

## HOST PLANT AND DISTRIBUTION RECORDS OF SOME INSECTS IN NEW GUINEA

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In this paper, I list 57 host plants and 53 distribution records of some insects<sup>1</sup> from 10 of the 14 districts of the Territory of Papua and New Guinea. Families within the orders, genera within the families and species within the genera are mentioned in alphabetical order. The generic and specific names of the insects are printed in bold-face type, those of the plants are in italics. In some cases ecological remarks are made (population density, feeding habits, parasitism, etc.); these can be found after the name of the host plant and before the name of the locality where the insects were found associated with the host plant. Then follows the date of collection and finally the name of the collector<sup>2</sup> in parentheses. If there is more than one locality for a host plant, the ecological remarks follow the appropriate localities. The boundaries of the various districts are shown on the map. The following abbreviations are used: NE NG—Northeast New Guinea; E. Hlds.—Eastern Highlands; W. Distr.—Western District; C. Distr.—Central District; N. Distr.—Northern District.

### ISOPTERA

#### Rhinotermitidae

**Coptotermes hyaloapex** Holmg. *Pometia pinnata*: Brown River (Experimental Blocks of the Dept. of Forests), C. Distr., Papua, Jan. 1959 (F. Coppock).

### HEMIPTERA—Heteroptera

#### Coreidae

**Amblypelta lutescens papuensis** Brown. *Abroma augusta*: Lolorua Plantation, C. Distr., Papua, May 1958 (Sz. I.). *Carica papaya*: Daradai Plantation, C. Distr., Papua, 30 July 1958 (W. E. Casey and Sz. I.); Laloki, C. Distr., Papua, July 1959 (F. J. Simmonds and Sz. I.). Port Moresby—Boroko, dense populations, Dec. 1957–Feb. 1958 (Sz. I.). *Ipomoea batatas*: dense populations Doa Plantation, C. Distr., Papua, May 1958 (W. A. Van den

1. Appreciation is expressed for the identification of insects to Mr. M. E. Bacchus, Mr. E. S. Brown, Mr. R. J. Collins, Mr. E. A. J. Duffy, Dr. V. F. Eastop, Mr. F. Gay, Mr. N. C. E. Miller, Mr. W. H. T. Tams, Mr. R. T. Thompson and Dr. D. L. Williams.
2. My name, as collector, is mentioned thus; "Sz. I."

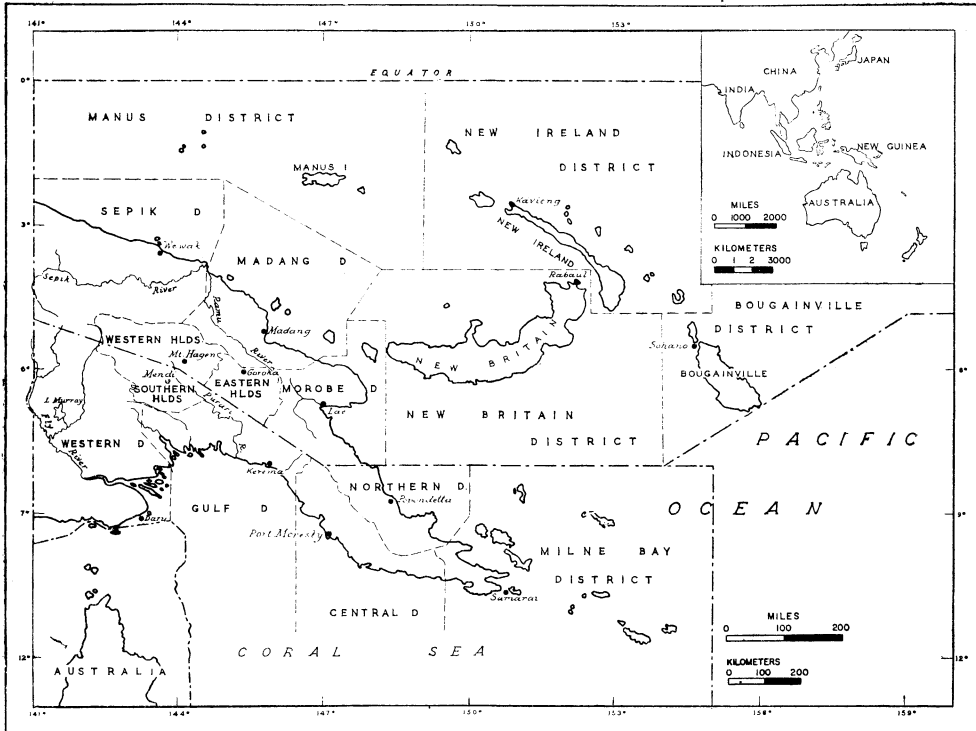


Fig. 1. Map of Territory of Papua and New Guinea showing districts.

