

PAUL HENRI ARNAUD, JR.

Personal data: Born in San Francisco, California, September 15, 1924, Married to Madeline L. C. Milliet (1970), two children - Paul-Henri F. Arnaud and Sandrine M. C. Arnaud. Have both USA and Swiss citizenship.

Military service: Staff Sergeant with Corps of Engineers, AUS, 1944-46

EDUCATION

San Jose State University, San Jose, California, A.B., 1949 (Biological Sciences)

Stanford University, California, M.A., 1950 (Biological Sciences)

Stanford University, California, Ph.D., 1961 (Biological Sciences)

LINGUISTIC EXPERIENCE

Reading and speaking knowledge of French

EMPLOYMENT HISTORY

Systematic Entomologist, Bureau of Entomology, California Department of Agriculture, summers 1950-52, 1955; 1957-59

Principal Investigator, contract Stanford University and Office of the Surgeon General, U.S. Army, Japan, 1954-55

Entomologist, U.S. Department of Agriculture, c/o U.S. National Museum, Washington, D.C., 1956-57

Research Entomologist, California Academy of Sciences, 1959-61, 1963

Research Fellow, Department of Entomology, American Museum of Natural History, New York City, 1961-62

Assistant Curator, Department of Entomology, California Academy of Sciences, 1964-65

Associate Curator, Department of Entomology, California Academy of Sciences, 1965-71

Associate in the Experimental Station University of California, Division of Biological Control, Albany, 1966-2000.

Chairman, Department of Entomology, California Academy of Sciences, 1968-78, 1988-90(June), 1994(Jan.-June 30). Acting Chairman, Apr. 1998.

Curator, Department of Entomology, California Academy of Sciences, 1972-31-X-1995

Curator Emeritus, Department of Entomology, California Academy of Sciences, Nov. 1, 1995-present.

Research Associate, Department of Entomology, National Museum of Natural History, Smithsonian Institution, Washington, DC 20013, 3 year appointment starting 31 Aug. 2007.

CURATORIAL EXPERIENCE

Started a personal collection while in High School in 1940 (and which was added to each year), primarily donated to the California Academy of Sciences. Of accessions made between 1948 and 1989, about 450,000 processed specimens and over 1,350,000 unprocessed specimens have been donated to or collected for CAS. Over 8,000 Culicoides specimens and types collected in Japan in 1954-55 and additional Diptera deposited in the USNMNH in 1956 and 2000, and subsequently. Diptera material and types donated to the AMNH in 1962.

San Jose State University, 1942, 1946-48. Curatorial Assistant, Entomological Collection on an hourly basis. Preparation of specimens for collection and collection organization.

U.S. National Museum, Natural History, one year, 1954-55. Curated portions of the Diptera collection on a one year temporary assignment with USDA.

California Department of Food and Agriculture, Entomology Collection, 1957-59. Systematic Entomologist, curated Diptera and other collections under assignment.

American Museum of Natural History, one year, 1961-62. In charge of Diptera collection during assignment as Research Fellow.

California Academy of Sciences, 1959-61, 62-95, in charge of Diptera and other portions of Collections (at this time Orthoptera, Hemiptera-Homoptera, Lepidoptera, Odonata and Neuroptera).

PROFESSIONAL EXPERIENCE IN FOREIGN COUNTRIES

AUSTRIA: Research at Naturhistorisches Museum Wien, one week (1972).

BELGIUM: Research at l'Institut Royal de Science Naturelles, Bruxelles, oneweek (1976); Musee Royal de l'Afrique Centrale, Tervuren, one day (1976)

CANADA: Research at Canadian National Collection of Insects, Ottawa, threedays (1964), five days (1982)

FRANCE: Research at Museum National d'Histoire Naturelle, Paris, five weeks (1972), one week each (1976, 1984); Musee d'Histoire Naturelle, Lille, three days (1976)

GERMANY: Research at Natur-Museum und Forschungsinstitut Senckenberg, Frankfurt, three days (1976); Staatliches Museum fur Naturkunde in Stuttgart, Ludwigsburg, two days (1976)

GREAT BRITAIN: Research at British Museum (Natural History), London, three weeks (1976), ten days (1979); Hope Entomological Collections, Oxford University, one day (1979)

ITALY: Research at Museo Ed Instituto di Zoologia Sistemica della Universita di Torino, Torino, eight days (1972); Museo Civico de Storia Naturale, Milano, one week (1979)

JAPAN: Residence, field work, and research, associated with 406th Medical General Laboratory, Tokyo and Kyoto, one year (1954-55)

NETHERLANDS: Research at Instituut voor Taxonomische Zoologie (Zoologisch Museum), Universiteit van Amsterdam, four days (1976); Rijksmuseum van Natuurlijke Historie, Leiden, one day (1976)

SWITZERLAND: Naturhistorisches Museum Basel, two days (1972), two days (1976), one day (1979); Eidgenossische Technische Hochschule, Entomologisches Institut, Zurich, 1 day (1972); Museum d'Histoire Naturelle, Geneva, one day each (1972, 1979)

FIELD EXPERIENCE

UNITED STATES: Extensive fieldwork and collecting in California. Collected throughout the western United States, including Alaska; in the eastern United States in the vicinity of New York City and Washington, D. C.; and in Florida.

JAPAN: Field work on islands of Hokkaido, Honshu, and Kyushu (1954-1955)

CANADA: British Columbia and Yukon Territory (1974, 1978, 1985, 1987, 1989, 1996); Hudson Bay (1993).

MEXICO: Gulf of California Islands, four weeks (1953), Entomologist, Sefton Foundation "Orca" Expedition.

Sierra San Pedro Martir, Baja California Norte, two weeks (1953)

San Quintin Bay, Baja California Norte, three days (1957)

Ensenada, Baja California Norte, one day, with F. X. Williams (1958)

West Coast Mexico to Guadalajara and return by Durango and Chihuahua, three weeks, with E. S. Ross and D. C. Rentz (1960)

Alamos and San Carlos Bay, in Sonora, and San Felipe, Baja California Norte, three weeks (1963), and Alamos (1970).

Baja California Norte to El Rosario, nine days, with H. B. Leech (1963)

Monterey to Mexico City, to Puerto Vallarta and Alamos, three weeks (1970-71)

Ensenada and Agua Caliente, Baja California Norte, four days (1973)

SWITZERLAND: Field work in the areas of Cudrefin on Lake Neuchatel and Zermatt, etc. (1972, 1976, 1979, 1984, 1997)

PROFESSIONAL ACTIVITIES

Scientific Meetings Attended:

Xth International Congress of Entomology, Montreal, 1956

XVth International Congress of Entomology, Washington, D. C., 1976

XVIII International Congress of Entomology, Vancouver, 1988

International Congress of Systematic and Evolutionary Biology, I, Boulder, Colorado, 1973
Third International Congress of Dipterology, Guelph, 1994

Membership in Scientific Societies (presently or formerly):

American Entomological Society
California Academy of Sciences, Fellow
Central States Entomological Society
Entomological Society of America, membership started on January 1, 1951.
Entomological Society of British Columbia
Entomological Society of Canada
Entomological Society of Washington
Florida Entomological Society
Georgia Entomological Society
The Lepidopterists' Society
New York Entomological Society
Pacific Coast Entomological Society, elected to membership December 6, 1947. Life Member
Russian Entomological Society
Societe Entomologique Suisse
Society of Sigma Xi
Society of Systematic Zoology
Wiener Coleopterologen Verein

Society Activities

Pacific Coast Entomological Society: President, 1961; Executive Council, 1964-present; Editor, 1983; Treasurer, 1964-1981, 1993-1994; Chairman, Historical Committee, 1982-1992, member 1993-present.
Société Entomologique de France: International Scientific Committee, 1984-present.

Miscellaneous:

Member (with wife Madeline M. Arnaud) of the Eastwood Associates at the California Academy of Sciences.
Member (with wife Madeline M. Arnaud) of the Smithsonian Legacy Society, United States Natural History Museum, Washington, DC.
Audubon Society
Golden Gate Swiss Club

GRANTS

Research grants

National Science Foundation G14359. Completion of a catalog of the Tachinidae (Diptera) of North America, north of Mexico. Aug. 24, 1960 (2 months) \$ 550
U.S. Department of Agriculture, Agriculture Research Service 12-14-100-8315(33). A host-parasite catalog of North American Tachinidae (Diptera). April 27, 1966 (2-1/2 years) \$ 19440
U.S. Department of Agriculture, Agriculture Research Service 12-14-100-8315(33). A host-parasite catalog of North American Tachinidae (Diptera). October 26, 1968 (1-1/2 years) \$ 6000
American Philosophical Society Grant No. 6351. Penrose Fund. Types of Tachinidae (Diptera) in European museums. April 25, 1972 (1 year) \$ 600
American Philosophical Society Grant No. 7578. Penrose Fund. The tachinid (Diptera) parasites of Embioptera. April 19, 1976 (1 year) \$ 800

Departmental grants

National Science Foundation DEB 72-02059. Curatorial Support for the Entomology Collection. A five year award from June 1, 1972 through November 30, 1977. Arnaud - Principal Investigator \$217,160

National Science Foundation DEB 77-20680. Care and Use of Systematic Collections for the Department of Entomology. A three year award from June 1, 1977 through November 30, 1980. Arnaud - Principal Investigator and David H. Kavanaugh - Co-investigator \$246,300

National Science Foundation BSR 8509398. Support and the Care and Use of the Systematic Collection of the Department of Entomology. A five year award from October 15, 1985 through October 15, 1990. Arnaud - Principal Investigator (starting as of March 29, 1988) and Wojciech J. Pulawski and David H. Kavanaugh - Co-investigators \$464,000

PUBLIC SERVICE

Specimen identification and reply for inquiries in areas of expertise for the public, government, and science.

Impromptu lectures and tours of Department of Entomology, California Academy of Sciences, for students, children and adults.

Editor and publisher of Myia, a publication on Entomology, volumes 1-7(1) (1979-2004).

CURRENT RESEARCH INTERESTS

Classification, zoogeography, and natural history of Thaumaleidae (Diptera)

Classification, phylogeny, and zoogeography of Nearctic Catharosia (Tachinidae) and Chersodromia and Hilara (Empididae)

LONG TERM RESEARCH GOALS

To add to our knowledge of Diptera through biosystematic studies, particularly in the families Empididae, Tachinidae and Thaumaleidae.

PUBLICATIONS

1. 1950. Record of the genus Procatharosia in North America (Diptera:Tachinidae or Larvaevoridae). The Pan-Pacific Entomologist, 26(4):190.
2. 1951a. Notes on the range extension of Adejeania vexatrix (Diptera: Tachinidae or Larvaevoridae) into Wyoming and British Columbia. Entomological News, 62(6):192.
3. 1951b. A study of the genus Paradejeania Brauer and Bergenstamm (Diptera: Tachinidae or Larvaevoridae). The Canadian Entomologist, 83(12):317-329.
4. 1951c. [Swarming of Blacus n. sp.] The Pan-Pacific Entomologist, 27(1):46.
5. 1951d. Note on the swarming of Brachymyrmex sp. (Hymenoptera: Formicidae). The Pan-Pacific Entomologist, 27(4):171. (by Arnaud and L. W. Quate).
6. 1952a. Reinhardiana new name for Hypenomyia Townsend (Diptera:Tachinidae or Larvaevoridae). The Pan-Pacific Entomologist, 28(1):58.
7. 1952b. Swarming of Blacus sp. in California (Hymenoptera: Braconidae). Entomological News, 63:149-50.
8. 1953. [Tachinisca cyaneiventris Kertész.] The Pan-Pacific Entomologist, 29(1):69.
9. 1954. Hilarella hilarella (Zetterstedt) (Diptera: Sarcophagidae) parasitic upon a rhabdiphorid (Orthoptera: Gryllacrididae). The Canadian Entomologist, 86(3):135-136.
10. 1956a. Drapetis trichura Melander in California (Diptera: Empididae). The Pan-Pacific Entomologist, 32(2):80.
11. 1956b. Description of a new species of Diadocidia from California (Diptera: Mycetophilidae). The Pan-Pacific Entomologist, 32(2):87-90 (by Arnaud and C. P. Hoyt).
12. 1956c. Culicoides goetghebueri, nomen novum for Culicoides setiger Goetghebuer. Proceedings of the Entomological Society of Washington, 58(2):94.
13. 1956d. The heleid genus Culicoides in Japan, Korea and Ryukyu Islands (Insecta: Diptera). Microentomology, 21(3):84-207.
14. 1957a. A bibliographical note on Ceratopogon yezoensis Matsumura (Diptera: Heleidae). Proceedings of the Entomological Society of Washington, 59(2):82.

