

Last updated: 7 January 2025

TRIGONOPSIS

Trigonopsis Perty, 1833:141. Type species: *Trigonopsis abdominalis* Perty, 1833 [= *Podium rufiventre* Fabricius, 1804], by monotypy.

Revision: Vardy, 1978.

1. *cameronii* (Kohl)

As *Trigonopsis violaceus*: Cameron, 1888a:26 (Guatemala, Panama), corrected to *Podium abdominale* Varietät *Cameroni* by Kohl, 1902:37.

Podium abdominale Varietät *cameronii* Kohl, 1902:37, sex not stated (as *Cameronii*, incorrect original capitalization).

Lectotype: ♀, Panama: Chiriquí: David (NHMW), designated by Menke in R. Bohart and Menke, 1976:98. – F. Williams, 1928:115 (nesting habits). – As *Trigonopsis abdominalis cameronii*: Rau, 1933:182 (new generic assignment, Panama: Island of Barro Colorado). – As *Trigonopsis cameronii*: Richards, 1937a:107 (new generic assignment, new status, Mexico, Guatemala); Eberhardt, 1972:1390 (social behavior), 1974:295 (nesting habits); R. Bohart and Menke, 1976:98 (in checklist of world Sphecidae); Piek and Spanjer, 1986:191 (in list of Sphecidae with known prey); Wcislo, 1987:519 (facultative parasitic behavior within otherwise free-living species); Hanson and Menke, 1995:637 (known from Central America); Ohl, 1996b:216 (used in study of phylogeny of Podiinae); Melo, 2000:104 (summary of social behavior); Amarante, 2002:70 (in catalog of Neotropical Sphecidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:670 (in checklist of Mexican Sphecidae); Dollfuss, 2016:1152 (French Guiana: Relais de Patawa 35 km south of Roura).

2. *cooperi* Vardy

Trigonopsis cooperi Vardy, 1978:150, ♀, ♂. Holotype: ♀, Ecuador: Napo: Tena (BMNH). Paratypes: Brazil, Peru. – Nascimento, 1979:13 (paratype in Mus. Goeldi, Bélem); Nascimento and Overal, 1980:12 (Brazil); Ohl, 1996b:216 (used in study of phylogeny of Podiinae); Amarante, 2002:70 (in catalog of Neotropical Sphecidae); Hook, 2006b:53 (first record from Trinidad: Caura Valley at 10.7°N 61.3°W); Rasmussen and Asenjo, 2009:16 (in checklist of Crabronidae of Peru).

3. *cyclocephala* F. Smith

Trigonopsis cyclocephala F. Smith, 1873b:54, ♂ (as *cyclocephalus*, incorrect original termination). Holotype or syntypes: ♂, Brazil: Amazonas: Ega, now Tefé (BMNH). – Kohl, 1902:34 (as synonym of *Podium affine*); Richards, 1937a:107 (Brazil, Bolivia); R. Bohart and Menke, 1976:98 (in checklist of world Sphecidae); Vardy, 1978:144 (in revision of *Trigonopsis*); Ohl, 1996b:216 (used in study of phylogeny of Podiinae, as *cyclocephalus*); Amarante, 2002:70 (in catalog of Neotropical Sphecidae). – As *Sceliphron cyclocephalum*: Dalla Torre, 1897:382 (new generic assignment, in catalog of world Hymenoptera).

4. *grylloctonus* Richards

Trigonopsis grylloctonus Richards, 1937a:110, ♂. Holotype: ♂, Guyana: Río Essequibo: Morabelli Creek (BMNH). – R. Bohart and Menke, 1976:98 (in checklist of world Sphecidae); Vardy, 1978:139 (in revision of *Trigonopsis*); Amarante, 2002:70 (in catalog of Neotropical Sphecidae).

5. *howesi* Vardy

Trigonopsis howesi Vardy, 1978:138, ♀, ♂. Holotype: ♀, Guyana: Kartabo near Bartica (BMNH). – Amarante, 2002:70 (in catalog of Neotropical Sphecidae).