Berk & Sz. I.); Laloki, C. Distr., Papua, May 1959 (Sz. I.). *Mangifera indica* (Fruit): Port Moresby—Boroko, C. Distr., Papua, 16 July 1958 (F. Mollinger). *Manihot utilissima*: Aroa Estate, C. Distr., Papua, Sept. 1958 (E. D. Cleland); Brown River, C. Distr., Papua, stem attacked by dense populations of all instars, 10 July 1957 (D. Shaw, M. L. Szent-Ivany and Sz. I.); Peto village, Gulf Distr., Papua, dense populations, May 1959 (A. Catley, F. X. Ryan and Sz. I.); Port Moresby—Boroko, C. Distr., Papua, dense populations, Dec. 1957—Feb. 1958 (Sz. I.). *Plumeria acutifolia*: Port Moresby—Boroko, C. Distr. Papua, 16 July 1958 (F. Mollinger); feeding on the stem near the growing point, August—Sept. 1938 (Sz. I.). *Sechium edule*, Fruit: Port Moresby—Boroko, C. Distr., Papua, 16 July 1958 (F. Mollinger).

#### Lygaeidae

*Astacops flavicollis* Walk. *Colocasia* sp.: Mamoo Plantation, N. Distr., Papua, 22 Mar. 1956 (Sz. I.); Tanbada Settlement, near Varaeposo village, Sepik Distr., NE NG, 12 Oct. 1957 (Sz. I.).

*Astacops villicus* (Stal.). *Colocasia* sp., very dense populations: Mamoo Plantation, N. Distr., Papua, 22 Mar. 1956 (Sz. I.).

*Orthaca cincticornis* Walk. *Zea mays* dense populations on leaves and flowers: Brown

River area (Native garden), 46 km north of Port Moresby, C. Distr., Papua, 5 Oct. 1958 (Sz. I.).

#### Pentatomidae

**Brachyplatys papuus** Guer. *Crotalaria anagyroides*: Mageri (Agr. Train. Centre), C. Distr., Papua, 2 Dec. 1957 (E. Kanjiri); Brown River (Agr. Exp. Block), C. Distr., Papua, 13 Oct. 1957 (R. S. Montgomery and Sz. I.). *Flemingia congesta* dense populations: Laloki, C. Distr., Papua, 2 July 1958 (Sz. I.). *Phaseolus vulgaris*, very dense populations: Mageri (Agr. Train. Centre), C. Distr., Papua, 14 May 1957 (G. L. Edwards). *Pipturus argenteus*: Beipa (Agr. Exp. Sta.), C. Distr., Papua, 14 May 1957 (A. W. Charles).

**Brachyplatys translineatus** Walk. *Passiflora foetida*: Bainyik (Agr. Station), Sepik Distr., NE NG, 14 Oct. 1957 (Sz. I.). *Theobroma cacao*, dense populations on pods: Lagakot Plantation, Lihir I., New Ireland Distr., July 1955 (Sz. I.).

**Coptosoma pygmaeum** Mont. *Cajanus cajan*: Bunahoj village, Sepik Distr., NE NG, 22 June 1959 (Sz. I.).

**Brystica exigua** Dist. *Manihot utilissima*: Keravat (Lowlands Agr. Exp. Sta.), New Britain Distr., Jan. 1959 (G. S. Dun).

#### Pyrrhocoridae

**Dysdercus sidae** Montr. *Alternanthera amoena*: low population densities on flowers: Port Moresby—Boroko, 3 Oct. 1959 (Sz. I.). *Alternanthera ficoides*: Tiaba Estate, C. Distr., Papua (A. Burrows and Sz. I.).

### HEMIPTERA—Homoptera

#### Aphididae

**Aphis craccivora** Koch. *Arachis hypogaea*: Keravat (Lowlands Agr. Exp. Sta.), New Britain, 28 Nov. 1958 (R. J. Van Velsen).

**Aphis gossypii** Glover. *Cucurbita moschata*: Keravat (Lowlands Agr. Exp. Sta.), New Britain Distr., 3 Oct. 1958 (R. J. Van Velsen).

