

9 January, 2026:

DOLICHURUS

Dolichurus Latreille, 1809:387. Type species: *Pompilus corniculus* Spinola, 1808, designated by Latreille, 1810:438.

Thyreosphex Ashmead, 1904:282. Type species: *Thyreosphex stantoni* Ashmead, 1904, by monotypy.

Keys: Tsuneki, 1992a:42 (southeastern Asia); Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:7 (Philippines); Jonathan, Ray, and Kundu, 2000:169 (Meghalaya State of India); Anagha, Girish Kumar, and Sureshan, 2020:122 (India); Bai, Li Ma, Tang and Q. Li, 2025:333 (China).

Revision: Yasumatsu, 1936b:221 (East Asia); Krombein, 1979a:4 (Sri Lanka); Ohl, 2002a (Australian species); Girish Kumar and Sheikh, 2018 (India).

Nesting behavior: Brauns, 1911a:119 (species undetermined).

Review of biology: Kazenas, 2001b:61.

1. abbreviatus Strand

Dolichurus abbreviatus Strand, 1913b:154, ♀, ♂. Lectotype: ♂, Taiwan: Tainan (DEI), designated by Oehlke and Wudowenz, 1974:421. – Strand, 1927:254 (in list of species described by the author); Yasumatsu, 1936b:221 (in revision of Ampulicidae of Eastern Asia); Tsuneki, 1967c:5 (Taiwan), 1968d:58 (Taiwan); Murota, 1973b:116 (Taiwan); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Tsuneki, 1992a:40 (in checklist of *Dolichurus* of southeastern Asia), 44, 46, and 48 (in key to *Dolichurus* of southeastern Asia); Porter, Stange, and Wang, 1999:3 (in checklist of Sphecidae of Taiwan); Hua, 2006:275 (in list of Chinese insects, geographic distribution); Suda, 2013:7 (in review of Ampulicidae of eastern and southeastern Asia); Dollfuss, 2017:448 (Laos: Hua Phan: Ban Saleui on Phou Pan Mountain at 20°13'30"N 103°59'26"E); Bai, Li Ma, Tang and Q. Li, 2025:334 (in key to *Dolichurus* of China).

2. abdominalis F. Smith

Dolichurus abdominalis F. Smith, 1860a:83, ♂. Holotype or syntypes: ♂, Indonesia: Sulawesi: Makassar: no specific locality (OXUM). – F. Smith, 1863b:134 (known from Sulawesi), 1871a:362 (in catalog of Oriental Aculeata); Kohl, 1893d:506 (original description copied); Dalla Torre, 1897:370 (in catalog of world Hymenoptera); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Tsuneki, 1992a:40 (in checklist of *Dolichurus* of southeastern Asia), 44 and 48 (in key to *Dolichurus* of southeastern Asia).

3. albifacies Krombein

Dolichurus albifacies Krombein, 1979a:18, ♀, ♂. Holotype: ♀, Sri Lanka: Kandy District: Kandy: Udawattakele Sanctuary (USNM). – Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 44, 46, 47, and 48 (in key to *Dolichurus* of southeastern Asia); Girish Kumar and Sheikh, 2018:106 (in key to Indian *Dolichurus*, in revision of Indian *Dolichurus*, first record from India: Karnataka: Kandikakki); Anagha, Girish Kumar, and Sureshan, 2020:122 (in key to Indian *Dolichurus*); Anagha, Girish Kumar, and Sureshan, 2020:123 (in key to Indian *Dolichurus*), 128 (diagnosis of female, India: Tamil Nadu: Kalakkad Mundanthurai Tiger Reserve).

4. albipedigerus Bai and Q. Li

Dolichurus albipedigerus Bai and Q. Li in Bai, Li Ma, Tang and Q. Li, 2025:335, ♀, ♂. Holotype: ♀, China: Yunnan: Xishuangbanna City: Tropical Botanical Garden Rubber Plantation at 22°8'3.48"N 100°43'5.16"E (Yunnan Agricultural University, Kunming, China). Paratypes: China: Guangdong, Jiangxi provinces. – Bai, Li Ma, Tang and Q. Li, 2025:334 (in key to *Dolichurus* of China).

5. alorus Nagy

Dolichurus alorus Nagy, 1971:106, ♀. Holotype: ♀, Taiwan: Taihorin (originally C. Nagy coll., now Tel Aviv Univ.?). – R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Tsuneki, 1992a:41 (in checklist of *Dolichurus*

of southeastern Asia), 43 and 48 (in key to *Dolichurus* of southeastern Asia); Porter, Stange, and Wang, 1999:3 (in checklist of Sphecidae of Taiwan); Hua, 2006:275 (in list of Chinese insects, geographic distribution); Bai, Li Ma, Tang and Q. Li, 2025:334 (in key to *Dolichurus* of China).