6. *intermedia* de Saussure

Trigonopsis intermedius de Saussure, 1867:33, ♀ (spelled *intermedius* on p. 33, but *intermedius* on p. 34, in index on p. 138, and in caption of Fig. 18, incorrect original termination). Holotype or syntypes: ♀, Brazil: no specific locality (NHMW). – Kohl, 1902:34 (as *intermedius*, as synonym of *Podium affine*); Richards, 1937a:107 (Guyana, as *intermedia*); R. Bohart

and Menke, 1976:98 (in checklist of world Sphecidae, as *intermedia*); Vardy, 1978:143 (in revision of *Trigonopsis*, description of ♂); Nascimento and Overal, 1980:12 (Brazil, as *intermedia*); Dollfuss, 1989:13 (holotype in NHMW); Ohl, 1996b:216 (used in study of phylogeny of Podiinae); Amarante, 2002:70 (in catalog of Neotropical Sphecidae); Dollfuss, 2016:1152 (French Guiana: Relais de Patawa 35 km south of Roura). – **As *Sceliphron intermedium***: Dalla Torre, 1897:386 (new generic assignment, in catalog of world Hymenoptera). – **As *Podium intermedium***: W. Schulz, 1904c:770 (new generic assignment, as *Podium* affine *intermedium*, new status); Zavattari, 1908:1, 2 (valid species).

7. *menkei* Vardy

Trigonopsis menkei Vardy, 1978:133, ♀. Holotype: ♀, Ecuador: Napo: Río Jatún Yacu (MCZ). Paratypes: Peru: Iquitos. – Nascimento, 1979:14 (paratype in Mus. Goeldi, BÉlem); Nascimento and Overal, 1980:12 (Peru: Iquitos); Ohl, 1996b:216 (used in study of phylogeny of Podiinae); Amarante, 2002:70 (in catalog of Neotropical Sphecidae); Rasmussen and Asenjo, 2009:16 (in checklist of Crabronidae of Peru).

8. *mocoana* Vardy

Trigonopsis mocoana Vardy, 1978:149, ♀. Holotype: ♀, Colombia: Putumayo: Mocoa (BMNH). – Amarante, 2002:70 (in catalog of Neotropical Sphecidae).

9. *moraballi* Richards

Trigonopsis moraballi Richards, 1937a:107, 112, ♀. Holotype: ♀, Guyana: Río Essequibo: Moraballi Creek (BMNH). – R. Bohart and Menke, 1976:98 (in checklist of world Sphecidae); Vardy, 1978:145 (in revision of *Trigonopsis*); Piek and Spanjer, 1986:191 (in list of Sphecidae with known prey); Steiner, 1986:95 (references to papers on nesting habits); Amarante, 2002:70 (in catalog of Neotropical Sphecidae).

10. *neotropica* Vardy

Trigonopsis neotropica Vardy, 1978:147, ♀, ♂. Holotype: ♀, Peru: Huánuco: Tingo Maria (MCZ). Paratypes: Brazil. – Nascimento, 1979:14 (paratype in Mus. Goeldi, BÉlem); Nascimento and Overal, 1980:12 (Brazil); Dollfuss, 1989:13 (paratype in NHMW); Ohl, 1996b:216 (used in study of phylogeny of Podiinae); Amarante, 2002:70 (in catalog of Neotropical Sphecidae); Rasmussen and Asenjo, 2009:16 (in checklist of Crabronidae of Peru).

11. *richardsi* Vardy

Trigonopsis richardsi Vardy, 1978:140, ♀, ♂. Holotype: ♀, Peru: Loreto: Pucallpa (BMNH). Paratypes: Bolivia, Brazil, Colombia, Guyana, Venezuela. – Dollfuss, 1989:13 (paratype in NHMW); M. Cooper, 1994:14 (nest parasite: *Epistenia* sp., a pteromalid); Ohl, 1996b:216 (used in study of phylogeny of Podiinae); Amarante, 2002:70 (in catalog of Neotropical Sphecidae); Rasmussen and Asenjo, 2009:16 (in checklist of Crabronidae of Peru).

12. *rufiventris* (Fabricius)

