

**A List of Parasitic Hymenoptera Collected by F. X. Williams
in New Caledonia**

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For some years the author has paid particular attention to the Parasitic Hymenoptera collected on islands located in the Pacific Ocean, mainly through the kindness of the entomologists at the Bishop Museum and the H.S.P.A. Experiment Station in allowing me to study their extensive collections of these insects. The collection made by Dr. F. X. Williams during an extended tour in New Caledonia in 1940 is a very interesting one from the viewpoint of geographical distribution, and I believe the publication of a list of the species, although many of them cannot at present be accurately identified, would be of some use to future workers in this field.

EVANIIDAE

Evania appendigaster (Linn.). Noumea, July 4, 1940, 1 example.

Evania sericea Cam. Oua Tom, Sept. 19, 1940, 1 example.

Evania laevipetiolata Turner. Thi River Valley, Nov. 6, 1940, and Noumea, 2 examples.

Gasteruption sp. Thi River Valley, Nov. 8, 1940, 5 examples.

ICHNEUMONIDAE

Ichneumonini

Ichneumon promissorius Erich. Col. de la Pirogue, Sept. 1940, 1 ex.; Noumea, Sept.-Oct. 1940, 3 ex.; St. Louis, Oct. 1940, 1 ex.; Hienghene, Oct. 5, 1940, 2 ex.; La Foa, Sept. 1940, 1 ex.; Thi River Valley, Nov. 6, 1940, 1 example.

Amblyteles sp. Noumea, Oct. 17, 1940, 1 example.

Acolobus sp. Yahoue, Sept. 1940, 1 example.

Cryptini

Mesostenus sp. Thi River Valley, Nov. 1-8, 1940, 2 examples; Yahoue Valley, Aug. 29, 1940, 1 example.

Buodias unicolor Turner. Noumea, Sept. 23, 1940, 1 example.

- Cosmiocryptus** sp. St. Louis, Aug. 17, 1940, 1 male.
Spilocryptus sp. St. Louis, Oct. 14, 1940, 1 example.
Cryptus sp. Mt. Dzumao, Sept. 4, 1940, ex *Tristania* ? flowers, 1 example.
Paurophatnus sp. Oua Tom, Sept. 19, 1940, 1 example.

Pimplini

- Phytodietus austrocaledonicus** Turner. Mt. Mou, Aug. 21, 1940, 3900 ft., 1 female.
Coleocentrus sp. Yahoue Valley, Sept. 11, 1940, 1 example; Nepoui Valley, July 1940, 1 example.
Certonotus n. sp. Hills behind Noumea, Oct. 16, 1940, 1 example.
Eugalta sp. Thi River Valley, Nov. 8, 1940, 1 female.
Lissopimpla pacifica Morley. Nepoui Valley, July 1940, 3 examples; St. Louis, Aug. 1940, 2 examples.
Theronia simillima Turner. Thi River Valley, Nov. 6-8, 1940, 3 females; Noumea, July-Sept., 5 females, piercing *Melaleuca* bark to get at noctuid pupa.
Echthromorpha quodi Vachal (*equisita* Morley). Thi River Valley, Nov. 6, 1940, 2 females; possibly 1 male from Noumea, Sept. 9, 1940.
Echthromorpha platymischa Vachal (*inermis* Morley). St. Louis, Oct. 14, 1940, 2 females, 4 males; Prony Bay, Oct. 22, 1940, ex *Nepenthes* tube, 1 female; Noumea, July-Nov. 1940, 3 females, 12 males; Nepoui Valley, July 1940, 5 males; Thi River Valley, Nov. 6, 1940, 3 females; Yahoue Valley, Aug. 29, 1940, 1 male; St. Louis, Aug. 17, 1940, 1 male.
Echthromorpha ceramocare Vachal (*bitecta* Morley). Nepoui Valley, July 1940, 4 males; Thi River Valley, Nov. 1-6, 1940, 6 females.
Echthromorpha semperi Krieger. Nepoui Valley, July 1940, 1 male.

