

9 May 2025

AMMOPLANELLUS

Ammoplanellus Gussakovskij, 1931b:442 (as subgenus of *Ammoplanus*). Type species: *Ammoplanus chorasmius* Gussakovskij, 1931, by original designation and monotypy. Raised to genus status by R. Bohart in Bohart and Menke (1976:42), treated as subgenus of *Ammoplanus* by Marshakov (1976a, 1979) and Bouček (2001), restored to genus by N. Smith, 2009.

Pseudammoplanellus N. Smith, 2019: Type species: *Ammoplanellus owensensis*, by original designation and monotypy (as subgenus of *Ammoplanellus*).

Revision: N. Smith, 2019:66 (North American species).

Key: Tessy, Girish Kumar, Sureshan, and Hegde, 2024:74 (Oriental species).

1. *aussi* (Leclercq)

Ammoplanus aussi Leclercq, 1959a:29, ♀. Holotype: ♀, Namibia: Aus (BMNH). – Leclercq, 1959a:26 (in key to Afrotropical *Ammoplanus*); Bouček, 2001:924 (in list of Afrotropical *Ammoplanus*). – **As *Ammoplanellus aussi***: R. Bohart and Menke, 1976:199 (new combination, in checklist of world Sphecidae).

2. *bezicus* (Leclercq)

Ammoplanus bezicus Leclercq, 1959a:29, ♀, ♂. Holotype: ♀, Namibia: Aus (BMNH). – Leclercq, 1959a:26 (in key to Afrotropical *Ammoplanus*); Bouček, 2001:924 (in list of Afrotropical *Ammoplanus*). – **As *Ammoplanellus bezicus***: R. Bohart and Menke, 1976:199 (new combination, in checklist of world Sphecidae).

3. *brevicornis* (Arnold)

Ammoplanus brevicornis Arnold, 1945:146, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – Arnold, 1945:144 (in key to *Ammoplanus* of Madagascar); Leclercq, 1959a:25 (in key to Afrotropical *Ammoplanus*); R. Bohart and Menke, 1976:198 (in checklist of world Sphecidae); Bouček, 2001:924 (in list of Afrotropical *Ammoplanus*); Pulawski, 2003b:798 (in checklist of Malagasy Sphecidae). – **As *Ammoplanellus brevicornis***: Madl, 2014a:992 (new combination, in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records).

4. *chorasmius* (Gussakovskij)

Ammoplanus chorasmius Gussakovskij, 1931b:443, ♀. Lectotype: ♀, Uzbekistan: Khiva (ZIN), designated by Marshakov, 1976a:681. – Giner Mari, 1943c:294 (placed in subgenus *Ammoplanellus*, as *chorasmius*); Gussakovskij, 1952:220 (Tajikistan; description of ♂); Marshakov, 1976a:678 (in key to Palearctic *Ammoplanus*), 681 (geographic distribution); Kazenas, 1978b:159 (in key to Sphecidae of Kazakhstan and Central Asia); Marshakov, 1979b:372 (Mongolia, redescription); Bouček, 2001:917 (in revision of Palearctic *Ammoplanus*). – **As *Ammoplanellus chorasmius***: R. Bohart and Menke, 1976:199 (new combination, in checklist of world Sphecidae); Kazenas, 2001:23 (in checklist of Sphecidae of Kazakhstan and Central Asia); Mokrousov, Shlyakhtenok, and Grebennikov, 2016:28 (first record from Russia: Astrakhan' Oblast': village Volzhski at 46.965°N 47.53°E); Mokrousov, 2017d:59 (South-East of European Russia: no specific locality), 2017e:246 (in catalog of Pemphredoninae of Russia); Medetov, Embergenov, Kholmatov, Elmurodova, Rakhimov, and Tajibaeva, 2024:420 (Uzbekistan: distribution).