**Brachycaudus helichrysi** (Kalt)? var *warei* Theob. *Crotalaria anagyroides*: Aiyura (Highlands Agr. Exp. Sta.), E. Hlds. Distr., NE NG (J. H. Barrett).

#### Coccidae

**Ceroplastodes chiton** Green. *Theobroma cacao*: Sangara Estate, N. Distr., Papua, 11 Aug. 1959 (F. J. Simmonds and Sz. I.).

**Ferrisiana virgata** (Ckll.). *Manihot utilissima*: Aroa Estate, C. Distr., Papua, 30 Sept. 1958 (Sz. I.). *Leucaena glauca*: Laloki, C. Distr., Papua (R. S. Montgomery and D. Shaw).

**Hemiberlesia cyanophylli**. *Coleus* sp.: Port Moresby—Boroko, C. Distr., Papua, 23 Oct. 1958 (J. Keogh).

**Ichnaspis longirostris** (Sign.) *Diospyros kaki*: Port Moresby—Konedobu (R. E. P. Dwyer and Sz. I.).

**Nipacoccus vastator** Mask. *Citrus limonia*, branches and fruit: Laloki, C. Distr., Papua, 17 Sept. 1958 (R. S. Montgomery and D. Shaw).

**Pinnaspis strachani** (Cooley). *Crotalaria usaramensis*: Laloki, C. Distr., Papua, 17 Sept. 1958 (R. S. Montgomery and D. Shaw). *Diospyros kaki*: Port Moresby—Konedobu, 19 Feb. 1959 (R. E. P. Dwyer and Sz. I.).

**Planococcus citri** (Risso) *Areca catechu*, flowers: Daradai Plantation, C. Distr., Papua, 30 July 1958 (E. Kanjiri). *Coleus* sp., dense populations: Port Moresby—Boroko, C. Distr., Papua, 24 Oct. 1958 (E. Gray).

**Saissetia coffeae** (Walk). *Coleus* sp., very dense populations on branches: Port Moresby—Boroko, C. Distr., Papua, 24 Oct. 1958 (E. Gray).

**Saissetia oleae** (Bern.). *Crotalaria usaramensis*: Laloki, C. Distr., Papua, 17 Sept. 1958 (R. S. Montgomery and D. Shaw.).

#### Ricaniidae

**Armacia basigera** Walk. *Theobroma cacao*, dense populations on seedlings: Bubia (Agr. Exp. Station), Morobe Distr., NE NG, 9 Sept. 1955 (Sz. I.).

### LEPIDOPTERA

#### Amathusiidae

**Taenaris butleri** Oberth. *Cycas cicatricalis*: Variarata, C. Distr., Papua, 18 Mar. 1956 (Sz. I.).

#### Arctiidae

**Utetheisa lotrix** Cram. *Crotalaria retusa*: Garaina (Tea Exper. Station), Morobe Distr., NE NG, 9 Oct. 1957 (Sz. I.).

#### Limacodidae

**Pinzulenza kukisch** Hering. *Theobroma cacao*, dense populations on foliage: Vaivari Plantation (at the Vailala River), Gulf Distr., Papua, 21 Mar. 1959 (J. Cox); Kul Kul Plantation, Karkar I., Madang Distr., NE NG, July and Sept. 1958, completely defoliating cacao trees (J. H. Ardley).

**Scopelodes nitens** B. Bak. *Anacardium occidentale*: Brown River (Agr. Exp. Block), C. Distr., Papua, 4 Mar. 1959 (A. Catley and Sz. I.).

#### Lycaenidae

**Polyommatus baeticus** (L). *Cajanus cajan*, larvae in pods: Kerema (Government Sta.), Gulf Distr., Papua, 6 May 1959 (C. D. Michener and Sz. I.).

## Noctuidae

**Pericyma cruegeri** Butl. *Poinciana regia*, Foliage: Hanuabada, Port Moresby, C. Distr., Papua, Apr.-May 1958 (Sz. I.). Remark: This species completely defoliated *Poinciana* trees in 1958 in the Port Moresby town area. To the best of my knowledge, it has never been collected or observed in the Territory of Papua before 1958. It is believed that *Pericyma cruegeri* was accidentally introduced to Papua from Northern Australia. Three parasites were bred from pupae of *P. cruegeri* in Port Moresby and Hanuabada, the chalcid *Brachymeria euploae* Wstw., the ichneumonid *Echthromorpha insidiator* Smith and a *Tachina* sp. The ant *Pheidole megacephala* F. was found preying on fully grown larvae in large numbers at Konedobu.

