

CATALOG OF ENTOMOLOGICAL TYPES IN THE BISHOP MUSEUM

Anoplura and Siphonaptera

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This catalog of Anoplura and Siphonaptera primary types completes the catalogs of the major ectoparasitic groups housed in the Arachnology and Ectoparasitology Section of the Bishop Museum Entomology Department [see Tenorio 1976 (Acari) and Tenorio 1979 (Mallophaga)]. Supplemental catalogs will be issued periodically.

The Anoplura and Siphonaptera type holdings are relatively small and are, therefore, published together. Only holotypes, allotypes, and lectotypes are listed; paratypes are excluded. The format follows Radovsky et al. (1976). Names are listed as originally published and entered alphabetically under families, also arranged in alphabetical order. Locality information published in the original description has been supplemented where additional information was available to me; data not given in the original description appear in brackets [] in the listings.

The Anoplura collection contains about 60 named species on some 3000 slides and in alcohol, with a few paratypes represented. The bulk of the identified collection represents Oriental elements, but North America and the Pacific are also well represented. A large amount of material from many areas comprising some 2000 vials is unstudied; ca. 600 of these contain Philippine lice. In addition, a large collection of 2700 vials and slides from New Guinea and the Solomons is currently under study.

The Siphonaptera holdings of named species are worldwide, with strong New Guinea representation; 275 species are identified on 2300 slides and 600 vials, with 26 species represented by paratypes. Most of the unworked flea material of some 7500 slides and vials is presently under study.

Order ANOPLURA

Family HAEMATOPINIDAE

apressus Johnson, <i>Neohaematopinus</i>	HOLOTYPE ♀	9622
1972 <i>Pac. Insects</i> 14(2): 389-92 Fig. 1-7		slide
LAOS: [Xieng Khouang Prov]: 18 km NW [of] Xieng Khouang	1045 m VIII.1960 R.	
Leech		
Ex <i>Tamiops rodolphei rodolphei</i> , no. 248		
ALLOTYPE ♂, same data.		

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Family HOPLOPLEURIDAE

- pacifica** Ewing, **Hoplopleura** LECTOTYPE ♀ 1360
 1924 *B.P. Bishop Mus. Bull.* **14**: 9-11 Fig. 1b, c
 HAWAIIAN IS: [presumably Popoia Islet, Oahu I]
 Ex *Rattus hawaiiensis*
 Lectotype designated by Voss (1966). One specimen circled in red on coverslip is apparently the lectotype and is accompanied by 6 ♀ and 5 ♂ paralectotypes.
- pahari** Johnson, **Hoplopleura** HOLOTYPE ♂ 9728
 1972 *Pac. Insects* **14**(3): 607-09 Fig. 1, 3, 4, 11, 14
 LAOS: [Xieng Khouang Prov]: Ban Theuong: 18 km NW [of] Xieng Khouang: Stop 42 1045 m VIII.1960
 Ex *Mus pahari* ♂, R70394
- rajah** Johnson, **Hoplopleura** HOLOTYPE ♂ 9620
 1972 *J. Med. Entomol.* **9**(3): 221-26 Fig. 1, 2, 4, 6, 7, 9, 23
 LAOS: [Sedone Prov]: Pakse: 15 km on Pak Song Rd [ca. 300 m] VII.1960
 Ex *Rattus surifer*, R70103
- rhizomydis** Johnson, **Polyplax** HOLOTYPE ♀ 9621
 1972 *Pac. Insects* **14**(2): 393-97 Fig. 1-3, 5, 8-9
 LAOS: [Xieng Khouang Prov]: 18 km NW [of] Xieng Khouang 1045 m VIII.1960 R.
 Leech & M. Nadchatram
 Ex *Rhizomys sumatrensis*, R70307
- silvula** Johnson, **Hoplopleura** HOLOTYPE ♀ 9729
 1972 *Pac. Insects* **14**(3): 609-10 Fig. 2, 5, 8-10, 12
 LAOS: [Xieng Khouang Prov]: 18 km NW [of] Xieng Khouang 1045 m VIII.1960 R.
 Leech
 Ex *Vandeleuria oleracea*, R70368
 ALLOTYPE ♂, same data.

