

Last updated: 26 April 2025

APHILANTHOPS

Aphilanthops Patton, 1881:401. Type species: *Philanthus frigidus* F. Smith, 1856, by original designation.

Revision: Dunning, 1898a; R. Bohart and Grissell, 1975 (California).

Key: R. Bohart and Grissell, 1975 (North America).

Nest: Barth, 1910:119.

1. *foxi* Dunning

Aphilanthops foxi Dunning, 1898a:21, ♂. Lectotype: ♂, USA: California: San Diego County: no specific locality (ANSP), designated by Cresson, 1928:49. – Ashmead, 1899d:296 (in checklist of North American Crabronidae, as *Foxii* Ashmead); Burks in Muesebeck, Krombein, and Townes, 1951:1003 (in catalog of North American Hymenoptera); R. Bohart, 1966b:159 (in revision of *Aphilanthops*); R. Bohart and Grissell, 1975:20 (in revision of Philanthinae of California); R. Bohart and Menke, 1976:570 (in checklist of world Sphecidae); Krombein, 1979b:1727 (in catalog of North American Hymenoptera); Alexander, 1992a:94-98 (in cladistic analysis of Philanthinae).

2. *frigidus* (F. Smith)

Philanthus frigidus F. Smith, 1856:475, ♂. Lectotype: ♂, Canada: Nova Scotia: no specific locality (BMNH), designated by R. Bohart, 1966b:160 (Article 74b). – Cresson, 1862:236 (in catalog of North American Hymenoptera), 1965c:87 (in revision of North American Philanthinae, description of ♀); Packard, 1866:54 (in key to North American *Philanthus*), 55 (bibliographic reference and geographic distribution); Provancher, 1883b:642 (in revision of Canadian Hymenoptera); Cresson, 1887:281 (in catalog of North American Hymenoptera); Kohl, 1891:367 (in checklist of *Philanthus*); Dalla Torre, 1897:486 (in catalog of world Hymenoptera); H. Smith, 1908b:360 (in revision of Nebraskan Sphecidae). – **As *Aphilanthops frigidus***: Patton, 1881:401 (type of *Aphilanthops*, new combination); Dunning, 1896a:205 (Connecticut), 1898a:20 (in revision of *Aphilanthops*); Ashmead, 1899d:296 (in checklist of North American Crabronidae); J. Smith, 1900:520 (in list of insects of New Jersey); Harrington, 1902:222 (Canada: Ontario: Ottawa); Viereck and Cockerell, 1904b:141 (in revision of *Aphilanthops* of New Mexico, as *frigidis*); G. Peckham and E. Peckham, 1905:167 (preying on ants); H. Smith, 1908:360 (Nebraska); J. Smith, 1910:679 (in new list of insects of New Jersey); Wheeler, 1913:374 (preying on alate ant queens, nesting); Broomley, 1914:194 (prey of asilid *Proctyacanthus philadelphicus* Macquart at Southbridge, Massachusetts), 196 (prey of asilid *Promachus fitschii* Osten Sacken at Southbridge, Massachusetts); Rohwer, 1916b:672 (in catalog of Hymenoptera of Connecticut); Stevens, 1917:421 (North Dakota); Mickel, 1918b:391 (in catalog of Nebraskan Sphecidae); Britton, 1920:339 (in checklist of insects of Connecticut); Bequaert, 1922:284 (Wheeler's observations summarized); Rohwer in Viereck, 1925:672 (in key to Sphecidae of Connecticut; Hartford); J.Ch. Bradley, 1926:175 (New York: Lloyd-Cornell Reservation near McLean), 1928:1017 (in catalog of New York Sphecidae); Dreisbach, 1947:144 (Michigan: locality records); Strickland, 1947:128 (Canada: Alberta: Lethbridge, Medicine Hat); Burks in Muesebeck, Krombein, and Townes, 1951:1003 (in catalog of North American Hymenoptera); Ristich, 1956:272 (*Senotainia trilineata* (van der Wulp), a sarcophagid, is nest parasite, eggs are laid on prey carried by wasp); Evans, 1957:81 (description of larva), 1962b:240 (nesting habits), 1963a:145 (prey specialization); Kurczewski and Kurczewski, 1963:148 (Pennsylvania: Presque Isle State Park); R. Bohart, 1966b:160 (in revision of *Aphilanthops*); Krombein in Krombein and Burks, 1967:418 (references to Evans, 1957, 1962b); Evans, 1963a:145 (prey specialization); R. Bohart and Grissell, 1975:20 (in revision of Philanthinae of California); Evans, 1975a:262 (rapid colonizer of new habitats); R. Bohart and Menke, 1976:570 (in checklist of world Sphecidae); Krombein, 1979b:1727 (in catalog of North American Hymenoptera, nesting sites, list of parasites and prey); Finnamore, 1982:244 (in Sphecid Fauna of southern Quebec); Hilchie, 1982:106 (prey of *Philanthus albopilosus*), 107 (Alberta: Empress); Radović, 1985:66 (sting apparatus analyzed); Piek and Spanjer, 1986:180 (in list of Sphecidae with known prey); Steiner, 1986:112 (references to publications on nesting habits); Spofford, Kurczewski, and Downes, 1989:260 (nest parasite: *Senotainia vigilans* Allen, a miltogrammine fly), 256, 258, 260 (references to previous records).

