

Last updated: 11 April, 2025

DIPLOPLECTRON

Diploplectron W. Fox, 1893a:38. Type species: *Liris brunneipes* Cresson, 1881, by monotypy.

Revision: F. Parker, 1972:1192 (North American species).

Review of biology: Kazenas, 2001b:139.

1. alexandri Kazenas

Diploplectron alexandri Kazenas, 1996b:936, ♂. Holotype: ♂, Kazakhstan: 60-80 km northeast of Irghiz (ZIN). – Kazenas, 2001:23 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:54 (geographic distribution, collecting localities in Kazakhstan).

Diploplectron alexandri Kazenas, 2000e:170. Objective synonym of *Diploplectron alexandri* Kazenas, 1996.

2. asiaticum Pulawski

Diploplectron asiaticum Pulawski, 1965a:221, ♂. Holotype: ♂, Turkmenistan: Ashgabat (ZIL). Paratypes: Kazakhstan: Kharkin 180 km north of Guryev, now Atyrau. – Tsuneki, 1971:451 (Mongolia: Bayankhongor Aymag: Ekhangol oasis); Kazenas, 1972b:158 (Kazakhstan); R. Bohart and Menke, 1976:211 (in checklist of world Sphecidae); Pulawski, 1978:232 (in key to Sphecidae of European part of USSR); Kazenas, 1996:938 (description of ♀, Kazakhstan), 2000e:181 (in Sphecidae Fauna of Kazakhstan); 2001:23 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:54 (geographic distribution, collecting localities in Kazakhstan); 2004d:29 (Kazakhstan: Ural River valley); Mokrousov, Shlyakhtenok, and Grebennikov, 2016:19 (first record from Russia: Astrakhan Oblast': Zelenyi Sad at 48.06°N 46.903°E; Israel: 10 km east of Nitzana in Negev Desert); Nemkov, 2017b:218 (in catalog of Astatinae of Russia); Bitsch and Schmidt in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:187 (in Sphecidae Fauna of Europe).

3. beccum F. Parker

Diploplectron beccum F. Parker, 1972:1195, ♀, ♂. Holotype: ♂, USA: California: Yolo County: Davis (UCD). Paratypes: California, Nevada, Arizona, Utah. – R. Bohart and Menke, 1976:211 (in checklist of world Sphecidae); Krombein, 1979b:1612 (in catalog of North American Hymenoptera).

4. brunneipes (Cresson)

Liris brunneipes Cresson, 1881:iii, ♀, ♂. Lectotype: ♀, USA: Colorado Territory: no specific locality (ANSP), designated by Cresson, 1916:95. – Cresson, 1887:276 (in catalog of North American Hymenoptera); Ashmead, 1890:33 (in checklist of Hymenoptera of Colorado). – **As *Diploplectron brunneipes***: W. Fox, 1893a:38 (new combination, type species of new genus *Diploplectron*), 1894a:535 (in revision of North American Larrinae); Dalla Torre, 1897:656 (in catalog of world Sphecidae, as *brunneipes*); Ashmead, 1899d:329 (in checklist of North American Crabronidae); Viereck, 1903b:733 (New Mexico); Maidl and Klima, 1939:28 (in catalog of world Astatinae and Bembicinae); Krombein in Muesebeck, Krombein, and Townes, 1951:938 (in catalog of North American Hymenoptera); F. Parker, 1972:1197 (in revision of North American *Diploplectron*; mountains of western North America); Evans, 1973c:149 (Wyoming: Jackson Hole), 1975b:123 (description of nest and larva); R. Bohart and Menke, 1976:211 (in checklist of world Sphecidae); Krombein, 1979b:1612 (in catalog of North American Hymenoptera); Ratzlaff, 2016:23 (Canada: first record from British Columbia: Taiga Plains), 30 (British Columbia: Peace River 4 km east of Halfway River); Buck and Bennett, 2025:207 (in checklist of Sphecidae *sensu lato* of Canada, Alaska, and Greenland: first record from Canada: Alberta, British Columbia: no specific locality).