15. 1957b. The occurrence of Salmacia longipulvilli in the Hawaiian Islands (Diptera: Larvaevoridae). Entomological News, 68(10):259-263.
16. 1958a. Cressonomyia new name for Plagiopsis Cresson preoccupied (Diptera: Ephydriidae). Entomological News, 69(1):24.
17. 1958b. The Entomological publications of Charles Henry Tyler Townsend [1863-1944]; with lists of his new generic and specific names. Microentomology, 23(1):1-63.
18. 1958c. A note on Salmacia frontosa variety atra (Cockerell) (Diptera:Larvaevoridae). The Pan-Pacific Entomologist, 34(2):61-62.
19. 1958d. A synopsis of the genus Melanderia Aldrich (Diptera:Dolichopodidae). Proceedings of the Entomological Society of Washington, 60(4):179-186.
20. 1958. Notes on the taxonomy and habits of Cryptochaetum nipponense (Tokunaga) in Japan (Diptera: Cryptochaetidae). Proceedings of the Entomological Society of Washington, 60:241-245 (by R. H. Foote and Arnaud).
21. 1959a. Note on the rearing of Thysanus fasciatus (Hymenoptera: Thysanidae) from Melanaspis lilacina (Homoptera: Diaspididae) in California. Entomological News, 70(6):163.
22. 1959b. Records of Diptera from Guadalupe Island, Mexico. Entomological News, 70(7):182-185.
23. 1959c. A new host record for Archytas californiae (Walker) in California (Diptera: Tachinidae). The Pan-Pacific Entomologist, 35(3):156.
24. 1959d. A first host record and new distribution records for Philocalia tenuirostris Reinhard (Diptera, Tachinidae). Proceedings of the Entomological Society of Washington, 61(4):186.
25. 1960a. A review of the genus Spathidexia Townsend (Diptera: Tachinidae). The Wasmann Journal of Biology, 18(1):1-36.
26. 1960b. Cryptochetum nipponense (Tokunaga), a parasite of Drosicha corpulenta (Kuwana) in Japan (Diptera: Cryptochetidae and Homoptera:Margarodidae). Proceedings of the Entomological Society of Washington, 62(3):192 (by M. Sasakawa and Arnaud).
27. 1960c. [Monarch butterfly parasitism.] The Pan-Pacific Entomologist, 36(1):51.
28. 1961. [Tipula vestigipennis Doane.] The Pan-Pacific Entomologist, 37(1):61.
29. 1962. [Abstract.] The heleid genus Culicoides in Japan, Korea, and Ryukyu Islands (Insecta: Diptera). (Order No. 62-286). Dissertation Abstracts, 23:358.
30. 1963a. A revision of the genus Borgmeiermyia Townsend (Diptera, Tachinidae). American Museum Novitates, 2133:1-18.
31. 1963b. Systematic studies in the tribe Neominthoini (Diptera, Tachinidae). American Museum Novitates, 2135:1-44.
32. 1963c. Perumyia embiaphaga, a new genus and species of Neotropical Tachinidae (Diptera) parasitic on Embioptera. American Museum Novitates, 2143:1-9.
33. 1963d. Two new genera of the Germariini from the western Nearctic, with notes on related genera (Diptera, Tachinidae). American Museum Novitates, 2157:1-20,
34. 1963e. Types of the Tachinidae (Diptera) in the American Museum of Natural History. Bulletin of the American Museum of Natural History, 125(2):101-137.
35. 1963f. Records of Diptera from Guadalupe Island, Mexico. Second paper. Entomological News, 74(5):117-129.
36. 1963g. A holotype problem and new specific name in Pseudochaeta(Diptera: Tachinidae). Entomological News, 74(7):155-156 (by C. W. Sabrosky and Arnaud).
37. 1963h. Medetera longimana Van Duzee a synonym of Medetera californiensis Wheeler (Diptera: Dolichopodidae). Proceedings of the Entomological Society of Washington, 65(1):62-63.
38. 1963i. The type locality of Eusisyropa virilis (Aldrich and Webber)(Diptera: Tachinidae). Proceedings of the Entomological Society of Washington, 65(2):116.
39. 1964a. A name list of world Culicoides, 1956-62 (Diptera, Ceratopogonidae). Proceedings of the Entomological Society of Washington, 66(1):19-32 (by Arnaud and W. W. Wirth).
40. 1964b. [Book notice.] The fruit flies or Tephritidae of California. By Richard H. Foote and F. L. Blanc. The Pan-Pacific Entomologist, 41(2):154.
41. 1965a. [Recent literature.] Occasional Papers, Bureau of Entomology, California Department of Agriculture. The Pan-Pacific Entomologist, 41(2):89.
42. 1965b. Ceracia dentata a parasite of Chimarocephala pacifica pacifica in California (Diptera: Tachinidae and Orthoptera: Acrididae). The Pan-Pacific Entomologist, 41(2):204-206 (by Arnaud and D. C. Rentz).

43. 1965c. Family Tachinidae (Larvaevoridae). pp. 961-1108. In: Stone, A., C. W. Sabrosky, W. W. Wirth, R. H. Foote, and J. R. Colson (editors), A catalog of the Diptera of America north of Mexico. United States Department of Agriculture, Agriculture Handbook No. 276, iv + 1696 pp. (by C. W. Sabrosky and Arnaud).
44. 1966a. A revision of the parasitic fly genus Polistiopsis Townsend (Diptera, Tachinidae). American Museum Novitates, 2241:1-12.
45. 1966b. The scientific publications of Axel Leonard Melander (1878-1962), with a list of names proposed. Bulletin of the Entomological Society of America, 12(2):137-150.
46. 1966c. [Death of A. E. Pritchard.] The Pan-Pacific Entomologist, 42(1):68.
47. 1966d. Correspondence files of Dr. A. L. Melander. The Pan-Pacific Entomologist, 42(1):73.
48. 1966e. [Recent literature.] Annotated list of the Diplopoda of California. By John S. Buckett. The Pan-Pacific Entomologist, 42(2):101.
49. 1966f. Herbert Ruckes, Sr., 1 February 1895 - 23 December 1965. The Pan-Pacific Entomologist, 42(2):156-157.
50. 1966g. New names for Chironomus sepultus Meunier, 1912 and C. sepultus Melander, 1949 (non Chironomus sepultus Heer, 1849) (Diptera: Chironomidae). The Pan-Pacific Entomologist, 42(2):161-162.
51. 1966h. [Recent literature.] A tentative catalogue of insect natural enemies of injurious insects in Japan. Compiled by Keizô Yasumatsu and Chihisa Watanabe. The Pan-Pacific Entomologist, 42(3):238.
52. 1966i. Carl John Drake, 28 July 1885 - 2 October 1965. The Pan-Pacific Entomologist, 42(3):244-245.
53. 1966j. A new brumal Empis from the San Francisco Bay area, California (Diptera: Empididae). The Pan-Pacific Entomologist, 42(4):332-336 (by Arnaud and J. D. Birchim).
54. 1966k. Date of publication of Genera Insectorum, Fascicle 185, family Empididae by Axel Leonard Melander. The Pan-Pacific Entomologist, 42(4):337-338.
55. 1967a. Occurrence of Bigonicheta spinipennis (Meigen) in California (Diptera: Tachinidae). The Pan-Pacific Entomologist, 43(1):95.
56. 1967b. A remarkable aberrant female of Speyeria nokomis nokomis (Edwards) (Lepidoptera: Nymphalidae). The Pan-Pacific Entomologist, 43(3):179-181, pl. 1 (colored) (by T. W. Davies and Arnaud).
57. 1968a. Francis X. Williams 1882-1967. The Pan-Pacific Entomologist (1967), 43(4):325.
58. 1968b. [Recent literature.] The mosquitoes of the South Pacific (Diptera, Culicidae). By John M. Belkin. The Pan-Pacific Entomologist (1967), 43(4):330.
59. 1968c. Rearing of Egates spiculatus spiculatus (LeConte) from a house beam at Saratoga, California (Coleoptera: Cerambycidae). The Pan-Pacific Entomologist, 44(1):81.
60. 1968d. Discovery of the genus Thaumalea in central California (Diptera: Thaumaleidae). The Pan-Pacific Entomologist, 44(1):83.
61. 1968e. Occurrence of Paradejeania rutilioides nigrescens (Diptera: Tachini[d]ae) in San Francisco, California. The Pan-Pacific Entomologist, 44(1):85-86.
62. 1968f. The American species of the genus Trypetisoma Malloch (Diptera: Lauxaniidae). The Wasmann Journal of Biology, 26(1):107-119.
63. 1969a. Edwin R. Leach--Ninetieth birthday. The Pan-Pacific Entomologist, 45(1):65-66.
64. 1969b. In Memoriam--Elwood Wendell Molseed (5 August 1938--4 April 1967). The Pan-Pacific Entomologist, 45(1):69.
65. 1969c. A 1968 flight of Vanessa cardui Linnaeus in San Francisco and Pacifica, California (Lepidoptera: Nymphalidae). The Pan-Pacific Entomologist, 45(1):69-70.
66. 1969d. Compsilura concinnata (Meigen) (Diptera: Tachinidae) reared from Agraulis vanillae incarnata (Riley) (Lepidoptera: Nymphalidae) at San Leandro, California. The Pan-Pacific Entomologist, 45(1):77.
67. 1969e. Occurrence of the genus Enlinia Aldrich in the western Nearctic (Diptera: Dolichopodidae). The Pan-Pacific Entomologist, 45(1):79.
68. 1969f. [Recent literature.] Occasional Papers, Bureau of Entomology, California Department of Agriculture. The Pan-Pacific Entomologist, 45(3):243-244.
69. 1969g. Polynesian biting midges of the genus Culicoides (Diptera: Ceratopogonidae). Pacific Insects, 11(3/4):507-520 (by W. W. Wirth and Arnaud).
70. 1970a. Lists of the scientific publications and insect taxa described by Francis Xavier Williams (1882-1967). Occasional Papers of the California Academy of Sciences, No. 80, 33 pp.
71. 1970b. Dr. Charles P. Alexander--Honored member. The Pan-Pacific Entomologist, 46(1):65-66.