Podium rufiventre Fabricius, 1804:184, ♀. Holotype: ♀, South America: no specific locality (ZMUC). – Dahlbom, 1845:434 (in key to *Podium*, as *rufipenne*); Kohl, 1902:6 (as tentative synonym of *Podium abdominale*), 95 (original description copied); W. Schulz, 1911b:161 (specimens in M. Spinola collection, Torino, are actually *Podium abdominale* var. *soror* and *P. intermedium*); Casolari and Casolari Moreno, 1980:110 (specimens in M. Spinola collection); Pagliano, 2008:538 (specimens in M. Spinola collection, Torino); Pagliano, 2008:538 (specimens in M. Spinola collection, Torino). – **As *Sceliphron rufiventre***: Dalla Torre, 1897:389 (new generic assignment, in catalog of world Hymenoptera); W. Fox, 1897b:373 (Brazil: Maruru and Santarém). – **As *Trigonopsis rufiventris***: F. Smith, 1856:226 (new generic assignment, in catalog of Hymenoptera in British Museum); de Saussure, 1867:34 (description of ♂, Brazil); van der Vecht, 1961a:44 (study of holotype); R. Bohart and Menke, 1976:98 (in checklist of world Sphecidae); Vardy, 1978:133 (in revision of *Trigonopsis*); Nascimento and Overal, 1980:12 (Brazil, Peru); Callan, 1990b:19 (in checklist of Trinidad Sphecidae); Cambra, 1993:16 (Peru: Pakitza at 11°57'S 71°17'W); Ohl, 1996b:216 (used in study of phylogeny of Podiinae); Amarante, 2002:70 (in catalog of Neotropical Sphecidae); Starr and Hook, 2003:22 (in catalog of Aculeata of Trinidad, West Indies); Buys, 2009e:279 (Brazil: Rio de Janeiro: Rio de Janeiro: Floresta de Tijuca); Rasmussen and Asenjo, 2009:16 (in checklist

of Crabronidae of Peru); Buys, 2011b:2 (Brazil: Rio de Janeiro: Grajaú); Rodrigues and Buys, 2013:214 (Brazil; Espírito Santo: from Amarante, 2002); Buys and Rodrigues, 2014:40 (Brazil: State of Espírito Santo: Linhares, São Mateus); Dollfuss, 2016:1153 (Ecuador: Napo: Puerto Teno 8 km south of Tena).

Trigonopsis abdominalis Perty, 1833:142, ♀. Syntypes: ♀, southern Brazil: no specific locality (ZSBS). Synonymized with *Trigonopsis rufiventris* by F. Smith, 1856:226, synonymy confirmed by van der Vecht, 1961a:44. – F. Williams, 1928:115 (Ecuador, nesting habits, as *abdominale*); Richards, 1937a:109 (Brazil, Guyana, nesting habits); Piek and Spanjer, 1986:191 (in list of Sphecidae with known prey); Steiner, 1986:95 (references to papers on nesting habits); Dollfuss, 1989:13 (paratype in NHMW); Diller, 1990:74 (type in ZSBS). – **As *Podium abdominale***: Kohl, 1902:36 (new generic assignment, in revision of *Podium*); W. Schulz, 1904c:770 (color variation); Ducke, 1907b:90 (Brazil: Maranhão State: Alcantara); Fernald, 1942:30 (Guyana: Kartabo). – **As *Sceliphron abdominale***: Dalla Torre, 1897:378 (new generic assignment, in catalog of world Hymenoptera); Arlé, 1933:205 (nesting habits).

Trigonopsis haemorrhoidalis F. Smith, 1856: 479 (explanation of figure 1). Unavailable name, inadvertently published in the synonymy of *Trigonopsis rufiventris* (Article 11.6).

Trigonopsis soror Mocsáry, 1883:23, ♀. Holotype or syntypes: ♀: Brazil: São Paulo (TMB). Synonymized with *Podium abdominale* by Kohl, 1902:36, resurrected to full species status by Menke in R. Bohart and Menke, 1976:98, and confirmed as synonym by Vardy, 1978:133. – **As *Sceliphron soror***: Dalla Torre, 1897:389 (new generic assignment, in catalog of world Hymenoptera).

Trigonopsis frivaldszkyi Mocsáry, 1883:23, ♀ (as *Fivaldszkyi*, incorrect original capitalization). Holotype: ♀, Brazil: Massanary (TMB). Synonymized with *Podium abdominale* by Kohl, 1902:36. – **As *Sceliphron frivaldszkyi***: Dalla Torre, 1897:385 (new generic assignment, in catalog of world Hymenoptera).

13. *schunkei* Vardy

Trigonopsis schunkei Vardy, 1978:142, ♀, ♂. Holotype: ♀, Peru: Loreto: Pucallpa (BMNH). Paratypes: Brazil, Colombia, Guyana. – Nascimento, 1979:14 (paratypes in Mus. Goeldi, BÉlem); Nascimento and Overall, 1980:12 (Brazil); Ohl, 1996b:216 (used in study of phylogeny of Podiinae); Amarante, 2002:70 (in catalog of Neotropical Sphecidae); Rasmussen and Asenjo, 2009:16 (in checklist of Crabronidae of Peru).

