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Fauna Fijiana (Scolytoidea)*

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INTRODUCTION

Bishop Museum kindly sent to me a rather large collection of Scolytidae and Platypodidae, collected in various places in Fiji during the past 20 years, which includes most of the species of the local fauna. Because of the exact data attached to the specimens, it represents a valuable contribution to our knowledge of the entire fauna of Oceania. Additional specimens from Fiji were sent to me by the Commonwealth Institute of Entomology in London, and identifications of these are included in this paper. A third lot of Fiji bark and ambrosia beetles was found in the collection of the late Forstrat Eggers, most of them single specimens mainly of the difficult group Cryphalinae.

C. F. C. Beeson, in his checklist of the Scolytidae and Platypodidae of Oceania (Fed. Malay States Mus., Jour. **18**, 1938), lists four species from Fiji: *Hylesinus subopacus* Eggers, *Xyleborus torquatus* Eichhoff, *Crossotarsus externedentatus* Fairmaire, and *Platypus gerstaeckeri* Chapuis. Since then, many other species have been recorded, so that it seems worth while to publish a new list of bark and ambrosia beetles of Fiji, including new records, literature up to date, and a host plant record.

SYNONYMY

In 1942, W. M. Blackman described *Phloeosinus squamosus* from the state of Washington (U. S. Nat. Mus., Proc. **92**: 448, December) and in the same year I described a species with the same name from Australia (Mitt. Münch. Ent. Ges. **32**(1): 165). As my species was

*94. Contribution to the Morphology and Taxonomy of the Scolytoidea.

published earlier in the year, it has priority over *P. squamosus* Blackman, which I now propose to call *Phloeosinus blackmani* Schedl.

On examining the antennae of various Cryphalinae, the following changes have to be made. *Cryphalus proximus* Eggers belongs in the genus *Coriacephylus* Schedl, *Cryphalus angustior* Eggers, in the genus *Hypocryphalus* Hopkins, *Stephanoderes sundaesis* Eggers and *S. hispidus* Eggers, in the genus *Hypothenamum* Westwood. In F. G. Browne's paper (Malay For. 7:28, 1938), *Xyleborus subnacrus* Schedl is a misprint for *X. subnaevus* Schedl.

In a paper by O. H. Swezey (Notes on food-plant relations of Scolytidae and Platypodidae in the Hawaiian Islands, Hawaiian Ent. Soc., Proc. 11: 125, 1941) a reference is made to *Xyleborus spinulosus* Schedl instead of to *X. spinosulus* Schedl. *X. spinulosus* is a different species which was described by Blandford.

CHECKLIST OF FIJIAN SCOLYTOIDEA

Hylesinus subopacus Eggers, Wien. Ent. Zeitung 47: 10, 1930 (Viti Levu: Suva; no other record).

Hylesinus robustus Eggers, Ent. Blatt. 35: 223, 1939 (Fiji Islands: Taveuni).

Viti Levu: Navai Mill, near Nandarivatu, alt. 2,500 ft., Sept. 15, 19, 1938 (male, female); Tholo-i-Suva, beating shrubs, July 27, 1938. Ovalau: near Vuma, alt. 700 ft., July 14, 1938 (male, female). All by Zimmerman (Bishop Museum).

Scolytomimus maculatus Beeson, Ins. Samoa 4 (4): 223-224, 1929 (Samoa).

Viti Levu: Tholo-i-Suva, beating shrubs, July 27, 1938; Navai Mill, near Nandarivatu, alt. 2,500 ft., beating shrubs, Sept. 17, 1938. Ovalau: Thawathi, alt. 800 ft., beating dead branches, July 16, 1938. Lakemba: Toumbo, beating shrubs, Aug. 20, 1938. All by Zimmerman (Bishop Museum).

Lepicerinus fijianus, new species.

Viti Levu: Navai Mill, near Nandarivatu, alt. 2,700 ft., ex rotten log, Sept. 7, 1938; Nandarivatu, alt. 3,200 ft., ex rotten log, Sept. 5, 6, 1938, alt. 3,600 ft., ex rotten log, Sept. 6, 1938; Nandarivatu, ridge north of Vatuthere, alt. 2,600-3,000 ft., beating shrubbery, Sept. 8, 1938. Moala: 1 mile west of Naroi, alt. 700 ft., beating shrubs, Aug. 25, 1938. All by Zimmerman.

Lepicerinus puncticollis, new species.

Viti Levu: Navai Mill, Tholo North, alt. 2,500 ft., Sept. 15, 1938; Navai Mill, near Nandarivatu, alt. 2,500 ft., beating shrubbery, Sept. 15, 1938, alt. 2,700 ft., beating shrubbery, Sept. 7, 1938; Tholo-i-Suva, alt. 2,500 ft., July 25, 1938; alt. 500 ft., beating shrubbery, July 25, 1938. All by Zimmerman.