72. 1970c. "Flying mouse" identified as Cerogenes auricoma (Burmeister) (Homoptera: Fulgoridae). The Pan-Pacific Entomologist, 46(1):68.
73. 1970d. Chlaenius tomentosus zunianus (Coleoptera: Carabidae) preying on an adult Laccinipolia spiculosa (Lepidoptera: Noctuidae). The Pan-Pacific Entomologist, 46(1):69-70.
74. 1970e. Flight of Hilara sp. (family Empididae) at Webber Lake, California. The Pan-Pacific Entomologist, 46(1):72-73.
75. 1970f. Thrips "biting" man. The Pan-Pacific Entomologist, 46(1):76.
76. 1970g. The genus Enlinia Aldrich in America north of Mexico (Diptera:Dolichopodidae). Occasional Papers of the California Academy of Sciences, No. 83, 9 pp. (by H. Robinson and Arnaud).
77. 1970h. The Sefton Foundation Orca Expedition to the Gulf of California, March-April, 1953. General account. Occasional Papers of the California Academy of Sciences. No. 86, 37 pp., frontispiece.
- 77-A. 1970i. Dr. Charles P. Alexander, honored member of the Pacific Coast Entomological Society. *Studia Entomologica*, 13(1/4):476-477. [Reprinted by Father Bormeister of item 71, 1970b.]
78. 1971a. Lectotype designations for certain species of Thysanoptera described by J. D. Hood. *Journal of the Washington Academy of Sciences*, 61(1):24-26 (by K. O'Neill, Arnaud, and V. F. Lee).
79. 1971b. Edwin Ralph Leach, 3 May 1878 - 22 July 1971. The Pan-Pacific Entomologist, 47(4):312.
80. 1972a. G Dallas Hanna, 1887-1970. The Pan-Pacific Entomologist, 48(1):59-61.
81. 1972b. Thomas Wrentmore Cook Entomology Library. The Pan-Pacific Entomologist, 48(1):63.
82. 1972c. Sound production in Agrius pulchellus Bland (Coleoptera: Buprestidae). The Pan-Pacific Entomologist, 48(1):69.
83. 1972d. High flight of butterflies in San Francisco, California. The Pan-Pacific Entomologist, 48(1):72.
84. 1972e. Mass movement of Sympetrum corruptum (Hagen) (Odonata: Libellulidae) in central California. The Pan-Pacific Entomologist, 48(1):75-76.
85. 1972f. Distribution of Enlinia californica (Diptera: Dolichopodidae) in Oregon. The Pan-Pacific Entomologist, 48(1):77-78.
86. 1972g. Butterflies at flowers of Escallonia rubra (Saxifragaceae) in central California. The Pan-Pacific Entomologist, 48(1):78.
87. 1972h. [Book notice.] Catalogue of the Thysanoptera of the world (Part 1). By C. F. Jacot-Guillarmod. The Pan-Pacific Entomologist, 48(2):85.
88. 1973a. Types of Thysanoptera in the collection of the California Academy of Sciences. Occasional Papers of the California Academy of Sciences, No. 105, 138 pp., frontispiece (by Arnaud and V. F. Lee).
89. 1973b. Chris Parrish scorpion collection donated to California Academy of Sciences. The Pan-Pacific Entomologist, 49(1):48.
90. 1973c. Meigenielloides cinereus (Diptera: Tachinidae) reared from Gammarotettix bilobatus (Orthoptera: Gryllacrididae). The Pan-Pacific Entomologist, 49(1):82-83.
91. 1973d. Mass movement of Sympetrum corruptum (Hagen) at Pacifica, California (Odonata: Libellulidae). The Pan-Pacific Entomologist, 49(1):84.
92. 1973e. Hjelle scorpion collection donated to California Academy of Sciences. The Pan-Pacific Entomologist, 49(1):84-85.
93. 1973f. In memoriam--Segundo E. Velastegui B. (15 August 1910--1 July 1972). The Pan-Pacific Entomologist, 49(1):87-88.
94. 1973g. Thomas Wrentmore Cook (1884-1962). The Pan-Pacific Entomologist, 49(2):177-181. (by Arnaud and Mary M. Wale)
95. 1974a. Polistiopsis mima Townsend (Diptera: Tachinidae) in Costa Rica. The Pan-Pacific Entomologist, 50(1):90-91.
96. 1974b. Insects and a mite associated with stored Cannabis sativa Linnaeus. The Pan-Pacific Entomologist, 50(1):91-92.
97. 1974c. Paradejeania rutilioides nigrescens Arnaud reared from Hemihyalea sp. (Diptera: Tachinidae; Lepidoptera: Arctiidae). The Pan-Pacific Entomologist, 50(1):93.
98. 1974d. Collection of adult Deuterophlebia coloradensis Pennak at Boulder Falls, Colorado (Diptera: Deuterophlebiidae). The Pan-Pacific Entomologist, 50(1):94-95.
99. 1975a. Types of Tachinidae (Diptera) in European museums. The American Philosophical Society Year Book 1974, pp. 328-329.
100. 1975b. Myolestes Brethes, 1904 (Diptera: Asilidae), a valid generic name and a senior homonym of Myolestes Matthew, 1909 (Mammalia: Nyctitheriidae). The *Wasmann Journal of Biology*, 32(2):203-205.

101. 1975c. A new species of Chersodromia from Mexico (Diptera: Empididae). *The Pan-Pacific Entomologist*, 51(2):152-158.
102. 1976a. Sarcophaga tibialis Macquart intercepted in California (Diptera:Sarcophagidae). *The Pan-Pacific Entomologist*, 52(1):89-90.
103. 1976b. Professor Charles H. Martin. *The Pan-Pacific Entomologist*, 52(1):90.
104. 1976c. Compsilura concinnata (Meigen) (Diptera: Tachinidae) reared from Halisidota (Lepidoptera: Arctiidae) in California. *The Pan-Pacific Entomologist*, 52(1):90-91.
105. 1976d. [Recent literature.] Revision de la tribu des Rhodopinini Gress. de la Région Asiato-Australienne (Coleoptera, Cerambycidae), première partie. S. Breuning. *The Pan-Pacific Entomologist*, 52(3):250.
106. 1976e. [Obituary.] Robert Grant Wind (1912-1975). *Journal of the Lepidopterists' Society*, 30(3):239-244 (by Arnaud and T. W. Davies).
107. 1977a. Thaumaleidae. pp. 283-285. In: Hurlbert, S. H. (editor), *Biota Acuatica de Sudamerica Austral*. San Diego, xiv + 342 pp.
108. 1977b. Robert Grant Wind (1912-1975). *The Pan-Pacific Entomologist*, 53(1):74-75. (by Arnaud and T. W. Davies).
109. 1977c. Trogonoptera trojana (Staudinger). *The Pan-Pacific Entomologist*, 53(1):75.
110. 1977d. Diurnal flight activity of Autographa californica (Speyer) (Lepidoptera: Noctuidae) in central California, autumn, 1976. *The Pan-Pacific Entomologist*, 53(1):77-78 (by Arnaud and T. W. Davies).
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DIPTERA TAXA NAMED BY PAUL H. ARNAUD, JR.

Order Diptera—116 new taxa (1 new subtribe, 9 new genera, 1 new subgenus, 85 new species, 1 new subspecies, 19 new names for species taxa) as of 2008.

- Ceratopogonidae: *Culicoides balius* Arnaud, 1956:96. Japan. USNM.
- Ceratopogonidae: *Culicoides belkini* Wirth & Arnaud, 1969:509. Society Islands. USNM #69963.
- Ceratopogonidae: *Culicoides charadraeus* Arnaud, 1956:97. Japan. USNM.
- Ceratopogonidae: *Culicoides dubius* Arnaud, 1956:100. Japan. USNM.
- Ceratopogonidae: *Culicoides epactius* Arnaud, 1956:102. Japan. USNM.
- Ceratopogonidae: *Culicoides goetghebueri* Arnaud, 1956:94. New name. Belgium.
- Ceratopogonidae: *Culicoides japonicus* Arnaud, 1956:106. Japan. USNM.
- Ceratopogonidae: *Culicoides koreensis* Arnaud, 1956:109. Korea. USNM.
- Ceratopogonidae: *Culicoides lacicola* Arnaud, 1956:110. Japan. USNM.
- Ceratopogonidae: *Culicoides litus* Arnaud, 1956:111. Japan. USNM.
- Ceratopogonidae: *Culicoides longidens* Arnaud, 1956:111. Ryukyu Islands. USNM.
- Ceratopogonidae: *Culicoides midorensis* Arnaud, 1956:113. Japan. USNM.
- Ceratopogonidae: *Culicoides mihensis* Arnaud, 1956:115. Japan. USNM.
- Ceratopogonidae: *Culicoides okinawensis* Arnaud, 1956:118. Japan. USNM.
- Ceratopogonidae: *Culicoides okumensis* Arnaud, 1956:119. Ryukyu Islands. USNM.
- Ceratopogonidae: *Culicoides omogensis* Arnaud, 1956:119. Japan. USNM.
- Ceratopogonidae: *Culicoides polynesiae* Wirth & Arnaud, 1969:518. Samoa. USNM #69965.
- Ceratopogonidae: *Culicoides samoensis* Wirth & Arnaud, 1969:513. Samoa. USNM #69964.
- Ceratopogonidae: *Culicoides tokunagai* Arnaud, 1956:132. Japan. USNM.
- Ceratopogonidae: *Culicoides toyomaruuae* Arnaud, 1956:135. Japan. USNM.
- Chironomidae: *Chironomus almelanderi* Arnaud, 1966:162. New name for *Chironomus sepultus* Melander, 1949. Miocene, Florissant, Colorado.
- Chironomidae: *Chironomus meunieri* Arnaud, 1966:162. New name for *Chironomus sepultus* Meunier, 1912. "Copal récent de Madagascar."
- Dolichopodidae: *Enlinia californica* Robinson & Arnaud, 1970:2. USA: California. CAS #10176.
- Dolichopodidae: *Enlinia taeniocaudata* Robinson & Arnaud, 1970:7. Canada: British Columbia. USNM #70715.
- Dolichopodidae: *Melanderia crepuscula* Arnaud, 1958: 181. USA: California. USNM #63459.
- Dolichopodidae: *Melanderia (Wirthia)* Arnaud, 1958:184. Type species: *Hydrophorus curvipes* Van Duzee.
- Empididae: *Chersodromia madelinae* Arnaud, 1975:152. Mexico. CAS #12170.
- Empididae: *Empis melanderi* Arnaud & Birchim, 1966:334. USA: California. CAS #9166.
- Empididae: *Nemedina eocenica* Sinclair & Arnaud, 2001:1. Baltic Amber. ZIUL.

Ephydridae: *Cressonomyia* Arnaud, 1958:24. New name for *Plagiopsis* Cresson preoccupied.

Lauxaniidae: *Trypetisoma eutreoides* Arnaud, 1968:111. USA: California. CAS #9566.

Lauxaniidae: *Trypetisoma shewelli* Arnaud, 1968:113. Brazil. CNC .

Lauxaniidae: *Trypetisoma zacatecasense* Arnaud & Gelhaus, 1980:490. Mexico: Zacatecas. USNM #75653.

Mycetophilidae: *Diadocidia stanfordensis* Arnaud & Hoyt, 1956:87. USA: California. CAS #6572.

Sarcophagidae: *Blaesoxipha guadalupensis* Arnaud, 1963:124. Mexico: Guadalupe Island. MCZ.

Rhinophoridae: *Bezzimyia barbarista* Pape and Arnaud, 2001:263. Costa Rica. USNM.

Rhinophoridae: *Bezzimyia bisecta* Pape and Arnaud, 2001:265. Costa Rica. USNM.

Rhinophoridae: *Bezzimyia bulbosa* Pape and Arnaud, 2001:267. Mexico. USNM.

Rhinophoridae: *Bezzimyia floridensis* Pape and Arnaud, 2001:271. USA: Florida. USNM.

Rhinophoridae: *Bezzimyia hansonii* Pape and Arnaud, 2001:273. Costa Rica. USNM.