Diploplectron bidentatum Ashmead, 1899b:56, ♂ (as *bidentatus*, incorrect original termination). Holotype: ♂, USA: Colorado: no specific locality (USNM). Synonymized with *Diploplectron brunneipes* by Krombein in Muesebeck,

Krombein, and Townes, 1951:938. – Ashmead, 1899d:329 (in checklist of North American Crabronidae, as *bidentatus*); Rohwer, 1917a:247 (California: Alameda County); Strickland, 1947:129 (Canada: Alberta: Lethbridge, Medicine Hat).

Diploplectron foxii Ashmead, 1899b:56, ♀. Holotype: ♀, USA: Colorado: no specific locality (USNM). Synonymized with *Diploplectron brunneipes* by Krombein in Muesebeck, Krombein, and Townes, 1951:938. – Ashmead, 1899d:329 (in checklist of North American Crabronidae); Maidl and Klima, 1939:28 (in catalog of world Astatinae and Bembicinae).

Diploplectron bidentatiforme Rohwer, 1909a:121, ♂ (as *bidentatiformis*, incorrect original termination). Holotype or syntypes: ♂, USA: Colorado: Boulder (USNM). Synonymized with *Diploplectron bidentatus* by Krombein, 1939:138 and with *Diploplectron brunneipes* by Krombein in Muesebeck, Krombein, and Townes, 1951:939 (in catalog of North American Hymenoptera). – Maidl and Klima, 1939:28 (in catalog of world Astatinae and Bembicinae).

5. *californicum* F. Parker

Diploplectron californicum F. Parker, 1972:1199, ♀, ♂. Holotype: ♂, USA: California: Yolo County: Davis (UCD). Paratypes: California, Idaho, Oregon. – R. Bohart and Menke, 1976:211 (in checklist of world Sphecidae); Krombein, 1979b:1613 (in catalog of North American Hymenoptera); Buck and Bennett, 2025:207 (in checklist of Sphecidae *sensu lato* of Canada, Alaska, and Greenland: first record from Canada: British Columbia: no specific locality).

6. *diablense* F. Williams

Diploplectron diablense F. Williams, 1951:363, ♂. Holotype: ♂, USA: California: Contra Costa County: Mount Diablo (CAS). – Krombein, 1958f:186 (in supplement to catalog of North American Hymenoptera); F. Williams, 1960a:303 (California: San Diego County; description of ♀); F. Parker, 1972:1202 (in revision of North American *Diploplectron*; Coast Ranges and Sierra Nevada in California); R. Bohart and Menke 1976:211 (in checklist of world Sphecidae); Krombein, 1979b:1613 (in catalog of North American Hymenoptera); Frommer, 1988:93 (California: Riverside County: Deep Canyon).

7. *ferrugineum* Ashmead

Diploplectron ferrugineum Ashmead, 1899b:56, ♀ (as *ferrugineus*, incorrect original termination). Holotype: ♀, USA: Colorado: no specific locality (USNM). – Ashmead, 1899d:329 (in checklist of North American Crabronidae, as *ferrugineus*); H. Smith, 1908b:337 (in revision of Nebraskan Sphecidae); Mickel, 1918b:426 (in catalog of Nebraskan Sphecidae); Maidl and Klima, 1939:28 (in catalog of world Astatinae and Bembicinae); Krombein in Muesebeck, Krombein, and Townes, 1951:939 (in catalog of North American Hymenoptera); F. Parker, 1972:1197 (in revision of North American *Diploplectron*; Idaho to Colorado, California to New Mexico); R. Bohart and Menke, 1976:211 (in checklist of world Sphecidae); Krombein, 1979b:1613 (in catalog of North American Hymenoptera); Ohl and Linde, 2003:149 (number of ovarioles); Buck and Bennett, 2025:207 (in checklist of Sphecidae *sensu lato* of Canada, Alaska, and Greenland: Canada: first record from Alberta, Saskatchewan: no specific locality).

