

PACIFIC INSECTS

Pacific Insects Vol. 20, no. 1: 1-4

30 January 1979

Organ of the program "Zoogeography and Evolution of Pacific Insects." Published by Entomology Department, Bishop Museum, Honolulu, Hawaii, U.S.A. Editorial committee: J.L. Gressitt, G.A. Samuelson and J.M. Tenorio, co-editors, S. Asahina, R.G. Fennah, R.A. Harrison, T.C. Maa, F.J. Radvosky, C.W. Sabrosky, J.J.H. Szent-Ivany, J. van der Vecht, K. Yasumatsu and E.C. Zimmerman. Devoted to studies of insects and other terrestrial arthropods from the Pacific area, including eastern Asia, Australia and Antarctica.

CATALOG OF ENTOMOLOGICAL TYPES IN THE BISHOP MUSEUM Blattaria and Mantodea¹

By Gordon M. Nishida²

Abstract: This catalog alphabetically lists primary types and allotypes of Blattaria and Mantodea deposited in the Bishop Museum. Blattaria is represented by 7 holotypes and 4 allotypes, Mantodea by 12 holotypes and 3 allotypes.

The Bishop Museum holdings of Blattaria and Mantodea types are few in number but particular regions are well represented. Both orders are poorly studied in the general collections.

M. Hebard described 6 of the 7 blattid primary types in conjunction with the Pacific Entomological Survey, 1927 to 1933 (Hebard 1935). All 7 blattid holotypes are central Pacific, predominantly Polynesian in origin, with 5 from the Marquesas Islands, 1 from the Society Islands, and 1 from the Caroline Islands. All 4 blattid allotypes in the collection are Polynesian.

The mantid type holdings reflect the extensive collecting by Bishop Museum personnel in New Guinea, with 10 of the 12 primary types from that area. The remaining 2 holotypes are from the Cape York Islands. Three allotypes are deposited in the mantid type collection. All 15 mantid types were described by M. Beier (1965).

The format used in this catalog follows Radvosky et al. (1976).

SPECIES-GROUP ENTRIES

Order BLATTARIA

- | | | |
|------------------------------------------------------------------------------------|------------|------|
| atropunctata C. Willemse, Homalopteryx pelewensis | HOLOTYPE ♀ | 1758 |
| 1950 <i>Eos, Rev. Esp. Entomol., Tomo Extraord.</i> : 325 Pl. 9, Fig. 1 | | pin |
| MICRONESIA: Caroline Is: Palau Is: Angaur I 15.IV.1936 Y. Kondo | | |
| Head, thorax, right foreleg, right midleg and left foreleg missing. | | |
| hivaoa Hebard, Aneurina | HOLOTYPE ♂ | 660 |
| 1935 <i>Bull. B.P. Bishop Mus.</i> 114: 116 | | pin |
| MARQUESAS IS: Hivaoa I: Mt Temetiu: Slope N of summit 1177 m 27.XII.1930 H. Tauraa | | |

1. This work was supported by grant #BMS 75015971 from the U. S. National Science Foundation to Bishop Museum.
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ALLOTYPE, 660a, pin. Data on allotype was published as 1166 m, 27.V.1929, in fern petiole, E. P. Mumford & A. M. Adamson. In the original publication, Hebard did not clearly indicate the numbers of specimens from their respective localities, making it difficult to conclusively determine status. Specimen 660a in Bishop has an allotype label, colored red, in Hebard's handwriting. Also, 8 of the 15 specimens that Hebard examined are in the museum collection, 4 adults (holotype, allotype, 2 paratypes) and 4 juveniles. All of these specimens were collected on the same date, in the same locality as the holotype. Though it is not known where the remaining paratypes and voucher specimens are deposited, I would tentatively conclude that this specimen is the allotype and that the published data were in error.

- hivaoa** Hebard, **Maretina** HOLOTYPE ♂ 657
 1935 *Bull. B. P. Bishop Mus.* 114: 110 Fig. 1b
 pin
 MARQUESAS IS: Hivaoa I: Mt Temetiu: N Crest 1104 m 24.VII.1929 E. P. Mumford & A. M. Adamson
- remota** Hebard, **Kuchinga** HOLOTYPE ♂ 662
 1935 *Bull. B. P. Bishop Mus.* 114: 119 Fig. 1f, 1g
 pin
 SOCIETY IS: Tahiti I: Hitiaa: 4.83 km from sea 457 m 20.XII.1928 E. P. Mumford & A. M. Adamson
 ALLOTYPE, 662a, pin, SOCIETY IS: Moorea I: Faaroa Val.: 4.83 km from sea, 305 m, 4.XII.1928, dead leaves of banana, A. M. Adamson.
- tahuata** Hebard, **Aneurina** HOLOTYPE ♂ 661
 1935 *Bull. B. P. Bishop Mus.* 114: 116 Fig. 1e
 pin
 MARQUESAS IS: Tahuata I: Amatea 823 m 7.VII.1930 G. Le Bronnec & H. Tauraa
 Beating on *Metrosideros collina*
 ALLOTYPE, 661a, pin, same data as holotype except: beating on *Weinmannia parviflora*.
- uahuka** Hebard, **Maretina** HOLOTYPE ♂ 658
 1935 *Bull. B. P. Bishop Mus.* 114: 111 Fig. 1c
 pin
 MARQUESAS IS: Uahuka I: Hitikau ridge 884 m 4.III.1931 G. Le Bronnec & H. Tauraa
 On *Cyperus* sp.
- viridis** Hebard, **Aneurina** HOLOTYPE ♂ 659
 1935 *Bull. B. P. Bishop Mus.* 114: 114 Fig. 1d
 pin
 MARQUESAS IS: Nukuhiva I: Ooumu 915 m 27.V.1931 G. Le Bronnec & H. Tauraa
 On *Weinmannia parviflora*
 ALLOTYPE, 659a, pin, same data as holotype except: 976 m, 28.V.1931.