Tryphonini

- Scolobates** sp. Noumea, Sept. 2, 1940, Mt. Mou, Aug. 21, 1940, 2 examples.
Diplazon (Bassus) laetatorius (Fabr.). Noumea, Oct. 30, 1940; Isle of Pines, Oct. 24, 1940, 2 examples.

Ophionini

Campoplex karkil Cheesman. Noumea, Sept. 17-26, 1940, 2 examples; Thi River Valley, Nov. 6-8, 1940, 2 examples; Hills behind Noumea, Oct. 19, 1940, 1 example; Nepoui Valley, July 1940, 1 example.

Enicospilus coarctatus Brullé. Thi River Valley, Nov. 1, 1940, 1 example.

Enicospilus obliquus Morley (*bakeri* Cheesman?). St. Louis, Aug. 17, 1940, 1 example.

Enicospilus nigrinervis Cam. (*rhoedae* Cheesman?). Thi River Valley, Nov. 1, 1940, 1 example.

Enicospilus gardei Morley. Thi River Valley, Nov. 1, 1940, 1 example.

Enicospilus trinotatus Morley. Noumea, Sept. 13, 1940, 1 example; Thi River Valley, Nov. 6, 1940, 1 example.

Zachresta lua Cheesman. Noumea, July-Aug. 1940, 1 example.

Angitia sp. Mt. Mou, Aug. 21, 1940, 1 example.

Zaporus sp. Noumea, Aug.-Nov. 1940, 5 examples.

Mesochorus sp. La Foa, Sept. 1940, 1 example.

Hymenobosmina iavilai Cheesman. Nouville, Aug. 9, 1940, 1 example.

Paniscus antipodum Vachal. St. Louis, July-Oct. 1940, 13 examples; Noumea, Aug.-Sept. 1940, 8 examples; Isle of Pines, Oct. 29, 1940, 1 example; Oua Tom, Sept. 19-20, 1940, 3 examples; Thi River Valley, Nov. 8, 1940, 1 example; Nepoui Valley, July 1940, 4 examples.

Ophion sp. Hills behind Noumea, July 17, 1940, and Noumea, Aug. 1940, 2 examples.

Agrypon omabensis Cheesman. Thi River Valley, Nov. 8, 1940, 1 example.

ALYSIIDAE

Alysia sp. Noumea, Sept. 9, 1940, swept off turnip plants, 3 examples.

STEPHANIDAE

Stephanus sp. Prony Bay, Oct. 22, 1940, 2 examples.

BRACONIDAE

- Bracon** sp. (reddish brown). Oua Tom, Sept. 20, 1940; hills behind Noumea, Aug. 18, 1940, beaten ex forest tree, 2 examples.
- Ipobracon novocaledonicus** Szepi. Yahoue Valley, Aug. 14 and 29, 1940, 2 examples; Thi River Valley, Oct. 24 and Nov. 1-8, 1940, 6 examples.
- Iphiaulax** sp. Oua Tom, Sept. 19, 1940, 1 example.
- Cyanopterus rutilans** Turner. Thi River Valley, Nov. 1-8, 1940, 4 examples; Isle of Pines, Oct. 24, 1940, 1 example; Nepoui Valley, July 1940, 1 example.
- Bracon** sp. Mt. Dzumao, Sept. 4, 1940, ex *Tristania* ? flowers, 1 example and beaten off forest tree.
- Spathius** sp. Thi River Valley, Nov. 8, 1940, 1 example.
- Ontsira** sp. Noumea, Aug. 19, 1940, 1 example.
- Ischiogonus** sp. Noumea, Sept. 6, 1940, beaten ex *Vitex negundo* trees.
- Chelonus** sp. Yahoue Valley, Aug. 29, 1940, ex large leaves and rough scaly stem of forest taro, 2 examples; Nakety, Oct. 9, 1940, 1 example.
- Phanerotoma** sp. Noumea, July-Aug. 1940, 4 examples.
- Apanteles** sp. Isle of Pines, Oct. 1940, 1 example; Houailou River, Oct. 7, 1940, 1 example.
- Orgiloneura** sp. Hienghene, Oct. 5, 1940, 1 example (river coast).
- Aphidius** sp. Noumea, Sept. 9, 1940, swept off turnip plants.
- Zele** sp. Noumea, 1940, 1 example.
- Apanteles** sp. Noumea, July-Nov. 1940, ex-pigeon pea leaf-roller material, 1 example, and swept off grass and yellow *Ipomoea* flowers, 1 example; Mt. Dzumao, Sept. 4, 1940, ex *Tristania* ? flowers, 1 example.