5. *claripennis* (Arnold)

Ammoplanus claripennis Arnold, 1945:147, ♀. Syntypes: ♀, Madagascar: Bekily (MNHN). – Arnold, 1945:144 (in key to *Ammoplanus* of Madagascar); Leclercq, 1959a:25 (in key to Afrotropical *Ammoplanus*); Bouček, 2001:924 (in list of Afrotropical *Ammoplanus*); Pulawski, 2003b:798 (in checklist of Malagasy Sphecidae). – **As *Ammoplanellus claripennis***: R. Bohart and Menke, 1976:198 (new combination, in checklist of world Sphecidae); Madl, 2014a:992 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records).

6. *egregius* (Arnold)

Ammoplanus egregius Arnold, 1945:148, ♂. Holotype: ♂, Madagascar: Bekily (MNHN). – Arnold, 1945:144 (in key to *Ammoplanus* of Madagascar); Leclercq, 1959a:25 (in key to Afrotropical *Ammoplanus*); R. Bohart and Menke, 1976:198 (in checklist of world Sphecidae); Bouček, 2001:924 (in list of Afrotropical *Ammoplanus*); Pulawski, 2003b:798 (in checklist of Malagasy Sphecidae). – **As *Ammoplanellus egregius***: Madl, 2014a:954 (new combination, in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records).

7. *hissaricus* (Gussakovskij)

Ammoplanus hissaricus Gussakovskij, 1952:221, ♂. Holotype: ♂, Tajikistan: Kondara Canyon 35 km north of Dushanbe (ZIN). – R. Bohart and Menke, 1976:198 (in checklist of world Sphecidae); Marshakov, 1976a:677 (in key to Palearctic *Ammoplanus*), 681 (geographic distribution); Kazenas, 1978b:159 (in key to Sphecidae of Kazakhstan and Central Asia); Bouček, 2001:918 (in revision of Palearctic *Ammoplanus*). – **As *Ammoplanellus hissaricus***: Kazenas, 2001:23 (new combination, in checklist of Sphecidae of Kazakhstan and Central Asia).

8. *jucundus* (Arnold)

Ammoplanus jucundus Arnold, 1945:145, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – Arnold, 1945:144 (in key to *Ammoplanus* of Madagascar); Leclercq, 1959a:25 (in key to Afrotropical *Ammoplanus*); R. Bohart and Menke, 1976:198 (in checklist of world Sphecidae); Leclercq, 1990b:120 (Madagascar); Bouček, 2001:924 (in list of Afrotropical *Ammoplanus*); Pulawski, 2003b:798 (in checklist of Malagasy Sphecidae). – **As *Ammoplanellus jucundus***: Madl, 2014a:992 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records).

9. *keralensis* Tessa, Girish Kumar, and Sureshan

Ammoplanellus keralensis Tessa, Girish Kumar, and Sureshan in Tessa, Girish Kumar, Sureshan, and Hegde, 2024:75, ♀. Holotype: ♀, India: Kerala: Kannur District: Kannapuram at 11°58'8.76"N 75°19'14.88"E (Zoological Survey of India Kozhikode, Kerala, India). – Tessa, Girish Kumar, Sureshan, and Hegde, 2024:74 (in key to Oriental *Ammoplanellus*).

10. *latiscapus* (Leclercq)

Ammoplanus latiscapus Leclercq, 1959a:28, ♂. Holotype: ♂, South Africa: Eastern Cape Province: Somerset East (BMNH). – Leclercq, 1959a:25 (in key to Afrotropical *Ammoplanus*); R. Bohart and Menke, 1976:198 (in checklist of world Sphecidae); Bouček, 2001:925 (in list of Afrotropical *Ammoplanus*).

Ammoplanus cradockensis Arnold, 1959:332, ♀, ♂. Holotype: ♂, South Africa: Eastern Cape Province: Cradock (BMNH). Synonymized with *Ammoplanus latiscapus* by Bouček, 2001:925. – R. Bohart and Menke, 1976:198 (in checklist of world Sphecidae).

11. *leucofrons* N. Smith

Ammoplanellus leucofrons N. Smith, 2019:71, ♂. Holotype: ♂, USA: California: Riverside County: Menifee Valley at 33°39'N 117°13'W (University of California Riverside). – N. Smith, 2019:70 (in key to North American *Ammoplanellus*).