Lepicerinus gracilis, new species.

Fiji Islands, ex Eggers collection.

Lepicerinus nigellatus, new species.

Fiji, without further data.

Stephanoderes alter Eggers, Zool. Mededeel. Leyden 7: 219, 1923 (New Guinea, Neu Pommern, Philippine Islands, Borneo, Medan).

Lau Islands, Mango: one mile south of Marona, alt. 200-300 ft., ex dead coconut fronds, Aug. 14, 1938, Zimmerman. Namuka, Dec. 8, 1924, E. H. Bryan, Jr. Vanua Mbalavu: Bavatu, alt. 200-300 ft., Aug. 16, 1938, Zimmerman. All Bishop Museum.

Stephanoderes darwinensis Schedl, Mitt. Münch. Ent. Ges. 32: 178, 1942 (Australia: Queensland).

Doloi Levu [?], Aug. 18, 1942, ex avocado, R. A. Lever (British Museum).

Stephanoderes curtipennis, new species.

Vanua Mbalavu: Loma Loma, alt. 200-500 ft., Aug. 5, 1938, Zimmerman. Viti Levu: Belt Road, 35 miles west of Suva, alt. 10-250 ft., July 23, 1938, Y. Kondo. Vanua Mbalavu, Bavatu, Aug. 16, 1938, and Viti Levu, Lami Quarry, near Suva, July 24, 1938, Zimmerman (probably males).

Stephanoderes adscitus, new species.

Fiji Islands, ex Eggers collection.

Viti Levu: Suva, from twigs of *Acalypha*, Dec. 25, 1938, R. A. Lever (British Museum).

Stephanoderes dorsosignatus, new species.

Fiji Islands: Suva, ex Eggers collection.

Cryphalus capucinicollis, new species.

Viti Levu: Navai Mill, near Nandarivatu, alt. 2,500 ft., Sept. 17, 1938, beating shrubs, one specimen; Nandarivatu, alt. 2,700 ft., Sept. 7, 1938, at light, one specimen; both by Zimmerman.

Cryphalus capucinomorphus, new species.

Viti Levu: Tholo-i-Suva, alt. 500 ft., beating shrubs, July 21, 1938; Navai Mill, near Nandarivatu, alt. 2,500 ft., beating shrubs, Sept. 17, 1938, Zimmerman. Vanua Mbalavu: Mvana, alt. 200 ft., beating shrubs, Aug. 9, 1938, Zimmerman.

Cryphalus sylvicola Perkins variety **obliquus**, new variety.

Vanua Mbalavu: Loma Loma, alt. 200-500 ft., beating shrubs, Aug. 5, 1938, Zimmerman. Ovalau: near Vuma, alt. 700 ft., ex rotten log, Zimmerman.

Cryphalus dimorphus, new species.

Vanua Mbalavu: Loma Loma, alt. 200-500 ft., beating shrubs, Aug. 5, 1938; Mvana, alt. 200 ft., beating shrubs, Aug. 9, 1938; all by Zimmerman.

Cryphalus variolosus, new species.

Viti Levu: Navai Mill, near Nandarivatu, alt. 2,500 ft., beating shrubs, Sept. 17, 1938; Zimmerman. Ovalau: near Vuma, alt. 700 ft., ex rotten log, July 14, 1938; Zimmerman.

Cryphalus strigipennis, new species.

Viti Levu: Tholo-i-Suva, alt. 500-1,000 ft., beating shrubs, July 21, 1938; Navai Mill, near Nandarivatu, alt. 2,500 ft., beating shrubs, Sept. 17, 1938; all by Zimmerman.

Cryphalus elaboratus, new species.

Vanua Mbalavu: Loma Loma, alt. 200-500 ft., beating shrubs, Aug. 5, 1938; Mvana, alt. 200 ft., beating shrubs, Aug. 9, 1938; all by Zimmerman.

Cryphalus zimmermani, new species.

Viti Levu: Navai Mill, near Nandarivatu, alt. 2,500 ft., Sept. 16, 1938, Zimmerman.

Hypothenemus gossypii Sampson, Simmonds, Dept. Agric. Fiji, Agric. Circ. 5(1): 61-62, 1924. (Possibly a nomen nudum. Beeson, Fed. Malay States Mus., Jour. 18: 295, 1938.)

Hypothenemus subglabratus Schedl, Mitt. Münch. Ent. Ges. 32: 174, 1942 (Fiji; no other record).

Poecilips fijianus Schedl, Mitt. Münch. Ent. Ges. 32: 179, 1942 (Fiji Islands).