for nest parasites *Metopia argyrocephala* (Meigen), *Senotainia trilineata* (Wulp), and *Sphenometopa tergata* (Coquillett), miltogrammine flies, and undetermined miltogrammini); Spofford and Kurczewski, 1990:748, 750, 751 (nest parasites: *Senotainia trilineata* (Van der Wulp), *Senotainia vigilans* Allen, and unknown species of Miltogrammini, Sarcophagidae); Alexander, 1992a:94-98 (in cladistic analysis of Philanthinae); Spofford and Kurczewski, 1992:1000 (species of miltogrammine parasites listed), 1002 (counter-cleptoparasitic behavior: freeze-stop and face-off, diversionary flight), 1005 (post-larvipositional counter-cleptoparasitic behavior: abandon prey); Ahlstrom, 1995:113 (in checklist of insects of North Carolina); Kurczewski, 1998d:250 (pine barrens in upstate New York); Wcislo, 1998:181 (proportions of antennae in relations to parasitic/non-parasitic behavior); Weissmann and Kondratieff, 1999:78 (Colorado: Great Sand Dunes National Monument); Skevington et al., 2001:127 (Canada: Ontario: Lambdton County); Buck, 2004:27 (Canada: in checklist of Crabronidae of Ontario); Kaltenpoth et al., 2006:1405 (streptomyces bacteria absent in female antennal glands); Ratzlaff, 2016:28 (Canada: British Columbia: from R. Bohart and Grissell, 1975); Dollfuss, 2017b:1246 (Canada: locality records from Ottawa, and USA: Michigan and Nebraska); Buck and Bennett, 2025:220 (in checklist of Sphecidae *sensu lato* of Canada, Alaska, and Greenland: Canada: Alberta, British Columbia, Nova Scotia, Ontario, Prince, Edward Island, Quebec, Saskatchewan, first records from Manitoba and New Brunswick: no specific locality).

Aphilanthops bakeri Dunning, 1896a:203, ♂ (as *Bakeri*, incorrect original spelling). Lectotype: ♂, USA: Colorado: no specific locality (ANSP), designated by R. Bohart, 1966b:160. Synonymized with *Aphilanthops frigidus* by R. Bohart, 1966b:160. – Dunning, 1898a:22 (in revision of *Aphilanthops*); Ashmead, 1899d:296 (in checklist of North American Crabronidae); Viereck and Cockerell, 1904b:142 (in revision of *Aphilanthops* of New Mexico); Burks in Muesebeck, Krombein, and Townes, 1951:1002 (in catalog of North American Hymenoptera).

Nomada dawsoni Swenk, 1912:83, ♂. Holotype: ♂, USA: Nebraska: Sioux County: Harrison (Univ. Nebraska). Synonymized with *Aphilanthops frigidus* by Krombein in Muesebeck, Krombein, and Townes, 1951:1003.

As *Aphilanthops subfrigidus*: Skevington et al., 2001:127 (Canada: Ontario: Lambdton County), corrected to *Aphilanthops frigidus* by Buck, 2004:76.