Rhinophoridae: *Bezzimyia jamaica* Pape and Arnaud, 2001:275. Jamaica. CNC.

Rhinophoridae: *Bezzimyia lapidicina* Pape and Arnaud, 2001:275. Costa Rica. USNM.

Rhinophoridae: *Bezzimyia orestes* Pape and Arnaud, 2001:277. USA: Mexico. CNC.

Rhinophoridae: *Bezzimyia pittieri* Pape and Arnaud, 2001:279. Venezuela. MIZA.

Rhinophoridae: *Bezzimyia platina* Pape and Arnaud, 2001:280. Mexico. CNC.

Rhinophoridae: *Bezzimyia ramicornis* Pape and Arnaud, 2001:281. Ecuador. CNC.

Rhinophoridae: *Bezzimyia setifax* Pape and Arnaud, 2001:282. Costa Rica. INBio.

Rhinophoridae: *Bezzimyia sternothrix* Pape and Arnaud, 2001:285. Costa Rica. INBio.

Rhinophoridae: *Bezzimyia thompsonorum* Pape and Arnaud, 2001:286. USA: Georgia. AMNH.

Rhinophoridae: *Bezzimyia yepezi* Pape and Arnaud, 2001:286. Venezuela. MIZA.

Tachinidae: *Adercomyia* Arnaud, 1963:32. Type species: *Adercomyia sabroskyi* Arnaud. Brazil.

Tachinidae: *Adercomyia biseta* Arnaud, 1963:40. Brazil. AMNH.

Tachinidae: *Adercomyia sabroskyi* Arnaud, 1963:34. Brazil. AMNH.

Tachinidae: *Atactopsis reinhardi* Sabrosky & Arnaud, 1965. New name. USA.

Tachinidae: *Borgmeiermyia peruana* Arnaud, 1963:10. Peru. CAS #6444.

Tachinidae: *Borgmeiermyia rozeni* Arnaud, 1963:12. Brazil. AMNH.

Tachinidae: *Cerotachina* Arnaud, 1963:20. Type species: *Cerotachina elegantula* Arnaud. Brazil.

Tachinidae: *Cerotachina albula* Arnaud, 1963:30. Brazil. AMNH.

Tachinidae: *Cerotachina elegantula* Arnaud, 1963:21. Brazil. AMNH.

Tachinidae: *Chaetogaedia townsendi* Sabrosky & Arnaud, 1965. New name. USA.

Tachinidae: CHAETOGAEDIINA Sabrosky & Arnaud, 1965. New subtribe. USA.

Tachinidae: *Coloradomyia* Arnaud, 1963:13. Type species: *Coloradomyia eucosmophaga* Arnaud. USA: Colorado.

Tachinidae: *Coloradomyia eucosmophaga* Arnaud, 1963:15. USA: Colorado. USNM.

Tachinidae: *Cryptocladocera bezzii* Arnaud, 1963:9. Panama. AMNH.

Tachinidae: *Cryptocladocera mojingensis* Arnaud, 1963:13. Panama. USNM

Tachinidae: *Cryptocladocera pichilinguensis* Arnaud, 1963:17. Ecuador. CAS #6410.

Tachinidae: *Cylindromyia propusilla* Sabrosky & Arnaud, 1965. New name.

Tachinidae: *Metamyia* Arnaud, 1963:2. Type species: *Metamyia dichocerooides* Arnaud. USA: California.

Tachinidae: *Lobomyia* Woodley & Arnaud, 2008:32.

Tachinidae: *Lobomyia neotropica* Woodley & Arnaud, 2008:35. Colombia. USNM.

Tachinidae: *Metamyia dichocerooides* Arnaud, 1963:4. USA: California. AMNH.

Tachinidae: *Metamyia auranticauda* Arnaud, 1963:10. USA: California. HJR.

Tachinidae: *Paradejeania colombiae* Arnaud, 1951. Colombia. AMNH.

Tachinidae: *Paradejeania rutilioides nigrescens* Arnaud, 1951. USA: California. CAS #6369.

Tachinidae: *Perumyia* Arnaud, 1963:2. Type species: *Perumyia embiaphaga* Arnaud. Peru. New genus.

Tachinidae: *Perumyia embiaphaga* Arnaud, 1963:4. Peru. CAS #6411.

Tachinidae: *Polistiopsis williamsi* Arnaud, 1966:7. Paraguay. AMNH.

Tachinidae: *Pseudochaeta brooksi* Sabrosky & Arnaud, 1963:155. USA: Florida. USNM.

Tachinidae: *Reinhardiana* Arnaud, 1952:58. New name for *Hypenomyia* Townsend preoccupied.

Tachinidae: *Tachina californimyia* Arnaud, 1992:166. New name for *Fabriciella intermedia* Reinhard, 1942.

Tachinidae: *Tachina iota* Chao & Arnaud, 1993:48. New name for *Servillia minuta* Chao, 1962.

Tachinidae: *Tachina jawensis* Chao & Arnaud, 1993:49. New name for *Servillia javana* Malloch, 1932. Indonesia.

Tachinidae: *Tachina kunmingensis* Chao & Arnaud, 1993:49. New Name for *Servillia planiforceps* Chao, 1962.
Tachinidae: *Tachina mallochii* Chao & Arnaud, 1993:49. New name for *Servillia atra* Malloch, 1932.
Tachinidae: *Tachina nearctica* Arnaud, 1992:167. New name for *Fabriciella spinosa* Tothill, 1924.
Tachinidae: *Tachina oligoria* Arnaud, 1992:167. New name for *Fabriciella latifrons* Tothill, 1924.
Tachinidae: *Tachina pingbian* Chao & Arnaud, 1993:49. New name for *Servillia apicalis* Chao, 1962.
Tachinidae: *Tachina rohdendorfiana* Chao & Arnaud, 1993:49. New name for *Servillia rohdendorfi* Chao, 1962.
Tachinidae: *Tachina tienmushan* Chao & Arnaud, 1993:50. New name for *Servillia flavipes* Chao, 1962.
Tachinidae: *Tachina zaqu* Chao & Arnaud, 1993:50. New name for *Servillia basalis* Zimin, 1929.
Tachinidae: *Spathidexia antillensis* Arnaud, 1960:6. Puerto Rico. USNM (65010).
Tachinidae: *Spathidexia brasiliensis* Arnaud, 1960:10. Brazil. USNM.
Tachinidae: *Spathidexia reinhardi* Arnaud, 1960:26. USA. USNM.
Tachinidae: *Tachina garretti* Arnaud, 1994:207. New name for *Fabriciella pilosa* Tothill, 1924. Canada.
Thaumaleidae: *Thaumalea becca* Arnaud & Boussy, 1994:60. Canada: British Columbia. CAS #17000
Thaumaleidae: *Thaumalea brothersi* Arnaud & Boussy, 1994:63. USA: California. CAS #17001.
Thaumaleidae: *Thaumalea buckae* Arnaud & Boussy, 1994:66. USA: California. CAS #17002.
Thaumaleidae: *Thaumalea chandlerorum* Arnaud & Boussy, 1994:77. USA: California. CAS #17003.
Thaumaleidae: *Thaumalea coloradensis* Arnaud & Boussy, 1994:79. USA: Colorado. CAS #17004.
Thaumaleidae: *Thaumalea confracta* Arnaud & Boussy, 1994:82. USA: Oregon. CNC #21928.
Thaumaleidae: *Thaumalea ericfisheri* Arnaud & Boussy, 1994:87. CANADA: Alberta. CAS #17005.
Thaumaleidae: *Thaumalea falciformis* Arnaud & Boussy, 1994:91. USA: Idaho. CAS #17006.
Thaumaleidae: *Thaumalea gillespieae* Arnaud & Boussy, 1994:97. USA: Oregon. CAS #17007.
Thaumaleidae: *Thaumalea idahoensis* Arnaud & Boussy, 1994:101. USA: Idaho. CAS #17008.
Thaumaleidae: *Thaumalea lindsayorum* Arnaud & Boussy, 1994:105. USA: Oregon. USNM.
Thaumaleidae: *Thaumalea melanderi* Arnaud & Boussy, 1994:108. USA: California. USNM.
Thaumaleidae: *Thaumalea palouse* Arnaud & Boussy, 1994:110. USA: Idaho. CAS #17009.
Thaumaleidae: *Thaumalea schmidiana* Arnaud & Boussy, 1994:116. USA: California. CNC #21929.
Thaumaleidae: *Thaumalea sonorensis* Arnaud & Boussy, 1994:119. MEXICO: Sonora. CAS #17011.
Thaumaleidae: *Thaumalea waha* Arnaud & Boussy, 1994:121. USA: Idaho. CNC
Thaumaleidae: *Thaumalea zelmae* Arnaud & Boussy, 1994:124. USA: Washington. USNM.
Tipulidae: *Holorusia hespera* Arnaud & Byers, 1990:1. New name for *Holorusia grandis* (Bergroth, 1888; as
Tipula). USA.
Tipulidae: *Tipula (Beringotipula) charpalex* Byers & Arnaud, 2001:9. USA: California. CAS #17306.
Tipulidae: *Tipula efembrowni* Arnaud, 1994:203. New name for *Tipula decorata* Brown, 1985. Florissant shales,
Colorado.

SOME ARTHROPOD TAXA NAMED AFTER PAUL H. ARNAUD, JR.

Class DIPLOPODA:

Order Polyzoniida

Polyzoniidae: *Hypozonium arnaudi* Chamberlin, 1954 (USA: California)

Class ARACHNIDA:

Order Scorpionida

Vaejovidae: *Paruroctonus arnaudi* Williams, 1972 (Mexico)

Order Parasitiformes

Eriophyidae: *Paraphytoptella arnaudi* Keifer, 1959 (Mexico)

Class INSECTA:

Order Collembola

Entomobryidae: *Entomobrya arnaudi* Wray, 1953 (USA: Washington)

Isotomidae: *Stachanorema arnaudi* Wray, 1957 (USA: Washington)

Order Neuroptera

Coniopterygidae: *Semidalis arnaudi* Meinander, 1972 (Mexico)

Raphidiidae: *Raphidia (Agulla) arnaudi* Aspöck, 1973 (Mexico)