## COLEOPTERA

## Cerambycidae

**Dihammus strandiellus** Brng. *Theobroma cacao*: Keravat (Lowlands Agr. Exp. Sta.), New Britain, Jan. 1959 (G. S. Dun).

**Heteroclytomorpha punctata** Gah. *Theobroma cacao*: Arawa Plantation, Bougainville I., Sept. 1956 (F. R. McKillop).

**Oxymagis vitticollis** (Fairm.). *Theobroma cacao*: Arawa Plantation, Bougainville I., Sept. 1959 (F. R. McKillop).

**Tmesisternus yorkensis** Fairm. *Theobroma cacao*: Talasea, New Britain, Sept. 1958 (R. Marsland).

## Cetoniidae

**Ischiosopha ignipennis** Gestro var. *Cocos nucifera*, inflorescence: Kandrian, New Britain, Jan. 1959 (J. Allen).

## Coccinellidae

**Epilachna signatipennis** Boisd. *Ipomoea batatas*: Embi Plantation N. Distr., Papua, 24 Sept. 1957 (Sz. I.); Laloki, C. Distr., Papua, 24 Apr. 1958 (Sz. I.). *Phaseolus calcaratus*: Bainyik (Agr. Sta.), Sepik Distr., NE NG, Oct. 1957 (Sz. I.). *Phaseolus vulgaris*: Awala Plantation, N. Distr., Papua, 23 Sept. 1957 (Sz. I.). *Solanum mammosum*: Port Moresby, Boroko, C. Dist., Papua, 3 Oct. 1959 (Sz. I.). *Vigna sinensis*: Brown River (Agr. Exp. Block), C. Distr., Papua, 4 Mar. 1959 (Sz. I.).

## Curculionidae

**Apirocalus cornutus** Pasc. *Anacardium occidentale*: Brown River (Agr. Exp. Block), C. Distr., Papua, 4 Mar. 1959 (Sz. I.). *Arachis hypogaea*: Embi Plantation, N. Distr., Papua, 20 Sept. 1957 (Sz. I.). *Capsicum minimum*: Koitaki Estate, C. Distr., Papua, 28 Mar. 1956 (C. Sefton and Sz. I.). *Cassia allata*: Itikinumu Estate, C. Distr., Papua, May 1959 (Sz. I.). *Colocasia* sp.: Cupola Estate, Karaita village, both Gulf Distr., Papua, May 1959 (A. Catley and Sz. I.). *Crotalaria goreensis*: Madang (Agr. Station), Madang

Distr., NE NG, 29 June 1959, (Sz. I.). *Hibiscus cannabinus*: Eriama (Tiaba) Estate, C. Distr., Papua, 24 Mar. 1959 (Sz. I.). *Imperata cylindrica*: Daradai Plantation, C. Distr., Papua, 7 Sept. 1959 (Sz. I.). *Ipomoea batatas*: Yonki area, near Kainantu, E. Hlds. Distr., NE NG, 20 July 1959 (Sz. I.). *Manihot utilissima*: Bainyik (Agr. Station), Sepik Distr., NE NG, 25 Oct. 1957 (Sz. I.); Koitaki Estate, C. Distr., Papua, 26 Apr. 1959 (Sz. I.); Murua (Agr. Sta.), Gulf Distr., Papua, 6 May 1959 (Sz. I.). *Pipturus argenteus*: Beipa (Agr. Station), C. Distr., Papua, 14 May 1957 (A. W. Charles); Tamaui Plantation, Sepik Distr., NE NG, 14 Oct. 1957 (Sz. I.). *Psidium guajava*: Kerema (Government Station), Gulf Distr., Papua, 5 May 1959 (Sz. I.). *Pueraria phaseoloides*: Nagada Plantation, Madang Distr., NE NG, 28 Oct. 1958 (Sz. I.). *Stizolobium perringianum*: Aroa Estate, C. Distr., Papua, 13 May 1957 (Sz. I.).

*Elytrocheilus coeruleatus* Pasc. *Tephrosia candida* (Flowers): Azerita Plantation, N. Distr., Papua, 26 Sept. 1957 (Sz. I.). *Coffea robusta*: Igora Plantation, N. Distr., Papua, 25 Sept. 1957 (Sz. I.).

*Eupholus cinnamoneus* Pasc. *Anacardium occidentale*: Brown River (Agr. Exp. Block), C. Distr., Papua, 7 Oct. 1958 (R. S. Montgomery and Sz. I.). *Persea gratissima*: Javerere Plantation, C. Distr., Papua, 30 July 1958 (Sz. I.).