12. *maculifrons* N. Smith

Ammoplanellus maculifrons N. Smith, 2019:72, ♀. Holotype: ♀, USA: California: San Diego County: Laguna Mountains at 32°53.8'N 116°26.8'W (Utah State University). – N. Smith, 2019:70 (in key to North American *Ammoplanellus*).

13. *madecassus* (Kohl)

Ammoplanus madecassus Kohl, 1909:374, ♀. Holotype: ♀, Madagascar: Toliara (ZMHU or SIF) – Arnold, 1945:144 (in key to *Ammoplanus* of Madagascar); Pate, 1937b:104 (placed in subgenus *Ammoplanellus*); Leclercq, 1959a:26 (in key to Afrotropical *Ammoplanus*); Bouček, 2001:925 (in list of Afrotropical *Ammoplanus*); Pulawski, 2003b:798 (in checklist of Malagasy Sphecidae). – **As *Ammoplanellus madecassus***: R. Bohart and Menke, 1976:198 (new combination, in checklist of world Sphecidae); Madl, 2014a:993 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records).

14. montanus N. Smith

Ammoplanellus montanus N. Smith, 2019:72, ♀. Holotype: ♀, USA: California: Fresno County: Courtright Lake at 32°53.8'N 116°26.8'W (UCD). – N. Smith, 2019:71 (in key to North American *Ammoplanellus*).

15. nanus (Bouček and Gayubo)

Ammoplanus nanus Bouček and Gayubo, 2001:57, ♀, ♂. Holotype: ♂, Spain: Granada: La Herradura (BMNH). – Bouček, 2001:919 (in revision of Palearctic *Ammoplanus*); Bouček *in* Bitsch et al., 2001:148 (in Sphecidae Fauna of Western Europe); J. Fernández, 2002:121 (species description recorded); Dollfuss, 2004a:125 (Morocco: Tazzeka National Park: Bab-Bou-Idir); Bitsch, Dollfuss, Bouček, Schmidt, Schmid-Egger, Gayubo, Antropov, and Barbier, 2007:458 (first record from France: Vaucluse: Mont Ventoux and Saint-Pierre-de-Vassols; recognition characters given by Bouček, 2001 and by Bouček and Gayubo, 2001); Gayubo, González, Tormos, and Asís, 2008:139 (Spain: Salamanca: Parque Natural de Las Batuecas – Sierra de Francia); Baños-Picón, Asís, Gayubo, and Tormos, 2009:310 (Spain: frequency of specimens collected with hand nets and Malaise traps); González, Gayubo, Asís, and Tormos, 2009:623 (Spain: Salamanca and Zamora provinces: Arribes del Duero Natural Park); Cross, Baldock, and Wood, 2021:58 (in catalog of Sphecidae *sensu lato* of Portugal); Bouček, Fernández Gayubo, and Bitsch *in* Bitsch, Antropov, Bouček, Dollfuss, Fernández Gayubo, and K. Schmidt, 2022:44 (in revision of Sphecidae *sensu lato* of Europe).

16. nasalus N. Smith

Ammoplanellus nasalus N. Smith, 2019:73, ♂. Holotype: ♂, USA: Utah: Emery County: Flat Top Pass at 38°32.30'N 110°29.26'W (Utah State University). – N. Smith, 2019:70 (in key to North American *Ammoplanellus*).

17. orientalis (Arnold)

Ammoplanus madecassus var. *orientalis* Arnold, 1945:148, ♀. Holotype: ♀, Madagascar: Bekily (MNHN). – Arnold, 1945:144 (in key to *Ammoplanus* of Madagascar); Leclercq, 1959a:25 (in key to Afrotropical *Ammoplanus*). – **As *Ammoplanus orientalis***: Bouček, 2001:925 (new status, in list of Afrotropical *Ammoplanus*); Pulawski, 2003b:798 (in checklist of Malagasy Sphecidae). – **As *Ammoplanellus orientalis***: R. Bohart *in* Bohart and Menke, 1976:200 (new combination, new status, in checklist of world Sphecidae); Madl, 2014a:993 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records).