Order Odonata

Aeschnidae: *Gynacantha arnaudi* Asahina, 1984 (Assam)
Order Trichoptera
Rhyacophilidae: *Rhyacophila arnaudi* Denning, 1949 (USA: Oregon)
Order Hemiptera
Aradidae: *Chinessa arnaudi* Kormilev, 1984 (Papua New Guinea)
Aradidae: *Mezira arnaudi* Kormilev, 1975 (Kenya)
Aradidae: *Usumbaraia arnaudi* Kormilev, 1979 (Kenya)
Lygaeidae: *Davidsonia arnaudi* Brailovsky, 1982 (Mexico)
Lygaeidae: *Orthaea arnaudi* Brailovsky, 1982 (Peru)
Miridae: *Ilnacora arnaudi* Carvalho, 1986 (Mexico)
Phymatidae: *Lophoscutus arnaudi* Kormilev, 1988 (Mexico)
Order Diptera
Agromyzidae: *Japanagromyza arnaudi* Sasakawa, 1963 (El Salvador)
Agromyzidae: *Liriomyza arnaudi* Spencer, 1981 (USA: California)
Agromyzidae: *Melanoagromyza arnaudi* Sasakawa, 19xx (Mexico)
Agromyzidae: *Phytomyza arnaudi* Sasakawa, 1955 (Japan)
Anthomyiidae: *Alliopsis arnaudi* Griffiths, 1987 (Canada: British Columbia)
Anthomyiidae: *Pegoplata arnaudi* Griffiths, 19xx (USA: California)
Apioceridae: *Apiocera arnaudi* Cazier, 1982 (Mexico)
Asilidae: *Ablautus arnaudi* Wilcox, 1966 (Mexico)
Asilidae: *Nannocyrtopogon arnaudi* Wilcox and Martin, 1957 (USA: California)
Asilidae: *Oxynoton arnaudi* Oldroyd, 1974 (Zimbabwe)
Asilidae: *Stenopogon arnaudi* Martin, 1968 (Mexico)
Asilidae: *Trichomachimus arnaudi* Joseph and Parui, 1995 (India: Assam)
Bombyliidae: *Lepidanthrax arnaudi* Hall, 1976 (USA: California)
Bombyliidae: *Lordotus arnaudi* Johnson and Johnson, 1959 (Mexico)
Camillidae: *Camilla arnaudi* Barraclough and Wheeler, 1995 (Mexico)
Canaceidae: *Nocticanace arnaudi* Wirth, 1942 (USA: California)
Ceratopogonidae: *Culicoides arnaudi* Hubert and Wirth, 1961 (Okinawa)
Ceratopogonidae: *Leptoconops (Holoconops) arnaudi* Clastrier and Wirth, 1978 (USA: California)
Dolichopodidae: *Hydrophorus arnaudi* Hurley, 1956 (USA: California)
Dolichopodidae: *Medetera arnaudi* Harmston, 1951 (USA: California)
Dolichopodidae: *Saccopheronta arnaudi* Negrobov, Vanschuytbroeck and Gritchakov, 1981 (Congo Belge)
Empididae: *Charadrodromia arnaudi* Melander, 1960 (USA: California)
Empididae: *Drapetis arnaudi* Rogers, 1989 (USA: Florida)
Empididae: *Hilara arnaudi* Niesiolowski, 1991 (Poland)
Empididae: *Rhamphomyia (Megacytarus) arnaudorum* Barták, 2002 (USA: California)
Ephydriidae: *Typopsilopa arnaudi* Wirth, 1968 (USA: California)
Muscidae: *Hydrotaea arnaudi* Zielke, 1974 (Kenya)
Mycetophilidae: *Acompterella arnaudi* A. Zaitzev, 1989 (USA: Alaska)
Mycetophilidae: *Anatella arnaudi* A. Zaitzev, 2000:678 (USA: Alaska)
Mycetophilidae: *Fungivora arnaudi* Laffoon, 1957 (USA: California)
Mycetophilidae: *Leiella arnaudi* Lane, 1962 (Chile)
Mycetophilidae: *Mycomya arnaudi* Väisänen, 1983 (USA: Oregon)
Mycetophilidae: *Neocleroplatus arnaudi* Matile, 1990 (Canal Zone)
Mycetophilidae: *Sciophila arnaudi* A. Zaitzev, 1982 (Mexico)
Phoridae: *Neodohrniphora arnaudi* Borgmeier, 1966 (USA: California)
Pipunculidae: *Cephalosphaera arnaudi* Rafael, 1992 (Mexico)
Pipunculidae: *Elmohardyia arnaudi* Rafael, 19xx (Mexico)
Platypezidae: *Plesioclythia arnaudi* Kessel and Clopton, 1970 (Madagascar)
Psychodidae: *Panimerus (Parapanimerus) arnaudi* Wagner, 1984 (USA: North Carolina)
Psychodidae: *Telmatoscopus arnaudi* Quate, 1955 (Mexico)
Sarcophagidae: *Acanthodotheca arnaudi* Lopes, 1976 (Mexico)
Sarcophagidae: *Boettcheria arnaudi* Lopes, 1950 (Peru)
Sarcophagidae: *Miltogramma arnaudi* Zumpt, 1974 (Kenya)

Sarcophagidae: *Parasarcophaga paularnaudi* Lehrer, 1981 (Lebanon)
 Sarcophagidae: *Sarcotakaops arnaudiella* Lehrer, 1985 (Formosa)
 Sarcophagidae: *Toxonagria arnaudi* Pape, 1992 (USA: California)
 Sarcophagidae: *Wulpisca arnaudi* Lopes and Tibana, 1988 (El Salvador)
 Scatopsidae: *Psectrosciara arnaudi* Cook, 1978 (Mexico)
 Scenopinidae: *Brevitrichia arnaudi* Kelsey, 1969 (Mexico)
 Sciomyzidae: *Tetanocera arnaudi* Orth and Fisher, 1982 (USA: Colorado)
 Sphaeroceridae: *Leptocera (Thoracochaeta) arnaudi* Richards, 1963 (Mexico)
 Sphaeroceridae: *Poecilosomella arnaudi* Papp, 1990 (Zaire)
 Sphaeroceridae: *Rachispoda arnaudi* Wheeler, 1995 (Mexico)
 Tabanidae: *Tabanus arnaudi* Philip, 1978 (Mexico)
 Tachinidae: *Archytas arnaudi* Guimaraes, 1963 (Brazil)
 Tachinidae: *Cylindromyia arnaudi* Guimarães, 1976 (Costa Rica)
 Tachinidae: *Phorocera arnaudi* Reinhard, 1956 (USA: California)
 Tephritidae: *Euarestoides arnaudi* Foote, 1958 (USA: California)
 Tipulidae: *Ormosia (Ormosia) arnaudi* Alexander, 1966 (USA: California)
 Tipulidae: *Rhabdomastix (Scandaga) arnaudi* Alexander, 1964 (India)
 Tipulidae: *Tipula (Hesperotipula) arnaudi* Alexander, 1965 (USA: California)
 Trichoceridae: *Trichocera arnaudi* Pratt, 2003 (USA: California).

Order Hymenoptera

Andrenidae: *Perdita (Hexaperdita) arnaudi* Timberlake, 1958 (Mexico)
 Andrenidae: *Perdita pauliana* Timberlake, 1977 (USA: Nevada)
 Dryinidae: *Apterodryinus arnaudi* Olmi, 1984 (Galapagos Islands)
 Dryinidae: *Echthrodolphax arnaudi* Olmi, 1992 (USA: Arizona)
 Psammocharidae: *Anopompilinus arnaudi* Dreisbach, 1952 (USA: California)
 Sphecidae: *Ammophila (Miscus) arnaudi* Tsuneki, 1976 (China)

NEW ARTHROPODA DISCOVERED/CODISCOVERED BY PAUL H. ARNAUD, JR.

[Under preparation, started March, 1996.]

Order Coleoptera:

Curculionidae: *Apion (Coelocephalapion) chiricahuae* Kissinger, 1968:177. Holotype, male, allotype, female, and 31 paratypes. Forest Camp, South Fork Cave Creek, Cochise County, Arizona. CAS Type xxxx.
 Tenebrionidae: *Cryptadius sonora* Berry, 1974. Paratype, male, San Pedro Bay, Sonora, Mexico, 3 Apr. 1953 (PHA), in CAS. (Other types: Holotype, allotype and 1 paratype).
 Throscidae: *Aulonothroscus nipponicus* Cobos, 1970(1969):50. Holotype, allotype, and two paratypes, Kyoto, Kyoto Prefecture, Japan, 10 Oct. 1954 (PHA). Two paratypes collected by Koebele also designated. CAS type xxxx.

Order Diptera:

Anthomyiidae:

Coenosia (Neodexiopsis) setilamina Hockett, 1966:280. Holotype. Bijou, El Dorado County, California, 24 Jun. 1953. Supposedly CAS, not there.
Hydrophoria pilipyga Hockett, 1966:272. Holotype. Kings Creek Meadow, Lassen National Park, Shasta County, California, 23 Jul. 1950. CAS (9416).
Hylemya (Delia) glabritheca Hockett, 1966:33. Holotype. Redwood City, San Mateo County, California, 29 Mar. 1948. CAS (9433). Allotype, female, same locality, 27 Mar. 1948; Paratypes, 5 females, topotypes, 24 Apr. 1948.
Linnophora invada Hockett, 1966:285. Holotype, allotype, 3 Paratypes. Palm Springs, Riverside County, California, 12 Jan. 1953; 2 paratypes 12 Dec. 1952. CAS (9425).
Pegomya affinis fuscopunctata Hockett, 1966:271. Holotype, allotype. Palm Springs, Riverside County, California 14 Jan. 1953. CAS (9413).
Pegomya bicolor defecta Hockett, 1966:272. Holotype. La Honda, San Mateo County, California 3 Apr. 1949. CAS (9414).

- Pegomya casualis* Hockett, 1967:53. Holotype. Male, San Francisco, California 19 Mar. 1964; Allotype female dated 25 Mar. 1964; Paratypes: 5 females, same data as allotype, 2 females 6 and 7 Apr. 1964. CAS (9434).
- Pegomya diffinis* Hockett, 1966:261. Holotype, Allotype. San Felipe, Baja California, Mexico, 19 Feb. 1954. CAS Type No. 9407.
- Pegomya (Phoraea) flaviventris* Griffiths, 19xx:xxx. Paratypes: 4; 3 San Francisco, California, 19 Mar 1964 and 1 25 Mar 1964. Paratypes: 2, San Diego, California, 8 Mar 1953.
- Pegomya hirticauda* Hockett, 1966:262. Holotype. Stanford University, Santa Clara County, California, 16 Nov 1953. CAS #9409. Paratypes: 4 paratype males same data as holotype; 4 topotypic paratypes, 13 Dec. 1953; 1 paratype, Stanford University, California, 29 Mar 1949; 1 paratype, Redwood City, California, 13 Dec. 1953.
- Pegomya rubrivaria* Hockett, 1967:54. Paratype. One female, Taylor State Park, Marin County, 8 Mar. 1949.
- Pegomya umbripennis* Hockett, 1966:268. Paratypes: 1 female, Redwood City, San Mateo County, California, 21 Mar. 1948; 1 male, Stanford University, Santa Clara County, 7 Feb. 1951; 1 male, Fort Lewis, Pierce County, Washington 6 Apr. 1946.
- Zaphne coquilletti* Griffiths, 1998:2092. Paratype xxxx
- Zaphne mercedes* Griffiths, 1998:2096. Holotype, male, 2 male and 15 female paratypes, near Lake Merced, San Francisco city and county, California, USA (PHA), CAS type xxxxx; 1 paratype, Lake Merced, 9 Apr 1964; 6 male, 3 female paratypes, Lake Merced; 1 male paratype 1.9 miles NE Muir Beach on Highway 1, Marin County, California, 25 Apr 1964; all PHA (CAS).