Diploplectron ashmeadi Rohwer, 1909a:122, ♂. Holotype or syntypes: ♂, USA: Colorado: Garfield County: Rifle (USNM). Synonymized with *Diploplectron ferrugineum* by F. Parker, 1972:1197. – Krombein, 1939:138 (probably a synonym of *Diploplectron ferrugineus*); Maidl and Klima, 1939:28 (in catalog of world Astatinae and Bembicinae); Krombein in Muesebeck, Krombein, and Townes, 1951:938 (in catalog of North American Hymenoptera).

Diploplectron cressoni Rohwer, 1909a:123, ♀. Holotype or syntypes: ♀, USA: Colorado: Teller County: Boulder (USNM). Synonymized with *Diploplectron ferrugineum* by F. Parker, 1972:1197. – Maidl and Klima, 1939:28 (in catalog of world Astatinae and Bembicinae); Krombein in Muesebeck, Krombein, and Townes, 1951:939 (in catalog of North American Hymenoptera).

Diploplectron relativum Rohwer, 1909a:123, ♀ (as *relativus*, incorrect original termination). Holotype: ♀, USA: Colorado: Boulder (USNM). Synonymized with *Diploplectron cressoni* by Krombein, 1939:138 and with *Diploplectron ferrugineum* by F. Parker, 1972:1197. – Maidl and Klima, 1939:29 (in catalog of world Astatinae and Bembicinae).

8. *fossor* Rohwer

Diploplectron fossor Rohwer, 1909a:120, ♀. Holotype: ♀, USA: Colorado: Teller County: Florissant (USNM). – Krombein, 1939:138 (as new synonym of *Diploplectron foxii*); Maidl and Klima, 1939:28 (in catalog of world Astatinae and Bembicinae); Krombein in Muesebeck, Krombein, and Townes, 1951:938 (as new synonym of *Diploplectron brunneiceps*); F. Parker, 1972:1198 (in revision of North American *Diploplectron*; Northwest Territories of Canada to southern California, east to Colorado); Evans, 1973c:149 (Wyoming: Jackson Hole); R. Bohart and Menke, 1976:211 (in checklist of world Sphecidae); Krombein, 1979b:1613 (in catalog of North American Hymenoptera); Finnamore, 1997:887 (Canada: Yukon); Ratzlaff, 2016:23 (Canada: British Columbia, after F. Parker, 1972 and Krombein, 1979b); Buck and Bennett, 2025:207 (in checklist of Sphecidae *sensu lato* of Canada, Alaska, and Greenland: Canada: Alberta, British Columbia, Northwest Territories, Yukon Territory, first records from Manitoba and Saskatchewan: no specific locality).

Diploplectron rufoantennatum Rohwer, 1909a:120, ♂ (as *rufoantennatus*, incorrect original termination). Holotype or syntypes: ♂, USA: Colorado: Teller County: Florissant (USNM). Synonymized with *Diploplectron fossor* by F. Parker, 1972:1198. – Krombein, 1939:138 (as new synonym of *Diploplectron brunneipes*); Maidl and Klima, 1939:28 (in catalog of world Astatinae and Bembicinae); Krombein in Muesebeck, Krombein, and Townes, 1951:939 (in catalog of North American Hymenoptera).

9. *irwini* F. Parker

Diploplectron irwini F. Parker, 1972:1200, ♂. Holotype: ♂, USA: Arizona: Arizona Canal 30 mi east of Phoenix near Highway 87 (UCD). – R. Bohart and Menke, 1976:211 (in checklist of world Sphecidae); Krombein, 1979b:1613 (in catalog of North American Hymenoptera).

10. *kantsi* Pate

Diploplectron kantsi Pate, 1941a:6, ♂. Holotype: ♂, USA: Texas: El Paso County: foothills of Franklin Mountains north of El Paso (ANSP). – Krombein in Muesebeck, Krombein, and Townes, 1951:939 (in catalog of North American Hymenoptera); F. Parker, 1972:1201 (in revision of North American *Diploplectron*; southwestern USA, northern Mexico); R. Bohart and Menke, 1976:211 (in checklist of world Sphecidae); Krombein, 1979b:1613 (in catalog of North American Hymenoptera); H. Allen, 1995:15 (type in ANSP); Amarante, 2002:7 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:663 (in checklist of Mexican Sphecidae); Ruíz Cancino, Coronado Blanco, and Horta Vega, 2005:170 (Mexico: recorded from Tamaulipas State).