18. owensensis N. Smith

Ammoplanellus owensensis N. Smith, 2019:74, ♂ (in subgenus *Pseudammoplanellus*). Holotype: ♂, USA: California: Inyo County: 15 mi. south of Big Pine (UCD). – N. Smith, 2019:70 (in key to North American *Ammoplanellus*).

19. rhodesianus (Arnold)

Ammoplanus rhodesianus Arnold, 1924:41, ♀, ♂. Lectotype: ♂, Zimbabwe: Sawmills (SAM), designated by Bouček, 2001:919. – Arnold, 1930:9 (in checklist of Afrotropical Sphecidae); Pate, 1937b:104 (placed in subgenus *Ammoplanellus*); Giner Marí, 1943c:294 (tentatively placed in subgenus *Ammoplanellus*); Leclercq, 1959a:27 (in key to Afrotropical *Ammoplanus*), 30 (bibliographic references); Bouček, 2001:919 (in revision of Palearctic *Ammoplanus*) and 925 (in list of Afrotropical *Ammoplanus*); Bouček and Gayubo, 2001:65 (first records from Portugal: Algarve, and Spain: 6 localities); Bouček *in* Bitsch et al., 2001:149 (in Sphecidae Fauna of Western Europe); Dollfuss, 2004a:125 (Kenya: Voi; South Africa: 7 km south of Cradock, Buffelspoort 50 km south west of Springbok); Gayubo, González, Tormos, and Asís, 2008:139 (Spain: Salamanca: Parque Natural de Las Batuecas – Sierra de Francia); Baños-Picón, Asís, Gayubo, and Tormos, 2009:310 (Spain: frequency of specimens collected with hand nets and Malaise traps); Gayubo, González, Tormos, and Asís, 2009:363 (Spain: Valladolid: Reserva Natural Riberas de Castronuño – Vega del Duero); González, Gayubo, Asís, and Tormos, 2009:623 (Spain: Salamanca and Zamora provinces: Arribes del Duero Natural Park); Sakenin, Samin, Bagriacik, and Rastegar, 2011:2 (Iran: Khuzestan: Abadan); Schmid-Egger, 2011b:490 (United Arab Emirates: several localities), 493 (color photographs), 2014:522 (United Arab Emirates); Cross, Baldock, and Wood, 2021:58 (in catalog of Sphecidae *sensu lato* of Portugal). – **As *Ammoplanellus rhodesianus***: R. Bohart and Menke, 1976:199 (new combination, in checklist of world Sphecidae); Vieira, Oliveira, Brewster, and Gayubo, 2013:18

(Portugal: Serras de Aire e Candeeiros Natural Park); Jahantigh, Rakhshani; Mokhtari, and Ramroodi, 2017:71 (Iran: known from Khuzestan Province); Gadallah, 2020b:60 (in list of aculeate wasps of Arabian Peninsula); Bouček, Fernández Gayubo, and Bitsch *in* Bitsch, Antropov, Bouček, Dollfuss, Fernández Gayubo, and K. Schmidt, 2022:46 (in revision of Sphecidae *sensu lato* of Europe).

Ammoplanus consobrinus Arnold, 1927:118, ♀, ♂. Syntypes: Zimbabwe: Helenvale (SAM). Synonymized with *Ammoplanus rhodesianus* by Bouček *in* Bitsch et al., 2001:149. – Arnold, 1930:9 (in checklist of Afrotropical Sphecidae); Pate, 1937b:104 (placed in subgenus *Ammoplanellus*); Giner Marí, 1943c:294 (tentatively placed in subgenus *Ammoplanellus*); Leclercq, 1959a:27 (in key to Afrotropical *Ammoplanus*), 30 (Namibia: Aus); Bouček, 2001:924 (in list of Afrotropical *Ammoplanus*). – **As *Ammoplanellus consobrinus***: R. Bohart and Menke, 1976:199 (new combination, in checklist of world Sphecidae); S. Gess and F. Gess, 2003:101 (Namibia: visiting flowers of *Galenia papulosa* (Eckl. and Zeyh.), Aizoaceae).