CHALCIDIDAE

- Chalcis** sp. Noumea, July-Nov. 1940, 8 examples; Hienghene estuary river-shore, beaten ex trees and shrubs, Oct. 5, 1940, 1 example; Dzumao, 1940, 1 example.
- Chalcis** sp. La Foa, Sept. 1940, 1 example; Noumea, July-Aug. 1940, 2 examples; St. Louis, Oct. 29, 1940, 2 examples; Isle of Pines, Oct. 1940, 1 example; Hills behind Noumea, July-Aug. 1940, 1 example.

- Leucospis antiqua** Walk. Noumea, Oct.-Nov. 1940, 6 examples; Hills behind Noumea, Oct. 19, 1940, 1 example; Prony Bay, Oct. 22, 1940, 1 example; Nepoui Valley, July 1940, 1 example; Thi River Valley, Nov. 6, 1940, 1 example.
- Dirhinus** sp. Noumea, Aug. 26, Nov. 5, 1940, ex *Acacia laurifolia*, beaten off live and dead branches, 2 examples.
- Miscogasterid**. Nepoui, Aug. 1940, on sugar cane, 1 example; Hills behind Noumea, July 17, 1940, 1 example.
- Podagrion** sp. Noumea, Aug.-Sept. 1940, 2 examples, ex Mantid egg-case.
- Eurytomid**. Near Mt. Dzumao, Sept. 1940, sweeping, 1 example; Thi River Valley, Nov. 8, 1940, 1 example.
- Eupelmid**. Noumea, Aug.-Nov. 1940, 11 examples; Hills behind Noumea, Aug. 1940, 12 examples; on *Melaleuca* ("Niaouli") bark; Noumea, July-Oct. 1940, 4 examples; Hills behind Noumea, Aug. 1940, 3 examples; Nepoui Valley, July 1940, 1 example, on *Melaleuca* ("Niaouli") bark; Noumea, Oct. 1940, 1 example; Nouville, Aug. 8, 1940, 2 examples.
- Eupelmid** (yellow). Yahoue Valley, Aug. 29, 1940, large leaves and rough scaly bark of forest taro, 1 example.
- Encyrtid**. Nouville, Aug. 10, 1940, ex green *Hibiscus tiliaceus* psyllid (*Mesohomotoma hibisci* [Froggatt]).
- Melittobia hawaiiensis** Perkins. Near Noumea, Sept. 1940, ex *Eumenes* pupae, 14 examples (on 3 tags).
- Eulophid**. Noumea, Nov. 1940, 2 examples and near Nondhoue, Sept. 9, 1940, ex *Grevillea* and pigeon pea lepidopterous leaf-miner material, 2 examples; Hills behind Noumea, July-Aug. 1940, 2 examples; Noumea, Sept. 1940, ex dipterous turnip leaf-miner.

PROCTOTRUPIDAE

- Sclerodermus** sp. Hills behind Noumea, Aug. 1940, Niaouli (*Melaleuca*) trees, 2 examples.
- Diapriid**. Nepoui, Aug. 1940, sugar cane, 1 example.
- Goniozus** sp. Noumea, Aug. 13, 1940, broad-leaf *Acacia*, 1 example.
- Telenomus** sp. Hills behind Noumea, Aug. 15, 1940, beaten ex dwarf *Casuarina*, 1 example.

CYNIPIDAE

- Cynipid**. Noumea, Aug.-Sept. 1940, ex dipterous turnip leafminer *Liriomyza pusilla*, 8 examples (on 2 tags).