11. *kriegeri* Brauns

Diploplectron kriegeri Brauns, 1899:413, ♀, ♂ (as *Kriegeri*, incorrect original capitalization). Syntypes: South Africa: Eastern Cape Province: Algoa Bay near Port Elizabeth (TMP). – Arnold, 1923c:44 (in revision of southern African *Diploplectron*), 1930:8 (in checklist of Afrotropical Sphecidae); Maidl and Klima, 1939:28 (in catalog of world Astatinae and Bembicinae); R. Bohart and Menke, 1976:211 (in checklist of world Sphecidae).

12. *neotropicum* F. Parker

Diploplectron neotropicum F. Parker, 1972:1202, ♂, ♀. Holotype: ♂, Mexico: Chiapas: Nachic (Cornell Univ.). – R. Bohart and Menke, 1976:211 (in checklist of world Sphecidae); Amarante, 2002:7 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:663 (in checklist of Mexican Sphecidae).

13. orizabense F. Parker

Diploplectron orizabense F. Parker, 1972:1201, ♀. Holotype: ♀, Mexico: Veracruz: 10 mi. west of Orizaba (UCD). – R. Bohart and Menke, 1976:211 (in checklist of world Sphecidae); Amarante, 2002:7 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:663 (in checklist of Mexican Sphecidae).

14. plearcticum Pulawski

Diploplectron plearcticum Pulawski, 1958:473, ♀, ♂. Holotype: ♀, Egypt: Sinai: Wadi Mitla (originally A. Alfieri coll., now USNM, but Al Azhar University, Cairo, according to Roche, 2007a:53). – Pulawski, 1964:81 (Egypt: Ghiza, Kom Osheim, Saqqara; additional description); de Beaumont, Bytinski-Salz and Pulawski, 1973:3 (Israel); Roche and Zalat, 1994:114 (Egypt: Sinai Peninsula); Roche, 2007a:53 (in checklist of Egyptian Crabronidae, redescription), 2007b:3 (in checklist of Egyptian Ampulicidae, Sphecidae, and Crabronidae); Schmid-Egger, 2014:547 (first record from United Arab Emirates and Arabian Peninsula), 548 (color photographs of female), 549 (in key to *Dryudella* of Arabian Peninsula and adjacent territories); Gadallah, 2020b:22 (in list of aculeate wasps of Arabian Peninsula).

15. peglowi Krombein

Diploplectron peglowi Krombein, 1939:136, ♀, ♂. Holotype: ♂, USA: New York: Oswego County: Granby Center sand dunes (ANSP). – Krombein in Muesebeck, Krombein, and Townes, 1951:939 (in catalog of North American Hymenoptera); Kurczewski, 1972b:385 (nesting behavior, prey); F. Parker, 1972:1198 (in revision of North American *Diploplectron*; Canada to Mexico); Evans, 1973c:149 (Wyoming: Jackson Hole); Steiner, 1973:22 (Canada: Northwest Territories); Kurczewski, 1975:97 (nesting behavior); R. Bohart and Menke, 1976:211 (in checklist of world Sphecidae); Krombein, 1979b:1613 (in catalog of North American Hymenoptera); O'Brien, 1984:119 (Michigan); Radović, 1985:64 (sting apparatus analyzed); Rust, Menke, and Miller, 1985:46 (California: Channel Islands); Piek and Spanjer, 1986:184 (in list of Sphecidae with known prey); Steiner, 1986:100 (references to papers on nesting habits); Spofford, Kurczewski, and Downes, 1989:261 (reference to publication on nest parasites: undetermined *Miltogrammini*); Blades and Maier, 1996:72 (Canada: British Columbia: Osoyoos - Mount Kobau area at 119°40'W 49°05'N); Finnamore, 1997:887 (Canada: Yukon); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:663 (in checklist of Mexican Sphecidae); Buck, 2004:25 (in checklist of Crabronidae of Ontario, Canada), 29 (distribution within Ontario), 43 (first records from Ontario and Saskatchewan: list of localities); Ratzlaff, 2016:23 (Canada: British Columbia, after F. Parker, 1972 and Blades and Maier, 1992); Buck and Bennett, 2025:207 (in checklist of Sphecidae *sensu lato* of Canada, Alaska, and Greenland: Canada: British Columbia, Northwest Territories, Ontario, Saskatchewan, Yukon Territory, first record from Alberta: no specific locality).