Ammoplanellus angelae Gayubo, 1981b:115, ♂. Holotype: ♂, Spain: Cádiz: Zahora (Salamanca Univ.). Synonymized with *Ammoplanus rhodesianus* by Bouček, 2001:919, and by Bouček and Gayubo, 2001:65. – Mingo and Gayubo, 1984:115 (Spain); Gayubo, 1991b:144 (description of ♀, new records from Spain and Portugal); González, Gayubo, and Torres, 1998:72, 73 (Spain: Valladolid Province).

20. *schlingeri* N. Smith

Ammoplanellus schlingeri N. Smith, 2019:75, ♀, ♂. Holotype: ♀, USA: California: Santa Barbara County: Sedgewick Reserve at 34°43'N 120°02'W (UCD). – N. Smith, 2019:70 (in key to North American *Ammoplanellus*).

21. *shestakovi* (Gussakovskij)

Ammoplanus shestakovi Gussakovskij, 1931b:444, ♀, ♂. Lectotype: ♀, Kazakhstan: Tartugay 75 km southeast of Kzyl-Orda (ZIN), designated by Marshakov, 1976a:681. – Giner Marí, 1943c:293 (listed in subgenus *Ammoplanus* s.s.); R. Bohart and Menke, 1976:198 (in checklist of world Sphecidae); Marshakov, 1976a:678 (in key to Palearctic *Ammoplanus*), 681 (geographic distribution); Kazenas, 1978b:159, 160 (in key to Sphecidae of Kazakhstan and Central Asia); Marshakov, 1979b:370 (Mongolia, redescription); Bouček, 2001:921 (in revision of Palearctic *Ammoplanus*); Kazenas, 2002a:54 (geographic distribution, in Kazakhstan: Tartugay). – **As *Ammoplanellus shestakovi***: Kazenas, 2001:23 (in checklist of Sphecidae of Kazakhstan and Central Asia).

Ammoplanus clypealis Tsuneki, 1972a:224, ♀, ♂. Holotype: ♂, Mongolia: Bayankhongor Aymag: Tsanan Bod (TMB). Synonymized with *Ammoplanus shestakovi* by Marshakov, 1976a:681. – **As *Ammoplanellus clypealis***: R. Bohart and Menke, 1976:199 (new combination, in checklist of world Sphecidae); Kaplan and Yildirim, 2021:81 (in catalog of Crabronidae of Turkey).

22. *simplex* (Gussakovskij)

Ammoplanus simplex Gussakovskij, 1952:221, ♂. Holotype: ♂, Tajikistan: Mikoyanabad, now Kabadian (ZIN). – R. Bohart and Menke, 1976:198 (in checklist of world Sphecidae); Marshakov, 1976a:678 (in key to Palearctic *Ammoplanus*, in subgenus *Ammoplanellus*), 681 (Mongolia); Kazenas, 1978b:159 (in key to Sphecidae of Kazakhstan and Central Asia); Marshakov, 1979b:370 (Mongolia, redescription); Bouček, 2001:922 (in revision of Palearctic *Ammoplanus*); Bouček *in* Bitsch et al., 2001:150 (in Sphecid Fauna of Western Europe); Dollfuss, 2004a:125 (Syria: Kafr Suwayda); Mei, 2008:173 (first record from Italy: Roma: Valle dell'Insugherata, Tenuta di Castelporziano; Sicilia: Isole Eolie: Vulcano); Schmid-Egger, 2011b:490 (United Arab Emirates: several localities, recognition characters), 494 (color photograph); Bayındır, Gürbüz, Ljubomirov, and Pohl, 2013:146 (first record from Turkey: Isparta: Kasnak Oak Forest Nature Reserve); Schmid-Egger, 2014:522 (United Arab Emirates); Bitsch, 2014:406 (records from Italy by Mei, 2008 reported). – **As *Ammoplanellus simplex***: Kazenas, 2001:23 (new combination, in checklist of Sphecidae of Kazakhstan and Central Asia); Yıldırım, Ljubomirov, and Lelej, 2014:10 (distribution in Turkey by biogeographic provinces); Atbaei, Fallahzadeh, and Ljubomirov, 2015:3 (first record from Iran: Fars Province); Mokrousov, Shlyakhtenok, and Grebennikov, 2016:28 (first record from Russia: Astrakhan' Oblast': village Volzhski at 46.965°N 47.53°E and