Asilidae:

- Bohartia martini* An. & Wood, 19xx: Paratypes (20): Pinecrest, Tuolumne County, Pinecrest, (PHA), 4 specimens 16 Jul 1948; 10 paratypes 31 Jul 1948; 6 paratypes 12 Aug 1948, in CAS.
- Furcilla petila* Martin, 1975:77. Holotype male. CAS Type No. 12580.
- Lasiopogon coconino* Cannings, 2002. Paratypes, 2 males, Cave Springs Campground, 5400 feet, [Oak Creek Canyon], Coconino County, Arizona, USA, 22 May 1971, PHAJr & MMArnaud.
- Machimus latapex convexus* Martin, 1975:22. Holotype male. Pinecrest, Tuolumne County, California, USA, 23 Aug. 1947, PHAJr. CAS Type No. 12589.
- Nannocyrtopogon arnaudi* Wilcox and Martin, 1957:379. Holotype male, Allotype female. Redwood City, San Mateo County, California, USA, 2 Jun. 1951, PHAJr. CAS Type No. 6507.
- Parataracticus arenicolus* Martin, 1968:182. xxxx. CAS Type No. 10257.
- Stenopogon arnaudi* Martin, 1968:375. Holotype, male, Rancho Viejo, elevation 7000 feet, 11 Jun. 1953, México, Baja California, Sierra San Pedro Mártir; Allotype and 12 Paratypes. CAS Type No. 9946.
- Stenopogon hamus* Martin, 1968:385. Holotype. Male, La Grulla, elevation 6900 feet, 12 Jun. 1953, México, Baja California, Sierra San Pedro Mártir, CAS Type No. 9943. Allotype, female, Rancho Viejo, elevation 7000 feet, México, Baja California, Sierra San Pedro Mártir, 14 Jun. 1953. Paratypes, male same data as holotype; female, same data as allotype.
- Zabrops wilcoxi wilcoxi* Fisher, 1977. Paratypes, 2 males, 2 females, Redwood City, San Mateo County, California, USA, 2 Jun. 1951 (PHA); same locality, 8 males, 30 May 1954 (PHA); Paratypes, 1 male, Stanford University, Santa Clara County, California, USA, 3 May 1956, 2 males, 2 females, 6 May 1954, 4 males, 1 female, 18 May 1951 (PHA); Paratypes, 5 males, 5 females, Salinas, Monterey County, California, USA, 25 May 1952 (PHA). Part of a large type series.
- Zabrops wilcoxi playalis* Fisher, 1977. Paratypes, 10 males, 7 females, Pismo Beach, San Luis Obispo County, California, USA, 2 Jun. 1959 (PHA), in CIS, CDA. Part of large type series.

Bombyliidae:

- Lepidanthrax arnaudi* Hall, 1976:330.
- Lepidanthrax chrysus* Hall, 1976:333. Holotype male, allotype female, xx paratypes. Guaymas, Sonora, Mexico, 5 Apr. 1953, PHAJr. CAS Type No. 12146.
- Lordotus arnaudi* Johnson and Johnson, 1959:19.
- Mythicomyia annulata* Melander, 1961:181. Paratype, Pulpito Anchorage, Baja California, Mexico, 31 Mar. 1953. CAS.
- Mythicomyia aperta* Melander, 1961:183. Holotype, male, Aqua Verde Bay, Gulf of Mexico, Mexico, 26 Mar. 1953. CAS.

- Mythicomymia cabra* Melander, 1961:194. Paratype, xxxx, Redwood City, California. 20 Aug. 1950.
- Mythicomymia collina* Melander, 1961:195. Paratype, xxxx, Stanford University, California. 26 Sept. 1951.
- Mythicomymia collina actites* Melander, 1961:196. Paratype, xxxx, Big Sur State Park, California. 18 June 1949.
- Mythicomymia cruralis* Melander, 1961:201. Holotype, male, and paratype male, Los Frailes, Baja California, Mexico. 18 March 1953.
- Mythicomymia fumipennis* Melander, 1961:207. Holotype, male, San Esteban Island, Gulf of California, Mexico. 2 Apr. 1953.
- Mythicomymia gausa* Melander, 1961:208. Paratype, male, 10 miles east of San Quintin, Baja California, Mexico, 10 Sept. 1955; Borrego Valley, California, 18 April. 1957.
- Mythicomymia gynandra* Melander, 1961:211. Holotype, male, Pulpito Anchorage, Baja California, Mexico, 31 Mar. 1953. CAS.
- Mythicomymia humeralis* Melander, 1961:213. Holotype, male, Pulpito Anchorage, Baja California, Mexico, 31 Mar. 1953. CAS.
- Mythicomymia irrupta* Melander, 1961:218. Paratype, xxxx, Isla Partida, Gulf Lower California, Mexico, 23 Mar. 1953; Pulpito Anchorage, Gulf California, Mexico, 31 Mar. 1953; Palm Springs, 23 Feb. 1954.
- Mythicomymia munda* Melander, 1961:228. Holotype, male, Carmen Island, Ballandra Bay, Gulf of California, Mexico, 28 Mar. 1953. CAS.
- Mythicomymia mutabilis* Melander, 1961:229. Paratype, xxxx, Pinecrest, Tuolumne County, California, 22 Jun. 1948.
- Mythicomymia petiola* Melander, 1961:238. Holotype, male, Pinecrest, Tuolumne County, California, 22 Jul. 1948.
- Mythicomymia potrix* Melander, 1961:242. Paratype, xxxx, Pinecrest, Tuolumne County, California, 16 Jul. 1948.
- Mythicomymia pravipes* Melander, 1961:243. Paratype, xxxx, Stanford University, California, 27 Sept. 1950.
- Mythicomymia pruinosa* Melander, 1961:244. Paratype, Sacramento, California, 29 Jul. 1950; Paratype, Guaymas, Mexico, 5 Jun. 1953.
- Mythicomymia rhaeba* Melander, 1961:246. Paratype(s), Ballandra Bay, Carmen Island, Mexico, 23 Mar. 1953.
- Mythicomymia robiginosa* Melander, 1961:249. Paratype, Redwood City, San Mateo County, California, 20 Aug. 1950, on *Baccharis pilularis*.
- Mythicomymia scutellata* var. *binotata* Melander, 1961:261/ Holotype, Cabo San Lucas, Baja California, Mexico, 16 Mar. 1953, in CAS Type No. 12243. Allotype, Ballandra Bay, Carmen Island, Gulf of California, Mexico, 28 Mar. 1953, in CAS.
- Mythicomymia tenthes* Melander, 1961:253. Paratype(?s), Ballandra Bay, Isla Carmen, Gulf of California, Mexico, 28 Mar. 1953.
- Mythicomymia triformis* Melander, 1961:255. Paratype(s?), Isla Cerralbo, Gulf of California, Mexico, 24 Mar. 1950. As other records.
- Mythicomymia tubicen* Melander, 1961:257. Holotype, Los Frailes, Baja California, Mexico, 18 Mar. 1953, CAS Type No. 6363. Several hundred Paratypes.

Ceratopogonidae

- Stilobezzia (Stilobezzia) tokunagai* Das Gupta and Wirth, 1968:131. Holotype, female, Midoro Pond, Kyoto Prefecture, Honshu, Japan, Jun. 1955 (PHA), In USNM 69487. Two paratypes, same data as holotype.

Cuterebridae

- Cuterebra ruficrus obscuriventris* Sabrosky, 1986:111. Holotype, female, Boggs Lake, 2,750 feet, 6.5 mi SSE Kelseyville, Lake County, California, USA, 20 Aug. 1966 (PHA). In USNM. Described from type series of 6 specimens.

Dolichopodidae:

- Chrysotus bajaensis* Harmston, 1968:23. Holotype, male, Rancho Viejo, Sierra San Pedro Martir, Baja California, Mexico, 7,000 feet, 14 June 1953 (PHA). (CAS type xxxxx).
- Chrysotus silvicolus* Harmston, 1951:11. Holotype, male, allotype, female, and Paratypes (5 male and 15 females), Pinecrest, Tuolumne County, California, 29 June to 18 August, 1948 (PHA) (CAS type xxxx). Paratypes, 21 males and 1 female, Belle Meadows, Tuolumne County, California, date xxxx (PHA).
- Medetera arnaudi* Harmston, 1951:12. Holotype, male, allotype, female (CAS type xxxx), and paratypes (33 males, 48 females), Redwood City, California, 2 Sep. 1943 - 12 Jun. 1948 (PHA). Paratype, 1 male, San Jose, California, 20 May 1947 (PHA).

Neurigona californica Harmston, 1972:154. Holotype, male, Greyhound Rock, Santa Cruz County, California, 22 May 1952 (PHA). (CAS, type xxxx).

Drosophilidae:

Cladochaeta genuinus Grimaldi & Nguyen, 1999:19. Collected specimens of this new species, but designated paratypes. One male, Puerto Vallarta, Jalisco, Mexico, 31 December 1970 (PHA & MMA); 1 male, same locality and collectors, but 1 January 1971; both CAS.

Cladochaeta neoinversa Grimaldi & Nguyen, 1999:66. Holotype, male, and 3 female paratypes, El Bonito, 7 miles south of Ciudad Valles, 300 feet, San Luis Potosi, Mexico, 20 December 1970 (PHA & MMA) (CAS type xxxxx).

Empididae:

Charadrodromia arnaudi Melander, 1960. Holotype male and

Chersodromia madeliniae Arnaud, 1975.

Drapetis arnaudi Rogers, 1989:181. Holotype male and 3 paratypes, Archbold Biological Station, Highlands County, Florida, USA, 7 Oct. 1964 (PHA), CAS Type No. 13448.

Drapetis destituta Rogers, 1989:184. Holotype, male, and 1 paratype male, Agua Caliente (San Carlos), 18.5 km E of Maneadero, Baja California, Mexico, 6 Jul. 1973 (PHA), CAS Type No. 13451.

Drapetis solaris Rogers, 1989:191. Holotype, male and 3 male paratypes, Teotihuacan Pyramid to the Sun, Mexico, Mexico, 27 Dec. 1970 (PHA & MMA), CAS Type No. 13455.

Drapetis torulosa Rogers, 1989:192. Holotype, male, and 3 male paratypes, Agua Caliente (San Carlos), 18.5 km E of Maneadero, Baja California, Mexico, 6 Jul. 1973 (PHA), CAS Type No. 13459.

Empis melanderi Arnaud and Birchim, 1966:334.

Rhamphomyia (Megacyttarsus) acuta Barták, 2002:35. Holotype, male, Garfield, on South Arkansas River, 2990 m., Chaffee County, Colorado, 12 Aug. 1973. Paratypes, 5 males, same data as holotype; 1 male paratype, dated 13 Aug. 1973. Paratypes, 4 males, Porcupine United States Forest Service Campground, Hope, Alaska, USA, 11 Jul. 1996 (PHA & MMA) (CAS).

Rhamphomyia (Megacyttarsus) appendens Barták, 2002:43. Paratype, 1 male, creek draining Victor Lake, Victor Lake Provincial Park Picnic Ground, British Columbia, Canada, 8 Aug. 1986 (CAS).

Rhamphomyia (Megacyttarsus) aquaria Barták, 2002:46. Paratypes, 4 males, Cave Springs Campground, 5,400 feet, Oak Creek Canyon, Coconino County, Arizona, 21 May 1971. CAS.

Rhamphomyia (Megacyttarsus) arnaudorum Barták, 2002:53. Holotype, male, and 23 male paratypes, Oakzanita Springs Park, alt. 4200 feet, San Diego County, California, USA, date. Paratype, 1 male, San Luis Rey Campground, San Diego County, California, USA, 28-Jun. 1968. Paratype, 1 male, Black Mountain Creek, 11 km NW. Idyllwild, 1535 m, 1 Jul. 1968..

Rhamphomyia (Megacyttarsus) articularis Barták, 2002:56. Paratypes, 2 males, Corte de Madera Creek, Portola Valley, San Mateo County, California, USA, 13 Jun. 1971.

Rhamphomyia (Megacyttarsus) auricoma Barták, 2002:61. Paratypes, 4 males, Seward, Kenai Peninsula, Alaska, USA, 26 Jun. 1978.

Rhamphomyia (Megacyttarsus) calimenda Barták, 2002:66. Paratypes, 7 males, Oakville, Napa County, California, USA, 25 Apr. 1971. Paratypes, 4 males, Arroyo Sausal W of Point Reyes-Petaluma road, 14 Apr. 1984.

Rhamphomyia (Megacyttarsus) canella Barták, 2002:69. Paratype, male, Salmon Creek Campground, 8 km NE Sierra City, 1768 m, 5 Jul. 1975. Paratypes, 2 males, Eagle Falls, Emerald Bay, El Dorado County, California, USA, 2 Jun. 1971. Paratype, male, Salmon Valley Campground, 14.7 miles N of Prince George, 4 Jun. 1996.

