

Last updated: 24 January 2025

BOTHYNOSTETHUS

Bothynostethus Kohl, 1884a:344. Type species: *Bothynostethus saussurei* Kohl, 1884, by monotypy.

1. *aberrans* Ducke

Bothynostethus aberrans Ducke, 1902:578, ♂. Syntypes: Brazil: Pará (depository unknown). – Ducke, 1902:579 (in key to *Bothynostethus*), 1904a:93 (description of ♀); W. Schulz, 1904c:781 (redescription); Menke, 1968d:98 (in checklist of species of Bothynostethini); R. Bohart and Menke, 1976:352 (in checklist of world Sphecidae); Nascimento and Overal, 1979:8 (in list of Hymenoptera described by Adolpho Ducke); Roig, 1988:14 (Ducke's specimens in Bern Museum); Dollfuss, 1989:8 (type material in NHMW); Amarante, 2002:23 (in catalog of Neotropical Crabronidae).

2. *clypearis* Ducke

Bothynostethus clypearis Ducke, 1904b:189, ♀, ♂. Syntypes: Brazil: Amazonas: Alemquer, Obidos (depository unknown). – Menke, 1968d:98 (in checklist of species of Bothynostethini); R. Bohart and Menke, 1976:352 (in checklist of world Sphecidae); Nascimento, 1979:13 (syntype in Mus. Goeldi, Belém); Nascimento and Overal, 1979:8 (in list of Hymenoptera described by Adolpho Ducke), 1980:4 (Brazil); Roig, 1988:14 (Ducke's specimens in Bern Museum); Dollfuss, 1989:8 (type material in NHMW); Obrecht and Huber, 1993:165 (non-type specimens received from Ducke in Bern Museum); Amarante, 2002:23 (in catalog of Neotropical Crabronidae).

3. *collaris* Ducke

Bothynostethus collaris Ducke, 1904a:94, ♀. Holotype or syntypes: ♀, Brazil: Pará: no specific locality (depository unknown). – Menke, 1968d:98 (in checklist of species of Bothynostethini); R. Bohart and Menke, 1976:352 (in checklist of world Sphecidae; Argentina, Brazil); Nascimento, 1979:13 (syntype in Mus. Goeldi, Belém); Nascimento and Overal, 1979:8 (in list of Hymenoptera described by Adolpho Ducke), 1980:4 (Brazil); Roig, 1988:14 (Ducke's specimens in Bern Museum); Obrecht and Huber, 1993:165 (non-type specimens received from Ducke in Bern Museum); Amarante, 2002:23 (in catalog of Neotropical Crabronidae).

4. *distinctus* W. Fox

Bothynostethus distinctus W. Fox, 1891a:31, ♀, ♂. Lectotype: ♀, USA: New Jersey: Camden County: no specific locality (ANSP), designated by Cresson, 1928:47. – W. Fox, 1894a:551 (in revision of North American Larrinae); Handlirsch, 1895:828 (original description translated into German); Dalla Torre, 1897:562 (in catalog of world Sphecidae); Ashmead, 1899d:251 (in checklist of North American Crabronidae); F. Williams, 1914a:179 (in revision of Larrinae of Kansas); Mickel, 1918b:432 (in catalog of Nebraskan Sphecidae); Brimley, 1938:443 (North Carolina: Aberdeen, Raleigh); Strickland, 1947:129 (Canada: Alberta: Edmonton); Krombein *in* Muesebeck et al., 1951:941 (in catalog of North American Hymenoptera); Gittins, 1960:135 (Idaho); Cazier and Mortensen, 1965d:30 (nesting habits); Kurczewski and Evans, 1972:88 (nesting, prey: Galerucinae beetles, description of larva); Menke, 1968d:98 (in checklist of species of Bothynostethini); R. Bohart and Menke, 1976:352 (in checklist of world Sphecidae); Spofford, Kurczewski, and Downes, 1989:260 (reference to publication on nest parasite *Senotainia* sp., a miltogrammine fly); Ahlstrom, 1995:110 (in checklist of insects of North Carolina); Weissmann and Kondratieff, 1999:78 (Colorado: Great Sand Dunes National Monument).

5. *dubius* Ducke

Bothynostethus dubius Ducke, 1902:577, ♂. Syntypes: Brazil: Pará: Pará and Jambú-Assú 113 km east of Pará (depository unknown). – Ducke, 1902:580 (in key to *Bothynostethus*), 1907b:91 (Brazil: Maranhão State: Codo), 1910:110 (Brazil: Ceará: Baturité); Menke, 1968d:98 (in checklist of species of Bothynostethini); R. Bohart and Menke, 1976:352 (in checklist of world Sphecidae); Nascimento and Overall, 1979:8 (in list of Hymenoptera described by Adolpho Ducke); Roig, 1988:14 (Ducke's specimens in Bern Museum); Dollfuss, 1989:8 (type material in NHMW); Obrecht and Huber, 1993:165 (non-type specimens received from Ducke in Bern Museum); Amarante, 2002:23 (in catalog of Neotropical Crabronidae).

