

Last updated: 9 January 2025

HELIOCAUSUS

Heliocausus Kohl, 1892:210. Type species: *Arpactus larroides* Spinola, 1851, designated by Pate, 1937c:55.

Pseudolarra Reed, 1894:638. Type species: *Arpactus larroides* Spinola, 1851, designated by Pate, 1937c:55.

Revision: Fritz and Toro, 1976.

1. *fraternus* Brèthes

Heliocausus fraternus Brèthes: Jörgensen, 1912:291, nomen nudum (Argentina: Mendoza Province).

Heliocausus fraternus Brèthes, 1913:132, ♂. Holotype: ♂, Argentina: Mendoza: no specific locality (MACN). – Maidl and Klima, 1939:114 (in catalog of world Astatinae and Bembicinae); R. Bohart and Menke, 1976:453 (in checklist of world Sphecidae); Fritz and Toro, 1976:24 (in revision of Heliocausini; Argentina, Bolivia); Genise, 1990:26 (type material in MACN); Amarante, 2002:19 (in catalog of Neotropical Crabronidae).

2. *larroides* (Spinola)

Arpactus (?) *larroides* Spinola, 1851a:341, ♀. Holotype or syntypes: ♀, Chile: no specific locality (Torino). – Kohl, 1905:363 (possibly senior synonym of *Heliocausus fairmairei*). – **As *Harpactus larroides***: F. Smith, 1856:372 (new combination, in catalog of Hymenoptera in British Museum). – **As *Gorytes larroides***: Handlirsch, 1888:534 (new combination, original description translated into German). – **As *Pseudolarra larroides***: Reed, 1894:640 (new combination, discussion of identity). – **As *Heliocausus larroides***: Dalla Torre, 1897:557 (new combination, in catalog of world Sphecidae); Herbst, 1921c:115 (synonymy, nesting habits); Jaffuel and Piri6n, 1926:377 (Chile: valle de Marga Marga); Gazulla and Ruiz Pereira, 1929:300 (Chile: Hacienda de "Las Mercedes"); Maidl and Klima, 1939:115 (in catalog of world Astatinae and Bembicinae); P6rez D'Angello, Rojas A., and Gaultier A., 1971:111 (wing venation and cells); Evans, 1972a:166 (description of larva); R. Bohart and Menke, 1976:453 (in checklist of world Sphecidae); Fritz and Toro, 1976:20 (in revision of Heliocausini); Sielfeld, 1980b:74 (in checklist of Chilean Sphecidae); Weislo, 1998:181 (proportions of antennae in relations to parasitic/non-parasitic behavior); Amarante, 2002:19 (in catalog of Neotropical Crabronidae); Chiappa, 2012:9 (Chile: Regi6n de Valpara6so: no specific locality); Nemkov, 2012b:119 (review of known prey).

Heliocausus fairmairei Kohl, 1892:211, ♀ (as *Fairmairei*, incorrect original capitalization). Syntypes: ♀, Chile: no specific locality (NHMW). Synonymized with *Heliocausus larroides* by Herbst, 1921c:115. – Dalla Torre, 1897:557 (in catalog of world Sphecidae); Maidl and Klima, 1939:115 (in catalog of world Astatinae and Bembicinae); R. Bohart and Menke, 1976:453 (in checklist of world Sphecidae); Sielfeld, 1980b:74 (in checklist of Chilean Sphecidae); Dollfuss, 1989:10 (type material in NHMW).

Pseudolarra maculata Reed, 1894:639, ♀, ♂. Syntypes: Chile: no specific locality (depository?). Synonymized with *Heliocausus fairmairei* by Kohl, 1905:363 and with *Heliocausus larroides* by Herbst, 1921c:115. – **As *Heliocausus maculatus***: Kohl in Dalla Torre, 1897:557 (new combination, in catalog of world Sphecidae); Maidl and Klima, 1939:115 (in catalog of world Astatinae and Bembicinae).

Pseudolarra maculata var. *obscura* Reed, 1894:639, ♀. Syntypes: Chile: Valparaiso (depository?). Synonymized with *Heliocausus larroides* by Herbst, 1921c:115. – Amarante, 2005a:9 (correction to his 2002 catalog). – **As *Heliocausus maculatus* var. *obscura***: Maidl and Klima, 1939:114 (new combination, in catalog of world Astatinae and Bembicinae).

Heliocausus dubius Kohl, 1905b:362, ♀, ♂. Syntypes: Chile: Concepci6n (NHMW). Synonymized with *Heliocausus larroides* by Fritz and Toro, 1976:20. – Jaffuel and Piri6n, 1926:377 (Chile: valle de Marga-Marga); Jaffuel and

Piri6n, 1926:377 (Chile: valle de Marga Marga); Gazulla and Ruiz Pereira, 1929:300 (Chile: Hacienda de "Las Mercedes"); Maidl and Klima, 1939:115 (in catalog of world Astatinae and Bembicinae); R. Bohart and Menke, 1976:453 (in checklist of world Sphecidae); Nascimento and Overal, 1980:6 (Chile); Sielfeld, 1980b:74 (in checklist of Chilean Sphecidae); Chiappa, 2012:9 (Chile: Regi6n de Valpara6so: no specific locality).

3. *latitarsus* Fritz and Toro

Heliocausus latitarsus Fritz and Toro, 1976:26, ♂, ♀. Holotype: ♂, Argentina: C6rdoba (originally M. Fritz coll., now MACN). – Fritz, 1993:16 (holotype in M. Fritz coll.); Amarante, 2002:19 (in catalog of Neotropical Crabronidae).

SPECIES DESCRIBED IN *HELIOCAUSUS* AND TRANSFERRED TO OTHER GENERA

argentinus Br6thes, 1913 = *Tiguipa*

fiebrigi Br6thes, 1913 = *Tiguipa*

joergenseni Br6thes, 1913 = *Tiguipa*

mendozanus Br6thes, 1913 = *Tiguipa*

tridens Br6thes, 1913 = *Acanthocausus*