14. *succinea* Vardy

Trigonopsis succinea Vardy, 1978:149, ♀. Holotype: ♀, Ecuador: Napo: Tena (BMNH). Paratypes: Bolivia, Colombia. – Amarante, 2002:70 (in catalog of Neotropical Sphecidae); Rasmussen and Asenjo, 2009:16 (in checklist of Crabronidae of Peru).

15. *vicina* (Dalla Torre)

Trigonopsis affinis F. Smith, 1851a:31, ♀. Lectotype: ♀, Brazil: Pará: Belém (BMNH), designated by Vardy, 1978:141. – F. Smith, 1856:226 (in catalog of Hymenoptera in British Museum); F. Williams, 1928:115 (Ecuador, nesting habits); Richards, 1937a:107 (Guyana). – **As *Sceliphron affine***: Dalla Torre, 1897:392 (new generic assignment, in catalog of world Hymenoptera). – **As *Podium affine***: Kohl, 1902:33 (new generic assignment, in revision of *Podium*); W. Schulz, 1904c:769 (Brazil: Amazonas; variation); Cameron, 1912a:427 (Guyana); Zavattari, 1908:1, 2 (*intermedium* is not a synonym of *affinis*), 2 (redescription).

Sceliphron vicinum Dalla Torre, 1897:392. Substitute name for *Sceliphron affine* (F. Smith, 1851) Dalla Torre, 1897, junior secondary homonym of *Sceliphron affine* (Fabricius, 1793). – **As *Trigonopsis vicina***: R. Bohart and Menke, 1976:98 (new generic assignment, in checklist of world Sphecidae); Vardy, 1978:141 (in revision of *Trigonopsis*); Nascimento and Overall, 1980:12 (Brazil); Callan, 1990b:19 (in checklist of Trinidad Sphecidae); Ohl, 1996b:216 (used in study of phylogeny of Podiinae); Amarante, 2002:70 (in catalog of Neotropical Sphecidae); Starr and Hook, 2003:22 (in catalog of Aculeata of Trinidad, West Indies).

16. violascens (Dalla Torre)

Trigonopsis violacea F. Smith, 1851a:31, ♂ (as *violaceus*, incorrect original termination). Holotype: ♂, Brazil: Pará: Belém (BMNH). – F. Smith, 1856:226 (in catalog of Hymenoptera in British Museum); Ashmead, 1899d:355 (in checklist of North American Sphecidae, as *violaceus*); Richards, 1935d:212 (nest parasite: calliphorid fly *Pachyophthalmus floridensis antillarum* Richards), 1937a:109 (Brazil, Guyana); Cambra, 1993:16 (Peru: Pakitza at 11°57'S 71°17'W). – **As *Podium violaceum***: Kohl, 1902:39 (new generic assignment, in revision of *Podium*).

Sceliphron violascens Dalla Torre, 1897:393. Substitute name for *Sceliphron violaceum* (F. Smith, 1851) Dalla Torre, 1897, junior secondary homonym of *Sceliphron violaceum* (Fabricius, 1775), now in *Chalybion*. – R. Bohart and Menke, 1976:98 (in checklist of world Sphecidae); Vardy, 1978:131 (in revision of *Trigonopsis*); Nascimento and Overal, 1980:13 (Brazil); Fernández, 1994:6 (communal nesting); Ohl, 1996b:216 (used in study of phylogeny of Podiinae); Amarante, 2002:70 (in catalog of Neotropical Sphecidae); Starr and Hook, 2003:22 (in catalog of Aculeata of Trinidad, West Indies); Cambra, 2005:98 (Panamá); Rasmussen and Asenjo, 2009:16 (in checklist of Crabronidae of Peru); Rodrigues and Buys, 2013:214 (Brazil; Espírito Santo: Cariacica); Buys and Rodrigues, 2014:40 (Brazil: State of Espírito Santo: Cariacica, Consenição de Barra).

Podium resplendens Kohl, 1902:41, ♀. Holotype: ♀, Brazil: no specific locality (NHMW). Synonymized with *Trigonopsis violaceus* by Richards, 1937a:109. – **As *Trigonopsis resplendens***: R. Bohart and Menke, 1976:98 (new generic assignment, in checklist of world Sphecidae); Dollfuss, 1989:13 (holotype in NHMW).