

Insect Records from Johnston Island¹

By L. M. CHILSON

Johnston Island is a small atoll, about 700 miles west-southwest of Honolulu, consisting of two tiny islets and a reef some 12 miles around. Its insect fauna is necessarily limited, and until the recent war, was but little known. The present list is believed to include all known insect records from Johnston to mid-summer of 1952. About half of the species were collected for the first time by Kenneth L. Maehler during visits in 1947 and 1952; unless otherwise noted, he made the captures listed here. Other records were made earlier, notably by members of the Bishop Museum's "Tanager" Expedition in 1923, and by Ashley C. Browne in 1942. The results of the "Tanager" Expedition were published in 1926 as a Bishop Museum Bulletin, and citations of "Bull. 31" refer to that report on the "Tanager" collections. References to "PROCEEDINGS" are to the Proceedings of the Hawaiian Entomological Society.

ORTHOPTERA

Blattidae

Blattella lituricollis (Walker); det. A. B. Gurney. June 1, 1952, on the ground.

Cutilia soror (Brunner) (Bull. 31:89).

Periplaneta americana (L.) (Bull. 31:89).

Pycnoscelus surinamensis (L.) (Bull. 31:89).

DERMAPTERA

Labiduridae

Anisolabis maritima (Géné) (Bull. 31:82).

Euborellia annulipes (Lucas); det. A. B. Gurney. December 9, 1947, under board. Also taken by the "Tanager" party (Bull. 31:82).

MALLOPHAGA

Menoponidae

Austromenopon sternophilum (Ferris); det. C. F. W. Muesebeck. June 1, 1952, on tern.

THYSANOPTERA

Aeolothripidae

Frankliniella sulfurea Schmutz. Taken on Johnston by Krauss in 1946 ("PROCEEDINGS," 13: 9).

HEMIPTERA

Lygaeidae

Nysius terrestris Usinger. Taken by Krauss in 1946 ("PROCEEDINGS," 13:9).

Geocoris punctipes (Say); det. R. I. Sailer. Collected by L. B. Loring, July 8, 1948, on *Vitex trifolia*.

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Reduviidae

Zelus renardii Kolenati; det. E. C. Zimmerman. December 9, 1947, on *Scaevola frutescens*; June 1, 1952, on *Pluchea indica*.

Nabidae

Nabis capsiformis Germar (Bull. 31:80; as *Reduviolus*).

Gerridae

Halobates sericeus Eschscholtz (Bull. 31:80).

HOMOPTERA**Aphididae**

Aphis gossypii Glover; det. L. M. Russell. June 1, 1952, on *Pluchea indica*.

Aphis medicaginis Koch; det. L. M. Russell. December 9, 1947, on *Tribulus cistoides* and *Portulaca oleracea*. Collected earlier by "Tanager" Expedition and by Browne. (Bull. 31:81; "PROCEEDINGS," 11:271, 1943).

Margarodidae

Iterya purchasi Maskell; det. Harold Morrison. December 9, 1947, on *Pluchea indica*; June 1, 1952, on *Scaevola frutescens*.

Pseudococcidae

Pseudococcus (citri complex); det. Harold Morrison. December 9, 1947, on *Scaevola* sp.

Pseudococcus sp. perhaps *citri* (Risso); det. Harold Morrison. December 9, 1947, on "be-still" tree (*Thevetia*).

Ferrisiana virgata (Cockerell); det. H. Morrison. Collected by L. B. Loring, July 8, 1948.

Coccidae

Coccus sp.; det. H. Morrison. Collected by L. B. Loring, July 8, 1948, on *Hibiscus tiliaceus*.

Coccus hesperidum L.; det. Harold Morrison. December 9, 1947, on "be-still" tree and an undetermined plant.

Saissetia nigra (Nietner); det. Harold Morrison. June 1, 1952, on *Ricinus communis*.

Saissetia oleae (Bernard); det. Harold Morrison. June 1, 1952, on *Hibiscus* sp.

Diaspididae

Aspidiotus lataniae Signoret; det. Morrison. December 9, 1947, on *Crotalaria* and an undetermined "sage."

Chrysomphalus dictyospermi (Morgan); det. H. Morrison. Collected by L. B. Loring, July 8, 1948.

Pinnaspis sp. (insufficient material); det. Morrison. December 9, 1947, on *Thespesia populnea*.

Pinnaspis strachani (Cooley) (of Ferris and Rao); det. Morrison. December 9, 1947, on *Tribulus cistoides*.

NEUROPTERA**Hemerobiidae**

Symphorobius sp., may be *barberi* Banks; det. A. B. Gurney. December 9, 1947, flying. Krauss took *S. barberi* on Johnston in 1946 ("PROCEEDINGS," 13:9).

LEPIDOPTERA**Tineidae**

Tineola uterella Walsingham (Bull. 31:76).

Ereunetis incerta Swezey (Bull. 31:77).

Pterophoridae

Trichoptilus oxydactylus (Walker) (Bull. 31:75).