Order SIPHONAPTERA

Family HYSTRICHOPSYLLIDAE

- constricta** Jameson & Hsieh, **Neopsylla** HOLOTYPE ♂ 9460
 1971 *J. Med. Entomol.* **8**(4): 383 Fig. 1G, H; 2D, G; 3F, H
 TAIWAN: Hua-lien Hsien: Fen-lin: Lin-t'ien Shan 2680 m III.1965 P.Y. Hsieh
 Ex *Microtus kikuchii*
- kappa** Jameson & Hsieh, **Palaeopsylla** HOLOTYPE ♂ 8023
 1969 *J. Med. Entomol.* **6**(2): 182 Fig. 1F, 2C, D, F
 TAIWAN: Hua-lien Hsien: Ho-huan Pass 2500 m I.VII.1966 E.W. Jameson
 Ex *Mogera insularis*
 ALLOTYPE ♀, same data.
- lui** Hsieh & Jameson, **Ctenophthalmus (Sinoctenophthalmus)** HOLOTYPE ♂ 9459
 1971 *J. Med. Entomol.* **8**(4): 399-400 Fig. 1
 TAIWAN: Kao-hsiung Hsien: Tao-yüan; Shih-shan 2213 m X.1967 P.Y. Hsieh, L.R.
 Lan & L.C. Lu
 Ex *Microtus kikuchii*
- mustelae** Jameson & Hsieh, **Neopsylla** HOLOTYPE ♂ 9461
 1971 *J. Med. Entomol.* **8**(4): 283-84 Fig. 1I, J, K; 2A, H; 3C, D
 TAIWAN: Hua-lien Hsien: Ta-yü-ling; Ho-huan Pass 2500 m XI.1969 H.M. Liu & M.L. Liu
 Ex *Mustela sibirica davidiana*
 ALLOTYPE ♀, same data.

1982	Tenorio: Bishop Museum type catalog, Anoplura and Siphonaptera		375
nebula	Jameson & Hsieh, Neopsylla	HOLOTYPE ♂	9462
	1971 <i>J. Med. Entomol.</i> 8 (4): 384–86 Fig. 1D, F; 2B, F		slide
	TAIWAN: Nan-t'ou Hsien: Jen-ai: Ts'ui'feng 2700 m		
	Ex <i>Microtus kikuchii</i>		
reductus	Jameson & Hsieh, Ctenophthalmus (Euctenophthalmus)	HOLOTYPE ♂	8024
	1969 <i>J. Med. Entomol.</i> 6 (2): 185 Fig. 3A, B; 4A, D		slide
	TAIWAN: Nan-t'ou Hsien: Mei-feng 8.VIII.1963 E.W. Jameson, Jr		
	Ex <i>Microtus kikuchii</i>		
	Locality above is as given in original description. Holotype and allotype ♀ labels read "Nan-t'ou Pref, 20 mi. NE Qu-She, 7500', 8 Aug. 1963."		
weida	Jameson & Hsieh, Hystrichopsylla	HOLOTYPE ♂	7066
	1967 <i>J. Med. Entomol.</i> 4 (2): 81–82 Fig. 1E–I		slide
	TAIWAN: Chia-i Hsien: Ali-schan 2400 m II.1965 E.W. Jameson, Jr		
	Ex <i>Anourosorex squamipes yamashinai</i>		
	ALLOTYPE ♀, same data.		

Family LEPTOPSYLLIDAE

taiwanensis	Jameson & Hsieh, Frontopsylla nakagawai	HOLOTYPE ♂	6811
	1966 <i>J. Med. Entomol.</i> 3 (3–4): 299–300 Fig. 1		slide
	TAIWAN: T'ai-chung Hsien: 32 km E of Li-shan 2260 m XI.1963. E.W. Jameson, Jr		
	Ex <i>Apodemus semotus</i>		
	ALLOTYPE ♀, same data		

Family RHOPALOPSYLLIDAE

laysanensis	Wilson, Parapsyllus	HOLOTYPE ♂	8818
	1972 <i>Contrib. Am. Entomol. Inst.</i> 8 (5): 31–33 Fig. 28–31, 33		slide
	HAWAIIAN IS: Laysan I XII.1963 N. Wilson		
	Ex <i>Diomedea immutabilis</i> nest		
	ALLOTYPE ♀, same data.		

GENUS-GROUP INVENTORY

Ctenophthalmus (Euctenophthalmus): reductus
 Ctenophthalmus (Sinoctenophthalmus): lui
 Euctenophthalmus: subg., see Ctenophthalmus
 Frontopsylla: nakagawai taiwanensis
 Haematopinidae
 Neohaematopinus: appressus
 Hoplopleuridae
 Hoplopleura: pacifica; pahari; rajah; silvula
 Hystrichopsyllidae
 Hystrichopsylla: weida
 Leptopsyllidae
 Neopsylla: constricta; mustelae; nebula
 Palaeopsylla: kappa
 Parapsyllus: laysanensis
 Polyplax: rhizomydis
 Rhopalopsyllidae
 Sinoctenophthalmus: subg., see Ctenophthalmus

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