6. *duckei* Menke

Bothynostethus duckei Menke, 1967c:140, ♀. Holotype: ♀, Paraguay: Villarrica (UCD). – Bohart and Menke, 1976:352 (in checklist of world Sphecidae); Amarante, 2002:23 (in catalog of Neotropical Crabronidae).

7. *kohlui* Ducke

Bothynostethus kohlui Ducke, 1902:575, ♀. Syntypes: Brazil: Pará (depository unknown). – Ducke, 1902:580 (in key to *Bothynostethus*), 1904a:93 (Brazil: Pará State; variation); Menke, 1968d:98 (in checklist of species of Bothynostethini); R. Bohart and Menke, 1976:352 (in checklist of world Sphecidae); Nascimento and Overall, 1979:8 (in list of Hymenoptera described by Adolpho Ducke), 1980:4 (Brazil); Amarante, 2002:23 (in catalog of Neotropical Crabronidae).

8. *nitens* Handlirsch

Bothynostethus nitens Handlirsch, 1887:pl. II, Fig. 18. Holotype: illustration of forewing (NHMW). – Dalla Torre, 1897:62 (in catalog of world Sphecidae); Ducke, 1902:580 (in key to *Bothynostethus*); Menke, 1968d:98 (in checklist of species of Bothynostethini); R. Bohart and Menke, 1976:352 (in checklist of world Sphecidae); Nascimento and Overall, 1980:4 (Brazil); Dollfuss, 1989:8 (type material in NHMW); Amarante, 2002:23 (in catalog of Neotropical Crabronidae).

Bothynostethus nitens Handlirsch, 1888a:227, ♀. Holotype: ♀, Brazil: Santa Catarina: Blumenau (NHMW). Objective synonym of *Bothynostethus nitens* Handlirsch, 1887.

9. *paraensis* (Spinola)

Pison paraense Spinola, 1851b:42, ♀ (as *paraensis*, incorrect original termination). Holotype: ♀, Brazil: Pará: Belém (Torino). – F. Smith, 1856:317 (in catalog of Hymenoptera in British Museum, as *paraensis*), 1869a:291 (in checklist of *Pison*); Kohl, 1885a:188 (in checklist of world *Pison*); Dalla Torre, 1897:712 (in catalog of world Sphecidae); R. Turner, 1916g:628 (bibliographic reference to original description, as *paraensis*); Casolari and Casolari Moreno, 1980:114 (specimens in M. Spinola collection, as *paraensis*). – **As *Bothynostethus paraensis*:** Menke, 1968d:98 (tentatively new generic assignment, in checklist of species of Bothynostethini); Menke in R. Bohart and Menke, 1976:352 (new combination, in checklist of world Sphecidae); Amarante, 2002:23 (in catalog of Neotropical Crabronidae).

Pison paraensis Spinola, 1853:58. Objective synonym of *Pison paraensis* Spinola, 1851.

10. *saussurei* Kohl

Bothynostethus saussurei Kohl, 1884a:346, ♀ (as *Saussurei*, incorrect original capitalization). Holotype or syntypes: ♀, Mexico: Huastec Region: no specific locality (NHMW). – Kohl, 1885:450 (in checklist of Larrinae); Handlirsch, 1888a:224 (in revision of world Bembicinae); Cameron, 1890a:70 (Mexico: Huastec Region); Dalla Torre, 1897:562 (in catalog of world Sphecidae); Ashmead, 1899d:251 (in checklist of North American Crabronidae); Ducke, 1902:580 (in key to *Bothynostethus*); Menke, 1968d:98 (in checklist of species of Bothynostethini); R. Bohart and Menke, 1976:352 (in checklist of world Sphecidae); Dollfuss, 1989:8 (type material in NHMW);

Amarante, 2002:23 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:663 (in checklist of Mexican Sphecidae).

sp.

W. Fox, 1897b:379 (Brazil: Santarém); Amarante, 1993:19 (northeastern Brazil); Cambra, 1993:16 (Peru: Pakitza, 11°57'S, 71°17'W); Hanson and Menke, 1995:640 (known from Costa Rica); Cambra and Santos, 2000:49 (first record of genus from Panamá: Parque Nacional Coiba in Isla de Coiba, Pacific Ocean); Starr and Hook, 2003:18 (in catalog of Aculeata of Trinidad, West Indies); Horta Vega, Pinson Domínguez, Barrientos Lozano, and Correa Sandoval, 2007: 45 (Mexico: Tamaulipas); Rasmussen and Asenjo, 2009:7 (in checklist of Crabronidae of Peru); Horta-Vega, Vanoye-Eligio, García-Gutiérrez, Coronado-Blanco, and Barrientos-Lozano, 2013:382 (Mexico: Tamaulipas: Ciudad Victoria: Cañón del Novillo); Silvestre, Demétrio, Trad, de Oliveira Lima, Auko, and de Souza, 2014:68 (Brazil: Mato Grosso do Sul: dry forests in Bodoquena Mountain Range and Brazilian Chaco); Trad and Silvestre, 2016:5 (Brazil: Mato Grosso do Sul).