Volzhskoe at 46.628°N 47.845°E; Kalmykia: 22 km east of Yashkul' at 46.153°N 45.646°E); Jahantigh, Rakhshani, Mokhtari, and Ramroodi, 2017:71 (Iran: known from Fars Province); Mokrousov, 2017e:246 (in catalog of Pemphredoninae of Russia); Gadallah, 2020b:60 (in list of aculeate wasps of Arabian Peninsula); Kaplan and Yildirim, 2021:81 (in catalog of Crabronidae of Turkey); Bouček, Fernández Gayubo, and Bitsch *in* Bitsch, Antropov, Bouček, Dollfuss, Fernández Gayubo, and K. Schmidt, 2022:47 (in revision of Sphecidae *sensu lato* of Europe); Kaplan and Yildirim, 2023:1678 (in checklist of Sphecidae *sensu lato* of Turkey); Tessa, Girish Kumar, Sureshan, and Hegde, 2024:74 (in key to Oriental *Ammoplanellus*), .

Ammoplanus orbiculatus Tsuneki, 1972a:226, ♀. Holotype: ♀, Mongolia: Bayanhongor Aymag: Talyn Bilekh Bulan Well (TMB). Synonymized with *Ammoplanus shestakovi* by Marshakov, 1976a:681. – **As *Ammoplanellus orbiculatus***: R. Bohart and Menke, 1976:200 (new combination, in checklist of world Sphecidae), 79 (geographic distribution)

23. *smithi* Tessa, Girish Kumar, and Sureshan

Ammoplanellus smithi Tessa, Girish Kumar, and Sureshan *in* Tessa, Girish Kumar, Sureshan, and Hegde, 2024:77, ♀. Holotype: ♀, India: Rajasthan: Bikaner District: Thar Desert: Bikaner at 28°8'28.32"N 72°53'55.68"E (Zoological Survey of India Kozhikode, Kerala, India). – Tessa, Girish Kumar, Sureshan, and Hegde, 2024:74 (in key to Oriental *Ammoplanellus*)

24. *umatilla* (Pate)

Ammoplanus umatilla Pate, 1945c:82, ♀. Holotype: ♀, USA: Washington: Franklin County: Pasco (USNM). – Krombein *in* Muesebeck et al., 1951:970 (in catalog of North American Hymenoptera). – **As *Ammoplanellus umatilla***: R. Bohart and Menke, 1976:200 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1611 (in catalog of North American Hymenoptera); Halstead, 1987:256 (California: Fresno County: Fresno; reared from galls of *Andricus quercuscalifornicus* (Bassett) on *Quercus lobata* Nees); N. Smith, 2019:70, 71 (in key to North American *Ammoplanellus*), 77 (redescription); Buck and Bennett, 2025:206 (in checklist of Sphecidae *sensu lato* of Canada, Alaska, and Greenland: Canada: Alberta: no specific locality).

25. *utahensis* N. Smith

Ammoplanellus utahensis N. Smith, 2019:75, ♀. Holotype: ♀, USA: Utah: Emery County: San Rafael Desert: Wildhorse Creek at 38°35.8'N 110°42.2'W (Utah State University). – N. Smith, 2019:70 (in key to North American *Ammoplanellus*).

26. *xila* (Pate)

Ammoplanus xila Pate, 1945c:84, ♀. Holotype: ♀, USA: Arizona: Maricopa County: Phoenix (USNM). – Krombein *in* Muesebeck et al., 1951:969 (in catalog of North American Hymenoptera). – **As *Ammoplanellus xila***: R. Bohart and Menke, 1976:200 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1611 (in catalog of North American Hymenoptera); N. Smith, 2019:70 (in key to North American *Ammoplanellus*), 80 (redescription).

sp.

Gayubo and Torres, 1991:Table I (Spain: Salamanca; effects of urban pressure).