Order MANTODEA

- alatus** Beier, **Papugalepsus** HOLOTYPE ♂ 3835
 1965 *Pac. Insects* 7(3): 482 Fig. 1f
 pin
 NEW GUINEA (NE): Wum: Upper Jimmi Val. 840 m 16.VII.1955 J. L. Gressitt
- antennatus** Beier, **Nesoxypilus** HOLOTYPE ♂ 3840
 1965 *Pac. Insects* 7(3): 450 Fig. 1a, 1b
 pin
 CAPE YORK IS: Prince of Wales I 3.VIII.1920 J. A. Kusche
 Holotype with right midleg, right hindleg, left midleg, left hindleg missing. ALLOTYPE, 3840a,
 pin, same data as holotype except: 25.VII.1920. Thorax and head separated from abdomen, both
 sections glued to card.

curvidens Beier, Papubolbe	HOLOTYPE ♂	3833
1965 <i>Pac. Insects</i> 7(3): 480 Fig. 1d		pin
NEW GUINEA (NE): Mt Otto 2500 m 21.VI.1955 [J. L. Gressitt]		
eximia Beier, Papubolbe	HOLOTYPE ♂	3832
1965 <i>Pac. Insects</i> 7(3): 479 Fig. 1c		pin
NEW GUINEA (NE): Upper Chimbu Val.: Numbu 2400 m 5.VII.1955 J. L. Gressitt		
gressitti Beier, Papubolbe	HOLOTYPE ♂	3831
1965 <i>Pac. Insects</i> 7(3): 477 Fig. 1b		pin
NEW GUINEA (NE): Mt Otto 2200 m 24.VI.1955 J. L. Gressitt		
Right hindleg missing distad of coxa, right midleg missing distad of femur.		
insularis Beier, Phthersigena	HOLOTYPE ♂	3841
1965 <i>Pac. Insects</i> 7(3): 450 Fig. 1c, 1d		pin
CAPE YORK IS: Prince of Wales I 22.VIII.1920 J. A. Kusche		
ALLOTYPE, 3841a, pin, same data as holotype except: 25.VII.1920.		
papua Beier, Kongobatha	HOLOTYPE ♀	3838
1965 <i>Pac. Insects</i> 7(3): 487 Fig. 2c		pin
NEW GUINEA (SE): Kiunga: Fly River 15-21.VII.1957 W. W. Brandt		
Holotype with left foreleg, left midleg, right midleg and right hindleg missing. ALLOTYPE, 3838a, pin, NEW GUINEA (SE): Normanby I: Wakiauna: Sewa Bay, 11-20.XII.1956, W. W. Brandt.		
papua Beier, Machairima	HOLOTYPE ♂	3837
1965 <i>Pac. Insects</i> 7(3): 487 Fig. 2b		pin
NEW GUINEA (SE): Kiunga: Fly River 28-31.VIII.1957 W. W. Brandt		
Right hindtarsus missing.		
picea Beier, Papubolbe	HOLOTYPE ♂	3834
1965 <i>Pac. Insects</i> 7(3): 480 Fig. 1e		pin
NEW GUINEA (NE): Tuwep: Salawaket Range 1350 m 9.IX.1958 E. J. Ford, Jr.		
Both hindlegs missing distad of coxae. "Tuwep" misspelled as "Tuwop" in original publication.		
pulchra Beier, Nannofulcinia	HOLOTYPE ♂	3830
1965 <i>Pac. Insects</i> 7(3): 476 Fig. 1a		pin
NEW GUINEA (NE): Torricelli Mts: Wantipi Vill. 30.XI-8.XII.1958 W. W. Brandt		
squalida Beier, Hierodula sorongana	HOLOTYPE ♂	3839
1965 <i>Pac. Insects</i> 7(3): 492		pin
NEW GUINEA (NE): Bulolo 1020 m 21.VIII.1956 E. J. Ford, Jr.		
Left hindleg missing.		
verticalis Beier, Fulciniella	HOLOTYPE ♂	3836
1965 <i>Pac. Insects</i> 7(3): 483 Fig. 2a		pin
NEW GUINEA (SE): Owen Stanley Range: Goilala: Tapini 975 m 16-25.XI.1957 W. W. Brandt.		

GENUS-GROUP INVENTORY

ORDER BLATTARIA

Aneurina: hivaoa 1; tahuata 2; viridis 2
 Homalopteryx: pelewensis atropunctata 1

Kuchinga: remota 2
Maretina: hivaaoa 2; uahuka 2

ORDER MANTODEA

Fulciniella: verticalis 3
Hierodula: sorongana squalida 3
Kongobatha: papua 3
Machairima: papua 3
Nannofulcinia: pulchra 3
Nesoxyphilus: antennatus 2
Papubolbe: curvidens 3; eximia 3; gressitti 3; picea 3
Papugalepsus: alatus 2
Phthersigena: insularis 3

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