

CATALOG OF ENTOMOLOGICAL TYPES IN THE BERNICE**P. BISHOP MUSEUM****Diptera: Sciaridae¹****By Wallace A. Steffan²**

Abstract: The 20 holotypes of Sciaridae in the Bernice P. Bishop Museum collection are listed with associated collection data. A summary is also provided of the number and geographical distribution of the Sciaridae in the general collection.

Most holotypes of Sciaridae of the Pacific Basin are deposited in the British Museum (Natural History) and are the result of F. W. Edwards' extensive works on this family. Recent studies by Hardy (1956, 1960) on Hawaiian Sciaridae and Steffan (1969, 1973) on Micronesian and Hawaiian Sciaridae have formed the nucleus of the primary types of Sciaridae in the Bishop Museum. There are 20 holotypes of Sciaridae from Micronesia and the Hawaiian Islands in the Bishop Museum collection. All holotypes are slide mounted. The format used in listing the data for each type is explained in Radovsky et al. (1976).

The Sciaridae collection in the Bishop Museum contains approximately 122,000 specimens; 61,000 of these are pinned and labelled, 11,000 slide mounted and 50,000 in alcohol. The pinned specimens are all adults which were collected either in Malaise traps or in general collections by Museum staff or collaborators. The majority of the 61,000 pinned specimens are unidentified and are from the following areas: Alaska (1000), Australia (2000), Borneo (5000), Fiji (600), Hong Kong and South China (5000), India (19), Java and Malaysia (1000), Kermadec Is (600), Laos (200), Nepal (4500), New Caledonia (1200), New Guinea (24,000), New Hebrides (125), Philippines (8000), Ryukyu Is (35), Samoa (570), Solomon Is (2800), Tahiti (90), Taiwan (1600), Thailand (280), Tokelau Is (33) and Vietnam (2000).

The slide collection includes 1800 identified adults from Micronesia, about 7900 adults (5000 identified) from the Hawaiian Islands, and about 1300 adults (300 identified) from Australia, Borneo, Kermadec Is, Malaya, New Guinea, Philippines, Ryukyu Is, South Georgia I and Thailand. There are also approximately 8000 slides in my collection which includes a large collection from California and numerous specimens on loan from several sources.

The alcohol collection includes 1500 identified adults from Micronesia and about 48,500 adults (30,000 identified) from the Hawaiian Islands. The Hawaiian collection is largely the result of my recent and continuing studies and includes associated ecological and biological data.

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SPECIES-GROUP ENTRIES

adrostylata Hardy, Plastosciara (Cosmosciara)	HOLOTYPE ♂	2483
1956 <i>Proc. Hawaii. Ent. Soc.</i> 16(1): 72-73 Fig. 1a-c		Slide
HAWAIIAN IS: Oahu I: Waikane 670 m IX.1972 E. H. Bryan		
Ex dead <i>Xanthoxylum</i>		
bishopi Steffan, Bradysia	HOLOTYPE ♂	9942
1973 <i>Pacif. Ins.</i> 15(3-4): 353-56 Fig. 1a-f		Slide
HAWAIIAN IS: Oahu I: Kailua [10 m] XI.1968 W. A. Steffan		
Black light		
ALLOTYPE ♀ slide mounted.		
brevicalcarata Hardy, Plastosciara (Cosmosciara)	HOLOTYPE ♂	2481
1956 <i>Proc. Hawaii. Ent. Soc.</i> 16(1): 73, 75 Fig. 2a-c		Slide
HAWAIIAN IS: Oahu I: [Honolulu] Bishop Museum XII.1952 C. Hoyt		
On window		
ALLOTYPE ♀ 2481A slide mounted.		
gressitti Steffan, Scythropochroa	HOLOTYPE ♀	8221
1969 <i>Ins. Micronesia</i> 12(7): 680-82 Fig. 4a-f		Slide
MICRONESIA: Caroline Is: Truk Is: Tol I: Mt Unibot 390 m I.1953 J. L. Gressitt		
hawaiiensis Hardy, Sciara (Leptosciara)	HOLOTYPE ♂	2491
1959 <i>Proc. Hawaii. Ent. Soc.</i> 16(1): 78-80 Fig. 5a-c		Slide
HAWAIIAN IS: Oahu I: Mt Tantalus XI.1953 D. E. Hardy		
Ex rotten wood		
ALLOTYPE ♀ 2491A slide mounted.		
heterochela Steffan, Corynoptera	HOLOTYPE ♂	8224
1969 <i>Ins. Micronesia</i> 12(7): 698-99 Fig. 11a-j		Slide
MICRONESIA: Caroline Is: Ponape I: Mt Temwetemwensekir 180 m I.1953		
J. L. Gressitt		
Light trap		
ALLOTYPE ♀ slide mounted.		
hoyti Hardy, Sciara (Lycroiella)	HOLOTYPE ♂	2493
1956 <i>Proc. Hawaii. Ent. Soc.</i> 16(1): 80, 82 Fig. 6a-c		Slide
HAWAIIAN IS: Hawaii I: Keanakolu 1585 m X.1952 C. Hoyt		
jaluitensis Steffan, Plastosciara	HOLOTYPE ♂	8223
1969 <i>Ins. Micronesia</i> 12(7): 688 Fig. 7a-f		Slide
MICRONESIA: Marshall Is: Jaluit Atoll: Enybor I XI.1964 B. D. Perkins		
Malaise trap		
latipons Hardy, Plastosciara (Plastosciara)	HOLOTYPE ♂	2484
1956 <i>Proc. Hawaii. Ent. Soc.</i> 16(1): 77 Fig. 4a-d		Slide
HAWAIIAN IS: Oahu I: Ewa IV.1955		
Light trap		
latistylata Hardy, Sciara (Lycoriella)	HOLOTYPE ♂	2490
1956 <i>Proc. Hawaii. Ent. Soc.</i> 16(1): 82-83 Fig. 7a-d		Slide
HAWAIIAN IS: Oahu I: Kuliouou Valley 457 m II.1953 C. P. Hoyt		
longicosta Hardy, Plastosciara (Cosmosciara)	HOLOTYPE ♂	2482
1956 <i>Proc. Hawaii. Ent. Soc.</i> 16(1): 75-77 Fig. 3a-d		Slide
HAWAIIAN IS: Oahu I: Halawa Ridge XI.1952 C. P. Hoyt		
Ex moss		
ALLOTYPE ♀ 2482A slide mounted.		
magnisensoria Hardy, Scythropochroa	HOLOTYPE ♂	2485
1956 <i>Proc. Hawaii. Ent. Soc.</i> 16(1): 89-90 Fig. 12a-d		Slide
HAWAIIAN IS: Oahu I: Kuliouou Valley 457 m II.1953 C. P. Hoyt		
ALLOTYPE ♀ 2485A slide mounted.		