3. *hispidus* W. Fox

Aphilanthops hispidus W. Fox, 1894c:106, ♂. Holotype: ♂, Mexico: Baja California Sur: San José del Cabo (CAS). – Ashmead, 1899d:296 (in checklist of North American Crabronidae); Burks in Muesebeck, Krombein, and Townes, 1951:1003 (in catalog of North American Hymenoptera); R. Bohart, 1966b:160 (in revision of *Aphilanthops*); R. Bohart and Grissell, 1975:21 (in revision of Philanthinae of California); R. Bohart and Menke, 1976:570 (in checklist of world Sphecidae); Evans, 1977b:123 (preying on bees in addition to ants); Krombein, 1979b:1727 (in catalog of North American Hymenoptera); Kingsley, Bailowitz, and Smith, 1987:18 (Arizona: Organ Pipe Cactus National Monument: Quitobaquito Springs area, as *hispidus*); Alexander, 1992a:94-98 (in cladistic analysis of Philanthinae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:667 (in checklist of Mexican Sphecidae); Alcock, 2009:167 (males patrolling nesting sites, females preying on bees of five families, but particularly *Apis mellifera*, and occasionally on unspecified small wasps). – As *Philanthus hispidus*: Dalla Torre, 1897:487 (new combination, in catalog of world Hymenoptera).

4. *subfrigidus* Dunning

Aphilanthops subfrigidus Dunning, 1898a:21, ♀, ♂. Lectotype: ♀, Nevada: no specific locality (ANSP), designated by Cresson, 1928:50. – Ashmead, 1899d:296 (in checklist of North American Crabronidae); Stevens, 1917:421 (North Dakota, Cresson given as author); Burks in Muesebeck, Krombein, and Townes, 1951:1003 (in catalog of North American Hymenoptera); R. Bohart, 1966b:161 (in revision of *Aphilanthops*); Krombein in Krombein and Burks, 1967:418 (prey: queen in *Formica fusca* species group); Evans, 1962b:245 (prey: queen of *Formica fusca* species group), 1970:495 (Wyoming: Jackson Hole, nesting behavior); Horning and Barr, 1970:106 (USA: Idaho: Craters of the Moon National Monument); R. Bohart and Grissell, 1975:22 (in revision of Philanthinae of California); R. Bohart and Menke, 1976:570 (in checklist of world Sphecidae); Krombein, 1979b:1727 (in catalog of North American Hymenoptera, nesting sites, list

of parasites and prey); G. Ferguson, 1984a:299 (as prey of *Philanthus zebratus*); Spofford, Kurczewski, and Downes, 1989:256, 258 (summary of previous records for nest parasites *Metopia argyrocephala* (Meigen) and *Senotainia trilineata* (Wulp), miltogrammine flies); O'Neill, 1990:19 (nesting behavior and male territoriality); Alexander, 1992a:94-98 (in cladistic analysis of Philanthinae); Blades and Maier, 1996:72 (Canada: British Columbia: Osoyoos - Mount Kobau area at 119°40'W 49°05'N); nec Skevington et al., 2001:127 (= *Aphilanthops frigidus*); Ratzlaff, 2016:28 (Canada: British Columbia: from Krombein, 1979); Vanoye-Eligio, Meléndez-Ramírez, Ayala-Barajas, Delfin-González, and Horta-Vega, 2019:7 (Mexico: Yucatán); Buck and Bennett, 2025:219 (in checklist of Sphecidae *sensu lato* of Canada, Alaska, and Greenland: Canada: British Columbia: no specific locality).

Aphilanthops elsiae Dunning, 1898a:23, ♀. Holotype: ♀, USA: California: no specific locality (ANSP). Synonymized with *Aphilanthops subfrigidus* by R. Bohart, 1966b:161. – Ashmead, 1899d:296 (in checklist of North American Crabronidae); Cresson, 1928:49 (holotype in ANSP); Burks in Muesebeck, Krombein, and Townes, 1951:1002 (in catalog of North American Hymenoptera).

sp.

Wiesenborn, Heydon, and Lorenzen, 2008:54 (Arizona: Topock Marsh).

NOMINA NUDA IN APHILANTHOPS

coquilleti Ashmead: Ashmead, 1899d:296 (in checklist of North American Crabronidae).

nevadensis Cresson: Ashmead, 1899d:296 (in checklist of North American Crabronidae).

SPECIES DESCRIBED IN APHILANTHOPS AND TRANSFERRED TO OTHER GENERA

bechteli R. Bohart = *Clypeadon*

californicus R. Bohart, 1959 = *Clypeadon*

concinnulus Cockerell = *Clypeadon*

dreisbachi R. Bohart, 1959 = *Clypeadon*

haigi R. Bohart, 159 = *Clypeadon*

marginipennis Cameron, 1890 = *Eucerceris canaliculata* (Say)

phoenix Pate, 1947 = *Clypeadon*

quadrinotatus Ashmead, 1890 = *Clypeadon*

sculleni R. Bohart, 159 = *Clypeadon*

taurulus Cockerell, 1895 = *Clypeadon*

utahensis Baker, 1895 = *Clypeadon*