Rhamphomyia (Megacyttarsus) cavicornuta Barták, 2002:72. Holotype, male and 2 paratype males, McBride Springs, Siskiyou County, California, USA, 8 Aug. 1967. CAS.

Rhamphomyia (Megacyttarsus) comosa Barták, 2002:75. Paratypes, 4 males, Southpark RV Park, 4 mi. S. Prince George, Highway 97, British Columbia, Canada, 1/3 Jun. 1996.

Rhamphomyia (Megacyttarsus) disconnecta Barták, 2002:89. Paratypes, 4 males, waterfall, 29 km N Seward, Seward-Anchorage Highway S-18.2, Kenai Peninsula, Alaska, USA, 27 Jul. 1978. Paratype, male, White Pass, east side, Klondike Highway 2, British Columbia, Canada, 1 Aug. 1996.

Rhamphomyia (Megacyttarsus) fortis Barták, 2002:98. Paratypes, 3 males, Scuppa Rest Area, south of Lytton, stop 9, Trans Canada Highway 1, British Columbia, Canada, 17 Jun. 1989.

- Rhamphomyia (Megacyttarsus) hortiropha*** Barták, 2002:106. Holotype, male, meadow at Six Glaciers, trail below Tea House, Lake Louise, Banff National Park, Alberta, Canada, 12 Aug. 1986. Paratype, male, Moraine Lake, Banff National Park, Alberta, Canada, 1 Aug. 1986. Paratypes, 2 males, Yukon Government Campground, S of Whitehorse, Wolf Creek, Alaska Highway 1, Yukon Territory, Canada, 25 Jun. 1989. Paratype, male, ca. 1.6 km N Glacier, Glacier National Park, British Columbia, Canada, 14 Jul. 1974.
- Rhamphomyia (Megacyttarsus) kubilki*** Barták, 2002:122. Holotype, male, and one male paratype, Mountain Mill House, 475-550 m, 12 km North Calistoga, Highway 29, Napa County, California, USA, 11 Jun. 19??,
- Rhamphomyia (Megacyttarsus) latilobata*** Barták, 2002:124. Paratypes, 4 males, Buckinghorse Provincial Campground, Alaska Highway DC-175 (281.6 km), British Columbia, Canada, 27 Jun. 1978. Paratype, male, McDonald Campground, Muncho Lake Provincial Campground, Alaska highway 97, British Columbia, Canada, 22 Jun. 1989; same locality, 2 paratype males, 8 Jun. 1996 (PHA & MMA).
- Rhamphomyia (Megacyttarsus) longidiscalis*** Barták, 2002:137. Paratypes, 4 males, creek along road from Lightning Lake Campground to Strawberry Flats, Manning Provincial Park, British Columbia, Canada, 5 Aug. 1986. Paratypes, 2 males, Big Flat Public Camp, 1510 m, South Fork Salmon River, Siskiyou County, California, USA, 21 Aug. 1980.
- Rhamphomyia (Megacyttarsus) naias*** Barták, 2002:142. Paratypes, 2 males, creek along road from Lightning Lake Campground to Strawberry Flats, Manning Provincial Park, British Columbia, Canada, 5 Aug. 1986. Paratypes, 2 males, small cascading creek 6.3 road mi. below summit mount Revelstoke, Mt. Revelstoke National Park, British Columbia, Canada, 8 Aug. 1986. Paratypes, 7 males, Valdez Glacier Campground, Valdez, Alaska, USA, ½ Aug. 1978.
- Rhamphomyia (Megacyttarsus) paragramma*** Barták, 2002:154. Holotype, male, and 1 paratype male, San Jose Creek, south of San Jose School, 55 m, Novato, Marin County, California, USA, 18 Mar. 1973. Paratypes, 2 males, Novato Indian Valley Colleges, creek ca. 50 m, Marin County, California, USA, 4 Mar. 1972.
- Rhamphomyia (Megacyttarsus) parvisinuata*** Barták, 2002:156. Paratype, male, Salmon Creek Campground, Sierra County, California, USA, 5 Jul. 1975; 3 paratype males, same locality, 6 Jul. 1975. Paratype, male, Little Truckee River Upper Campground, Sierra County, California, USA, 6 Jul. 1975.
- Rhamphomyia (Megacyttarsus) ringens*** Barták, 2002:183. Paratype, male, Corte de Madera Creek, Portola Valley, San Mateo County, California, USA, 26 May 1968; same locality, 2 male paratypes, 13 Jun. 1971, and paratype male, 26 May 1976.
- Rhamphomyia (Megacyttarsus) rivalis*** Barták, 2002:186. Paratypes, 3 males, Rancheria Government Campground, Alaska Highway 1, Yukon Territory, Canada, 24 Jun. 1996 (PHA). Paratypes, 2 males, Morley River Territorial Campground, Alaska Highway DC-777, Yukon Territory, Canada, 1 Jul. 1978 (PHA). Paratype, male, Buckinghorse Provincial Campground, Alaska Highway DC-175 (281.6 km), 27 Jun. 1978 (PHA). Paratype, male, Clear Creek, Klondike Loop J-251, Yukon Territory, Canada, 5 Jul. 1978 (PHA).
- Rhamphomyia (Megacyttarsus) triangulifera*** Barták, 2002:202. Paratype, male, small creek at Dry Ridge Trail and road to Blackwall subalpine meadows, Manning Provincial Park, British Columbia, Canada, 4 Aug. 1986 (PHA).

Ephydriidae:

Cavatorella spirodelae Deonier, 1995:260. Holotype. Kyoto, Midoro Pond, Japan, 3 Jun. 1955. USNM.

Mycetophilidae:

Allodia (Brachycampta) adunca A. Zaitzev, 1992:9. Holotype, male. Matanuska Glacier Park Resort, Alaska, 30 Jul. 1978. CAS Type 16704.

Allodia (Brachycampta) hastata A. Zaitzev, 1992:10. Paratype, male. Matanuska Glacier Park, Alaska, 30 Jul. 1978. CAS. Paratype, male. Walker Ford Campground, Klondike Loop, 7 Jul. 1978. CAS.

Allodia (Brachycampta) pseudobarbata A. Zaitzev, 1992:11. Holotype, male. Moon Lake, Alaska Highway, Alaska, 8 Aug. 1978. CAS Type 16706.

Allodia (Brachycampta) racemosa A. Zaitzev, 1992:11. Holotype, male, and ???4 male paratypes. Valdez Glacier Campground, Valdez, Alaska, 1 Aug. 1978. CAS Type 16707.

Anatella arnaudi A. Zaitzev, 2000:911. Holotype, male. Honolulu Creek, George Parks Highway, A-178, Alaska, 17 Jul. 1978 (PHA). CAS Type xxxxxx. 1 male paratype, Valdez Glacier Campground, Valdez, Alaska, 1 Aug. 1978 (PHA).

- Anatella mendosa* A. Zaitzev, 2000:680. Holotype, male, Valdez Glacier Campground, Valdez, Alaska, 1 Aug. 1978 (PHA). CAS Type xxxxxx. 4 male paratypes, same data.
- Brevicornu cuspidatum* A. Zaitzev, 1992:13. Holotype, male. Valdez Glacier Campground, Valdez, Alaska, 1 Aug. 1978. CAS Type 16708.
- Brevicornu improvisum* A. Zaitzev, 1992:13. Holotype, male. Matanuska Glacier Park Resort, 30 Jul. 1978. CAS Type 16709.
- Brevicornu proprium* A. Zaitzev, 1992:13. Holotype, male. Waterton Lakes National Park, Cameron Lake, Alberta, Canada, 24 Aug. 1981. CAS Type 16710. Paratypes, 14 males, Valdez Glacier Campground, Alaska, 2 Aug. 1978 and ????
- Brevicornu subarcticum* A. Zaitzev, 1992:14. Holotype, male. Valdez Glacier Campground, Valdez, Alaska, 1 Aug. 1978. CAS Type 16711. Paratypes, 9 males, topotypic.
- Ectrepesthoneura canadensis* A. Zaitzev, 1993:34. Holotype, male. Kistatinaw Public Campground,, British Columbia, Canada, 26 Jun. 1978, P.H. Arnaud,Jr.. CAS Type xxxxx.
- Phthinia ramificans* A. Zaitzev, 1993:36. Holotype, male. Alaska Highway, Prophet River Provincial Campground, British Columbia, Canada, 13 Aug. 1978. P.H. Arnaud,Jr. CAS Type xxxxx.

Phoridae:

- Megaselia (Aphiochaeta) cavifemur* Borgmeier, 1964:xxx. Paratypes [number ?], Westridge, San Mateo County, California, 25 Oct. 1957, P.H. Arnaud,Jr.; Stanford University, California, no date, Arnaud?
- Megaselia (Aphiochaeta) croceiclava* Borgmeier, 1964:326. Paratype,
- Megaselia (Megaselia) hispida* Borgmeier, 1964:108. Holotype, male, Redwood City, California, 15 Nov. 1953 (PHA). CAS Type 9221.
- Megaselia (Aphiochaeta) ilca* Borgmeier, 1964:336. Holotype male. Pinecrest, Tuolumne County, California, USA, 19 Jul. 1968, PHAJr. CAS Type No. 9220.
- Neodohrniphora arnaudi* Borgmeier, 1966. Holotype, male, and 3 male paratypes, Stanford University, Santa Clara County, California, USA, 20 Jul. 1953 (PHA). CAS Type 9222.
- Pericyclopera floricola* Borgmeier, 1966. Holotype female. Stanford University, California, USA, 19 Sep. 1957, PHAJr. CAS Type No. 9223.

Pipunculidae:

- Pipunculus abnormis* Skevington, 1998:25. Paratype female, Southwestern Research Station, 5 mi west of Portal, Cochise County, Arizona, USA, 6 Oct. 1966 (PHA). In CAS.
- Pipunculus kotaneni* Skevington, 1998:63. Holotype male, Kyle Canyon, 2,200 m, Charleston Peak, Clark County, Nevada, USA, 14 Jul. 1966 (PHA), CAS type no. xxxxx. Paratype, one male, Southwestern Research Station, 5 miles west of Portal, Cochise County, Arizona, USA (PHA), in CAS.
- Pipunculus nanus* Skevington, 1998:69. Paratype male, Middle Boulder Creek, 16 km west of Boulder on highway 119, Boulder County, Colorado, 2,280 m, 8 Aug. 1973 (PHA) in CAS.

Sarcophagidae:

- Acanthotheca arnaudi* Lopes, 1976:63. Holotype male, allotype female, and 9 paratypes. CAS Type No. 12385.
- Acanthotheca cigana* Lopes, 1976:62. Holotype male. Alamos, Sonora, Mexico, 5 Jan. 1971, PHAJr. & MMA. CAS Type No. 12386.
- Acanthotheca singularis* Lopes, 1976:65. Holotype male. 0.5 mi. E. of Hamilton Ranch Airfield, Baja California Norte, Mexico, 28 Apr. 1963, HBL & PHAJr. CAS Type No. 12387.
- Emblemasoma mexicana* Lopes, 1988:24. Holotype, male, Aguas Calientes (San Carlos), 18.5 km east of Maneadero, Baja California Norte, Mexico, 6 Jul. 1973 (PHA) CAS type xxxx.
- Nephochaetopteryx limpidipennis* Lopes, 1976:70. Holotype male and allotype female. Bahia San Carlos, Sonora, 1 Mar. 1963, PHAJr. CAS Type No. 12390.