Phalaenidae

Achaea janata (L.); det. H. W. Capps. December 9, 1947, on *Ricinus communis*.

Laphygma exempta (Walker). Determined by O. H. Swezey from caterpillars collected by Browne ("PROCEEDINGS," 11:281).

Laphygma exigua (Hubner). This species was reported from Johnston as early as 1943 ("PROCEEDINGS," 12:10, 1944).

COLEOPTERA**Dermestidae**

Dermestes ater Degeer. Collected by both the "Tanager" Expedition (under dead birds) and by Browne (Bull. 31:46; "PROCEEDINGS," 11:271). (As *D. cadaverinus* F.).

Histeridae

Carcinops quattuordecimstriata (Stephens) (Bull. 31:47).

Anobiidae

Lasioderma serricornis (F.) (Bull. 31:48).

Tenebrionidae

Alphitobius piceus (Olivier); det. R. E. Blackwelder. June 1, 1952, from dead bird. Previously recorded with a query by "Tanager" Expedition (Bull. 31:48).

Coccinellidae

Coelophora inaequalis (F.); det. E. A. Chapin. December 9, 1947, on *Scaevola frutescens*.

Scymnus loewii Mulsant; det. E. A. Chapin. December 9, 1947, on *Thespesia populnea*.

Scymnus notescens Blackburn ?; det. E. A. Chapin. June 1, 1952.

Curculionidae

Dryotribus mimeticus Horn (Bull. 31:55).

Macrancylus immigrans (Perkins) (Bull. 31:57).

HYMENOPTERA**Encyrtidae**

Aenasius advena Compere; det. B. D. Burks. June 1, 1952, in flight. Collected on Johnston in 1946 by Krauss ("PROCEEDINGS," 13: 9).

Leptomastix dactylopii Howard; det B. D. Burks. June 1, 1952.

Formicidae

Solenopsis geminata rufa (Jerdon); det. M. R. Smith. December 9, 1947, associated with *Icerya purchasi* on *Pluchea indica*; June 1, 1952, on ground.

Monomorium pharaonis (L.) The late Dr. W. M. Wheeler believed that the Johnston Island forms of this ant should be separated as a new subspecies (Bull. 31:18).

Cardiocondyla sp.; det. M. R. Smith. December 9, 1947, on *Pluchea indica*.

Tetramorium guineense (F.); det. M. R. Smith. June 1, 1952, on the ground.

Paratrechina (*Nylanderia*) sp.; det. M. R. Smith. December 9, 1947, associated with *Icerya purchasi* on *Pluchea indica*.

Paratrechina longicornis (Latreille); det. M. R. Smith. June 1, 1952, on the ground.

Sphecidae

Chalybion bengalense (Dahlbom); det. K. L. Maehler. Taken by Maehler June 1, 1952.

Vespidae

Polistes fuscatus aurifer Saussure; det. K. V. Krombein. December 9, 1947, in flight.

Megachilidae

Megachile fullawayi Cockerell; det. K. V. Krombein. June 1, 1952, on *Pluchea indica*.

DIPTERA**Syrphidae**

Simosyrphus (Xanthogramma) grandicornis (Macquart) (Bull. 31:68). Bryan notes that this species was seen but not captured. (A synonym of the following species).

Xanthogramma scutellaris (F.); det. W. W. Wirth. June 1, 1952, flying.

Syrphus sp.; det. C. T. Greene. December 9, 1947, with aphids.

Sarcophagidae

Goniophyto bryani Lopes. This is the species reported by the "Tanager" Expedition as a new genus and species (Bull. 31:68). It was described as *G. bryani* in 1938 (Bishop Mus. Occ. Papers, Vol. 14, No. 11:195).

Sarcophaga sp.; det. C. W. Sabrosky. June 1, 1952, flying.

Sarcophaga dux Thomson; det. Sabrosky. June 1, 1952, flying.

Sarcophaga barbata Thomson. Reported by Krauss in 1946 ("PROCEEDINGS," 13:9).

Calliphoridae

Phaenicia sp.; det. Sabrosky. June 1, 1952, flying.

Muscidae

Musca domestica L. Reported by Browne ("PROCEEDINGS," 11:271).

Musca domestica vicina Macquart (Bull. 31:68). Considered by some a subspecies of *domestica* ("PROCEEDINGS," 14:480, 1952).

Atherigona excisa (Thomson). Recorded with a query by Swezey from material collected by Browne ("PROCEEDINGS," 11:271).

Milichiidae

Desmometopa sp. Reported as *D. m-nigrum* Zetterstedt by Krauss in 1946 ("PROCEEDINGS," 13:9).

Agromyzidae

Agromyza pusilla Meigen (Bull. 31:70). Recorded in the "Tanager" report as ". . . abundant about Tribulus blossoms." Recent studies by Frick show the *pusilla* complex in the Pacific consists of numerous species, probably none of them *pusilla*.

Hippoboscidae

Olfersia spinifera (Leach); det. Alan Stone. June 1, 1952, from frigate birds. This fly was also collected by the "Tanager" Expedition (Bull. 31:71).