multispinosa Steffan, Ctenosciara	HOLOTYPE ♂	8225
1969 <i>Ins. Micronesia</i> 12(7): 712-14 Fig. 17a-j		
MICRONESIA: Caroline Is: Ponape I: Mt Temwetemwensekir 180 m I.1953 J. L. Gressitt		
ALLOTYPE ♀ slide mounted.		
nigrita Hardy, Scatopsciara (Uddmaniella)	HOLOTYPE ♂	2488
1956 <i>Proc. Hawaii, Ent. Soc.</i> 16(1): 86, 88-89 Fig. 11a-d		
HAWAIIAN IS: Oahu I: Palolo Valley III.1953 C. P. Hoyt		
Reared from rotting plumeria		
ALLOTYPE ♀ slide mounted		
prominens Hardy, Sciara (Lycoriella)	HOLOTYPE ♂	2492
1956 <i>Proc. Hawaii, Ent. Soc.</i> 16(1): 83-84 Fig. 8a-b		
HAWAIIAN IS: Oahu I: Pupukea X.1952 C. P. Hoyt		
ALLOTYPE ♀ slide mounted.		
setigera Hardy, Spathobdella	HOLOTYPE ♂	2487
1960 <i>Ins. of Hawaii, Diptera: Nematocera-Brachycera</i> 10: 234-35 Fig. 80a-c		
HAWAIIAN IS: Hawaii I: Keanakolu 1585 m X.1952 C. P. Hoyt		
snyderi Steffan, Bradysia	HOLOTYPE ♂	8226
1969 <i>Ins. Micronesia</i> 12(7): 723 Fig. 21a-g		
MICRONESIA: Bonin Is: Haha Jima: Okimura IV-VI.1958 F. M. Snyder		
ALLOTYPE ♀ slide mounted.		
solispina Hardy, Sciara (Lycoriella)	HOLOTYPE ♂	2489
1956 <i>Proc. Hawaii, Ent. Soc.</i> 16(1): 84-85 Fig. 9a-c		
HAWAIIAN IS: Hawaii I: Kaula Gulch, N slope Mauna Kea 213 m X.1952 D. E. Hardy		
ALLOTYPE ♀ 2489A slide mounted.		
spatitergum Hardy, Sciara (Lycoriella)	HOLOTYPE ♂	2486
1956 <i>Proc. Hawaii, Ent. Soc.</i> 16(1): 85-86 Fig. 10a-c		
HAWAIIAN IS: Oahu I: Honolulu X.1952 C. P. Hoyt		
At light		
ALLOTYPE ♀ 2486A slide mounted.		
trispinosa Steffan, Scythropochroa	HOLOTYPE ♂	8222
1969 <i>Ins. Micronesia</i> 12(7): 682-85 Fig. 6a-f		
MICRONESIA: Marshall Is: Kwajalein Atoll: Carlson I X-XI.1964 B. D. Perkins		
Malaise trap		
vulcanata Steffan, Phytosciara (Prosciara)	HOLOTYPE ♂	9943
1973 <i>Pacif. Ins.</i> 15(3-4): 358 Fig. 2a-h		
HAWAIIAN IS: Hawaii I: E slope Mauna Loa 2134 m VII.1972 J. Jacobi		
Ex pitfall trap #P. 0280		
ALLOTYPE ♀ slide mounted.		

GENUS-GROUP INVENTORY

Bradysia: bishopi, snyderi
 Cosmosciara: subg., see Plastosciara (Cosmosciara)
 Corynoptera: heterochela
 Ctenosciara: multispinosa
 Leptosciara: subg., see Sciara (Leptosciara)
 Lycoriella: subg., see Sciara (Lycoriella)
 Phytosciara (Prosciara): vulcanata
 Plastosciara: jaluitensis
 Plastosciara (Cosmosciara): adrostylata, brevicarata, longicosta
 Plastosciara (Plastosciara): latipons
 Prosciara: subg., see Phytosciara (Prosciara)
 Scatopsciara (Uddmaniella): nigrita

Sciara (Leptosciara): hawaiiensis

Sciara (Lycoriella): hoyti, latistylata, prominens, solispina, spatitergum

Scythropochroa: gressitti, magnisensoria, trispinosa

Spathobdella: setigera

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