16. pulawskii Kazenas

Diploplectron pulawskii Kazenas, 1975a:129, ♂. Holotype: ♂, Kazakhstan: Kapchagay (V.L. Kazenas coll. or ZIN). – R. Bohart and Menke, 1976:629 (in checklist of world Sphecidae); Kazenas, 2000e:183 (in Sphecid Fauna of Kazakhstan), 2001:23 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:54 (geographic distribution, collecting localities in Kazakhstan), 2008a:100 (southeastern Kazakhstan: near Kapchagay, 20 km southeast of Chingildy, 9 km southwest of Zharkent); Mokrousov, Shlyakhtenok, and Grebennikov, 2016:19 (first record from Russia: Kalmykia: 2 km east of Evdik at 47.34°N 45.24°E); Nemkov, 2017b:218 (in catalog of Astatinae of Russia); Bitsch and Schmidt in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:x (in Sphecid Fauna of Europe) Bitsch and Schmidt in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:187 (in Sphecid Fauna of Europe).

17. reticulatum F. Williams

Diploplectron reticulatum F. Williams, 1946, ♂. Holotype: ♂, USA: Arizona: Tucson (CAS). – Krombein in Muesebeck, Krombein, and Townes, 1951:939 (in catalog of North American Hymenoptera, as *reticulatus*); Krombein, 1958f:186 (in supplement to catalog of North American Hymenoptera); F. Parker, 1972:1202 (in revision of North

American *Diploplectron*; California and Arizona); R. Bohart and Menke, 1976:211 (in checklist of world Sphecidae); Krombein, 1979b:1613 (in catalog of North American Hymenoptera); S. Frommer, 1988:93 (California: Riverside County: Deep Canyon).

18. *secoense* F. Parker

Diploplectron secoense F. Parker, 1972:1201, ♀, ♂. Holotype: ♂, USA: California: Monterey County: Arroyo Seco Camp (UCD). Paratypes: California: Coast Ranges and Sierra Nevada. – R. Bohart and Menke, 1976:211 (in checklist of world Sphecidae); Krombein, 1979b:1613 (in catalog of North American Hymenoptera).

19. *sierrense* F. Parker

Diploplectron sierrense F. Parker, 1972:1199, ♀, ♂. Holotype: ♂, USA: California: Sierra County: Sierraville (UCD). Paratypes: Sierra Nevada in California and Nevada. – R. Bohart and Menke, 1976:211 (in checklist of world Sphecidae); Krombein, 1979b:1613 (in catalog of North American Hymenoptera).

20. *vierecki* Pate

Diploplectron vierecki Pate, 1941a:4, ♂. Holotype: ♂, USA: Texas: El Paso County: foothills of Franklin Mountains north of El Paso (ANSP). – Krombein *in* Muesebeck, Krombein, and Townes, 1951:939 (in catalog of North American Hymenoptera); F. Parker, 1972:1200 (in revision of North American *Diploplectron*; Arizona, New Mexico, Texas); R. Bohart and Menke, 1976:211 (in checklist of world Sphecidae); Krombein, 1979b:1613 (in catalog of North American Hymenoptera); H. Allen, 1995:15 (type in ANSP).

sp.

Finnamore, 1997:887 (Canada: Yukon); Ghazi-Soltani, Ebrahimi, Iranipour, and Pour Abad, 2010:799 (Iran: East Azerbaijan: Tabriz: Khalatpoushan); Jahantigh, Rakhshani, Mokhtari, and Ramroodi, 2017:31 (Iran: East Azerbaijan).

SPECIES DESCRIBED IN *DIPLOPLECTRON* AND TRANSFERRED TO *DRYUDELA*

africanum Arnold, 1923 = *Dryudella*

florissantense Rohwer, 1909 = *Dryudella*