groups of insects collected by the Tanager Expedition are as yet unidentified, a summary of present knowledge concerning them is given in order to make this report as complete as possible.

THYSANURA

Thysanura were collected on Laysan, Midway, Gardner, Nihoa, Necker, and Wake islands. A large species was quite abundant on Nihoa and Necker islands, being found beneath rocks and in loose dirt.

COLLEMBOLA

Two minute specimens were collected on Midway Island, April 23, 1923 (Fullaway).

ISOPTERA

A species of "Cryptotermes" was found about buildings on Laysan Island, April 1923 (Fullaway). A single specimen of termite was also found in the Japanese shack on Wake Island (Edmondson).

NEUROPTERA

CHRYSOPIDAE

Chrysopa sp.

Ocean Island, April, 1923 (Fullaway). Midway Island, April 23, 1923 (Fullaway). Pearl and Hermes Reef, April 26-27, 1923 (Fullaway).

CORRODENTIA

PSOCIDAE

Psocids were captured on Nihoa, Necker, Midway, Ocean, and Wake islands. They are small species, some with conspicuously pictured wings, but are as yet unidentified.

THYSANOPTERA

A single specimen of thrip was captured on Ocean Island, April, 1923 (Fullaway).

MALLOPHAGA

The bird-lice collected on the Tanager Expedition were sent to Prof. G. F. Ferris, Stanford University, who was unable to work on them. They were recently returned, unidentified.

EMBIIDINA

Oligotoma insularis McLachl. (?)

Laysan Island, April 11, 1923 (Fullaway), under phosphate rocks and in trash. Nihoa Island, June 11-15, 1923 (Bryan), in trash, where long silken run-ways had been built, and winged males at lights. Necker Island, June 20, 1923 (Bryan), winged male at light.

ARACHNIDA

A large collection of spiders are at present in the hands of Prof. R. V. Chamberlin.

A number of specimens of Oribatidae are being worked up by Prof. Arthur P. Jacot.

A species of bird tick was found abundantly on Laysan Island, Ocean Island, Pearl and Hermes Reef, Lisiansky, Gardner, Necker, and Nihoa islands, French Frigate Shoals, Johnston and Wake Islands. It no doubt occurs also on the other islands.

Pseudoscorpions were collected on Johnston and Wake islands.

CRUSTACEA-ISOPODA

Sow-bugs were collected on Laysan, Lisiansky, Nihoa, Necker, Johnston, and Wake islands and on French Frigate Shoals. They have not yet been determined.