*Eupholus schonherri* Guer. var. *Pipturus argenteus*: Azerita Plantation, N. Distr., Papua, 26 Sept. 1957 (Sz. I.). *Hypotactus ruralis* Faust., *Manihot utilissima*: Methodist Mission Plantation, Ulu I. Duke of York Group, New Britain Distr., 30 Mar. 1959 (Sz. I.).

*Idiopsis grisea* Faust. *Acalypha* sp., *Hibiscus rosa-sinensis*, *Passiflora edulis*: Bisianumu (Rubber Exper. Sta.), C. Distr., Papua, 26 Apr. 1959 (Sz. I.). *Citrus* sp., dense populations: Illawara Estate, C. Distr., Papua, 24 Mar. 1956 (J. Williams). *Hibiscus cannabinus*, dense populations: Eriama (Tiaba) Estate, C. Distr., Papua, 24 Mar. 1956 (Sz. I.). *Ipomoea batatas*: Laloki, C. Distr., Papua, 24 Apr. 1959 (Sz. I.). *Persea gratissima*, dense populations: Koitaki Estate, C. Distr., Papua, Mar. 1956 (C. Sefton and Sz. I.).

*Meroleptus squalidus* Msl. *Theobroma cacao*: Dintatandi village, N. Distr., Papua, 9 Apr. 1956 (J. Healy).

*Oribius destructor* Msl. *Dahlia variabilis*, *Plumeria acutifolia*, *Salvia* sp.: Goroka (ornamental garden), E. Hlds. Distr., NE NG, 15 July 1959 (Sz. I.).

*Oribius cruciatus* Faust. *Anacardium occidentale*: Brown River (Agr. Exp. Block), C. Distr., Papua, 7 Oct. 1958 (R. S. Montgomery and Sz. I.). *Cassia allata*, foliage, flowers: Itikinumu Estate, C. Distr., Papua, 26 Apr. 1959 (Sz. I.). *Citrus* sp.: Brown River (Agr. Exp. Block), 4 Mar. 1959 (A. Catley and Sz. I.). *Cocos nucifera*: Brown River (Agr. Exp. Block), 7 Oct. 1958 (R. S. Montgomery and Sz. I.). *Coffea arabica*: Subitana Plantation, C. Distr., Papua, 5 June 1957 (J. H. Barrett). *Coffea robusta*: Brown River (Agr. Exp. Block), C. Distr., Papua, 4 March 1959 (Sz. I.). *Colocasia* sp.: Boraina near Epo, C. Distr., Papua, May 1957 (A. W. Charles and R. Curtis). *Hevea brasiliensis*, seedlings: Daradai Plantation, C. Distr., Papua, 30 July 1958 (W. E. Casey and Sz. I.). *Ipomoea batatas*: Laloki, C. Distr., Papua, 26 Apr. 1959 (Sz. I.). *Manihot utilissima*: Murua (Agr. Station), Gulf Distr., Papua, 5 May 1959 (Sz. I.). *Pueraria phaseoloides*: Brown River (Agr. Exp. Block), C. Distr., Papua, 7 Oct. 1958 (R. S. Montgomery and Sz. I.). *Theobroma cacao*, adults feeding on the bark of lateral branches and on the foliage of young trees: Vaiviri Plantation (at the Vaimari River), Gulf Distr., Papua, 21 March 1959 (J.

Cox). *Zea mays*: Boraina near Epo, C. Distr., Papua, May 1957 (A. W. Charles and R. Curtis).

*Pantorhytes szentivanyi* Msl. *Theobroma cacao*: Dintatandi village, N. Distr., Papua, 9 Apr. 1956 (J. Healy).

*Rhinoscapha consulta* Chevr. *Cassia fistula*, dense populations: Kila Kila, C. Distr., Papua, Jan. 1957 (J. Marley). *Lagerstroemia indica*: Port Moresby-Konedobu, 17 March 1958 (Sz. I.). *Quisqualis indica*: Port Moresby-Konedobu, 14 Jan. 1959 (A. Catley).

*Rhinoscapha schmeltzi* Fairm. *Cassia* sp.: Keravat, New Britain Distr., Jan. 1959 (G. S. Dun).

*Rhinoscapha thomsoni* Waterh. *Pipturus argenteus*, foliage, Sangara Estate area, secondary forest, 1 Aug. 1959 (Sz. I.).

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(Continued from page 412)

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