Scatopsidae:

- Akorhexoza cactivora* Cook, 1978. Paratypes, male and female, Teotihuacan pyramid to the sun, Mexico, 27 Dec. 1970 (PHA and MMA), at flowers *Cassia tomentosa* Linn. f. in CAS. Other types - holotype and one paratype from Mexico in Univ. Minn.

Scenopinidae:

- Brevitrichia arnaudi* Kelsey, 1969:171. Holotype, male. Los Frailes, Baja California, Mexico, 18 Mar. 1953. CAS Type 8930. Two female Paratypotypes and one male paratype Cabo San Lucas, Baja California, Mexico, 16 Mar. 1953, in CAS.
- Brevitrichia oculivirida* Kelsey, 1969:202. Holotype, male. Isla Ildefonso, Gulf of California, Mexico, 30 Mar. 1953. CAS Type 8931.
- Brevitrichia pruinosa* Kelsey, 1969:206. Holotype, male and 4 male paratypes. Púlpito (anchorage), Baja California, Mexico, 20 Mar. 1953. CAS Type 8932.
- Scenopinus seftoni* Kelsey, 1969:152. Holotype, male, allotype, female, and 2 male paratypes. Isla Espíritu Santo, Gulf of California, Mexico, 23 Mar. 1953. CAS Type 8928.

Sphaeroceridae:

- Copromyza (Crumomyia) nipponica* Richards, 1964:617. Holotype, male, allotype female. Ohara, Kyoto, Japan, 30 Apr. 1955, PHAJr. CAS Type No. 6565.
- Leptocera (Thoracochaeta) arnaud* Richards, 1963:239. Holotype male, allotype female, 39 paratypes. San Bartolome, Baja California, Mexico, 12 Mar. 1953, PHAJr. CAS Type No. 6563.
- Pterogramma ochrofrons* Smith and Marshall, 2004:23. Paratypes, male and female, San Luis Potosi, El Bonito, 7 mi. S of Ciudad Valles, Mexico, 19 Dec. 1970 (PHA & MMA) (CASC).; Paratypes, male & female Tamazunchale, Mexico, 22 Dec. 1970 (PHA & MMA) (CASC).
- Pterogramma portalense* Smith and Marshall, 2004:29. Paratypes, males and females, Southwestern Research Station, 5 mi. west of Portal, Cochise County, Arizona, USA, 11 Sep. 1966 (male), 3 Oct. 1966 (2 females), 3 Oct. 1966 (male, 2 females), 4 Oct. 1966 (male) (PHAJr) (CASC).
- Rachispoda arnaudi* Wheeler, 199x:xxx. Holotype male. Agua Caliente (San Carlos), Baja California, Mexico, 3 Jul. 1973, PHAJr. CAS Type No. xxxxx.
- Rachispoda hespera* Wheeler, 199x:xxx. Holotype male. Pritchard, British Columbia, Canada, 13 Jul. 1973. PHAJr. CAS Type No.
- Rachispoda worfi* Wheeler, 199x:xxx. Holotype male. creek below Baring Falls, Sun Point Trail, Glacier National Park, Montana, USA. CAS Type No.

Tachinidae:

- Admontia offella* Reinhard, 1962:223. Paratypes. Southwestern Research Station, 5 miles west of Portal, 5,400 feet, Cochise County, Arizona, USA, September 1959.
- Cochisemyia regalis* Reinhard, 1964:36-37. Holotype. Rustlers Park, 8,500', Chiricahua Mountains, Cochise County, Arizona, USA, 4 Sept. 1959. New genus, new species.
- Macromyia crocata* Reinhard, 1968?:1283. Paratypes, 2 males and 9 females. Southwestern Research Station, 5 miles west of Portal, 5,400 feet, Cochise County, Arizona, 21 Oct. 1964 and 2 Oct. 1966.
- Metamyia dichocerooides* Arnaud, 1963:4.
- Paradejeania rutilioides nigrescens* Arnaud, 1951:83. Holotype male
- Parcipromus silus* Reinhard, 1958:227-228. Holotype male, Agua Verde Bay, Baja California, Mexico, 26 Mar. 1953. New genus, new species.
- Phorocera arnaudi* Reinhard, 1956:106. Holotype male and allotype female, 2 male paratypes. Chino Canyon, Palm Springs, Riverside County, California, 22 Dec. 1950. 3 other paratypes.
- Phorocera regilla* Reinhard, 1959:158. Holotype, 14 male and 2 female paratypes; Redwood City, San Mateo County, California, USA, 27 July 1952 (PHA).
- Phorocera ustulata* Reinhard, 1959:159. Holotype male, allotype female, 43 male and 1 female paratypes, Redwood City, San Mateo County, California, USA, 8 Feb. 1953; 6 female paratypes, Kings Mountain Road, Woodside, San Mateo County, California, 17 Apr. 1956; 198 male and 86 female paratypes, Stanford University, Santa Clara County, California, Feb.-Apr. 1952-1958 (PHA)
- Ptilodexia californica* Wilder, 1979:29. Holotype, male, 2 miles [3.2 km] S of Luther Pass, Alpine County, California, USA, 6 Jul. 1959 (PHA), at flower *Achillea Millefolium* L. CAS Type 12571.
- Ptilodexia pacifica* Wilder, 1979:31. Holotype, male, allotype, female, and 3 male and 11 female paratypes, Point Pinos, Pacific Grove, Monterey County, California, USA, 13 Jun. 1959 (PHA); *ibid*, 35 male and 1 female, paratypes, 24 May 1952, and *ibid* 25 male and 5 females. CAS Type 12572.
- Siphona macronyx* O'Hara, 1982:313. Paratype, female, falls outside Olympic National Park entrance, 15 km NW of Quinalt, Jefferson County, Washington, USA, xxxx 19XX (PHA).

Siphona multifaria O'Hara, 1982:293. Paratype, male, Southwestern Research Station, 8 km W Portal, 23 Sep. 1966 (PHA). One of large series of paratypes.

Siphona pisinnia O'Hara, 1982:298. Paratypes 3 females, Southwestern Research Station, 8 km W. Portal, 1650 m, Cochise County, Arizona, and paratypes 1 male and 11 females, *ibid*, 11, 19, 22, 24 Sep. 1966 (PHA).

Tephritidae:

Euaestoides arnaudi Foote, 1958:291.

Paroxyna farinata Novak, 1974. Paratype, female, Hat Lake, Lassen National Park, Lassen County, California, 23 Jul. 1950 (PHA) in CDA. Many other paratypes.

Paroxyna californica Novak, 1974. Paratype, female, Echo Lake, Eldorado County, California, 20 Jun. 1958 (PHA) in CDA. (Type series: Holotype and 6 other paratypes).

Thaumaleidae:

Thaumalea buckae Arnaud & Boussy, 1994:

Thaumalea coloradensis Arnaud & Boussy, 1994:

Tipulidae:

Tipula (Beringotipula) charpalex Byers & Arnaud, 2001. Holotype and xxxxx.

Order Hymenoptera:

Apoidea:

Perdita autumnalis Timberlake, 1977:281. Holotype, female, and 3 paratypes, 2.4 km (1.5 miles) SW of Wildrose Station, Death Valley National Monument, Inyo County, California, on *Chrysothamnus paniculatus*, 6 Nov. 1968 (PHA). 12 paratype females, Water Canyon, Panamint Valley, Inyo County, California, 701 m (2,300 feet), on same flower, 7 Nov. 1968. CAS Type XXXXX.

Perdita bifasciata Timberlake, 1977:293. Holotype, male, and Paratype, male, Southwestern Research Station, 1,646 m (5,400 feet), 8 km (5 miles) W of Portal, Cochise County, Arizona, USA, 11 Sep. 1965 (PHA). CAS Type XXXX.

Perdita diminutiva Timberlake, 1977:291. Holotype, male, Agua Caliente (San Carlos), 18.5 km (11.5 miles) E of Maneadero, Baja California, Mexico, 6 Jul. 1973 (PHA). CAS Type XXXXX.

Perdita duplicans Timberlake, xxxx:xxx. Bahia Agua Verde, Baja California, 26 Mar. 1953. CAS Type

Perdita esmeraldensis Timberlake, 1977:286. Holotype, female, Lida, at summit, 2255 m (7,400 feet), Esmeralda County, Nevada, 15 Jul. 1966 (PHA). CAS Type XXXXX.

Perdita pauliana Timberlake, 1977:289. Holotype, male, Lida, at summit, Esmeralda County, Nevada, 2,255 m (7,400 feet), 15 Jul. 1966 (PHA). CAS Type XXXXX.

Perdita pachygnatha Timberlake, 1977:282. Holotype, female, 2.4 km (1.5 miles) SW of Wildrose Station, Death Valley National Monument, Inyo County, California, 953 m (3,100 feet), at flower of *Chrysothamnus paniculatus*, 6 Nov. 1968, (PHA). CAS Type XXXXX.

Ichneumonidae:

Exetastes crassivena Townes & Townes, 1978:418. Holotype, male, Jasper Ridge, San Mateo County, California, 23 Nov. 1953 (PHA). In Gerd Heinrich collection. Three female paratypes from other localities and collectors.

Sphecidae:

Pemphredon fisheri Dollfuss, 1993:699. Holotype, male, McBride Springs, 1524 m, Siskiyou County, California, 8 Aug. 1967 (PHA) in CAS. Two other paratypes collected by Townes in AEIC.

Tachysphex bohartorum Pulawski, 1982:30. Paratype, female, Echo Portal, Eldorado County, California, date ?? (PHA) in CAS.

Tachysphex lamellatus Pulawski, 1982:32. Holotype, female, and 9 females and 17 males paratopotypes, Alamos, Sonora, Mexico, 25 February 1963 (PHA), CAS type 13465.

Tachysphex verticalis Pulawski, 1982:36. Paratype, male, Pinyon Flat, Riverside, California, date ?? (PHA) (CAS).

Tachysphex yolo Pulawski, 1982:37. Paratypes, one male, one female, Halstead Campground (E. Branch N. Fork Feather River), date ?? (PHA) (CAS).

Tachysphex yuma Pulawski, 1982:39. Paratype, one female, Bahía San Carlos, Sonora, Mexico, date ?? (PHA) (CAS).

Order Lepidoptera:

Eriocraniidae:

Eriocraniella (Eriocraniella) xanthocara Davis, 1978:76. Paratypes: One female, Golden Gate Park, San Francisco, California, 28 March 1961 (PHA) on leaf of *Quercus agrifolia* (UCB); four females, Junipero Serra Park, [San Bruno], California, 29 March 1964, 4 April 1964 (PHA) on foliage of *Quercus agrifolia* (CAS), and one female same locality, 29 March 1964 (PHA) (in USNM, slide 18197); one female, San Francisco, Lake Merced, 9 April 1964 (PHA) (CAS).

Geometridae:

Pterosoda kinoi Rindge, 1969:26. Holotype, male, Bahia San Carlos, Sonora, Mexico, 18 February 1963 (PHA) (AMNH). Allotype, female, same but 19 February 1963. Paratype, three males, same data, 17, 19 February 1963.

Tortricidae:

Decodes australis Powell, 1965:70. Holotype, female, Ridge NW of Jocoque Dam, Aguascalientes, Mexico, 19 Aug. 1960 (PHA, ESR, DCR). CAS, Type No. xxx.

Order Trichoptera:

Rhyacophilidae:

Rhyacophila reana Denning, 1971:1555, In Denning & Schmid, 1971. Holotype, and paratype male, Tahquist Canyon, Agua Caliente Indian Reservation, Riverside County, California, 22 Feb. 1970. CAS Type No. 12057.

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