6. *amamiensis* Tsuneki and Iida

Dolichurus amamiensis Tsuneki and Iida, 1964:41, ♀. Holotype: ♀, Japan: Amami Oshima Island: Koniya (originally K. Tsuneki collection, now USNM). – Tsuneki, 1967c:13 (Ryukyus), 1968b:111 (Ryukyus); Tano, 1969:76 (Japan: Ryukyu Islands: Yaéyama Group); Tsuneki and Iida, 1970:40; Tano, 1972:24 (Japan: Ryukyu Islands); Murota, 1973b:116 (Taiwan); Tsuneki, 1974b:591 (Thailand); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Tsuneki, 1976b:34 (Philippines, individual variation); nec Krombein, 1979a:20 (= *Dolichurus* sp.); Tsuneki, 1982g:54 (known from the Ryukyu archipelago); Yamane and Ikudome, 1990:96 (Japan: distribution in Ryukyu islands,); Tsuneki, 1992a:40 (in checklist of *Dolichurus* of southeastern Asia), 45, 48, and 49 (in key to *Dolichurus* of southeastern Asia); Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:7 (in key to *Dolichurus* of Philippines), 14 (Philippines, redescription); Nuhn and Menke, 1994:25 (holotype transferred to USNM); Porter, Stange, and Wang, 1999:3 (in checklist of Sphecidae of Taiwan); Yamane, Ikudome, and Terayama, 1999:470 (Japan: in Identification Guide to Ampulicidae of Nansei = Ryukyu Islands); Terayama and Tano, 2006:2, 12, 17 (in key to Japanese Ampulicidae and Sphecidae); Hua, 2006:275 (in list of Chinese insects, geographic distribution); Suda, 2013:7 (in review of Ampulicidae of eastern and southeastern Asia); Dollfuss, 2017:449 (Malaysia, Thailand, Vietnam: locality records); Girish Kumar and Sheikh, 2018:105, 106 (in key to Indian *Dolichurus*), 110 (in revision of Indian *Dolichurus*, first record from India: Goa and Kerala: several localities); Anagha, Girish Kumar, and Sureshan, 2020:122, 123 (in key to Indian *Dolichurus*), 128 (diagnosis; India: Daman and Diu, Karnataka, Kerala, Tamil Nadu, and Uttarakhand states: many localities); Pham and Antropov, 2021:315 (recorded from Vietnam by Dollfuss, 2017a); Barthélémy and Guénard, 2025:8 (China: Hong Kong); Bai, Li Ma, Tang and Q. Li, 2025:334 (in key to *Dolichurus* of China).

Dolichurus puliensis Tsuneki, 1967c:10, ♂. Holotype: ♂, Taiwan: Nantou Prefecture: Puli (originally K. Tsuneki coll., now USNM). Synonymized with *Dolichurus amamiensis* by Tano and Tsuneki, 1970:40; Nuhn and Menke, 1994:26 (holotype transferred to USNM).

7. *apiciornatus* Tsuneki

Dolichurus apiciornatus Tsuneki, 1977c:1, ♀. Holotype: ♀, Taiwan: Nantou Prefecture: Pempuchi (originally K. Tsuneki coll., now USNM). – Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 44 and 47 (in key to *Dolichurus* of southeastern Asia); Nuhn and Menke, 1994:25 (holotype transferred to USNM); Hua, 2006:275 (in list of Chinese insects, geographic distribution); Suda, 2013:7 (in review of Ampulicidae of eastern and southeastern Asia); Dollfuss, 2017:449 (Laos: near Ban Hou); Bai, Li Ma, Tang and Q. Li, 2025:334 (in key to *Dolichurus* of China).

8. *aposanus* Tsuneki

Dolichurus aposanus Tsuneki in Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:31, ♀, ♂. Holotype: ♂, Philippines: Mindanao: North Cotabato: Mount Apo (originally K. Tsuneki coll., now USNM). – Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 44, 47, and 48 (in key to *Dolichurus* of southeastern Asia); Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:7 and 8 (in key to *Dolichurus* of Philippines); Nuhn and Menke, 1994:25 (holotype transferred to USNM).

9. *arabicus* Ohl

Dolichurus arabicus Ohl, 2011:478, ♀, ♂. Holotype: ♂, United Arab Emirates: al-Ajban at 24°36'N 55°01'E (ZMHU).

Paratypes: Oman. – Soliman, Gadallah, Ohl, and Al Dhafer, 2017:8 (Saudi Arabia: several localities, diagnosis, color photographs); Gadallah, 2020a:18 (in list of aculeate wasps of Arabian Peninsula); Gadallah and Abu El-Ghiet, 2024:75 (Saudi Arabia: Jazan Province: Abu Arish).

10. *aridulus* Krombein

Dolichurus aridulus Krombein, 1979a:21, ♀, ♂. Holotype: ♀, Sri Lanka: Trincomalee District: Trincomalee: China Bay Ridge Bungalow (USNM). – Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 44, 47, 48, and 49 (in key to *Dolichurus* of southeastern Asia); Hua, 2006:275 (in list of Chinese insects, geographic distribution); Girish Kumar and Sheikh, 2018:105, 106 (in key to Indian *Dolichurus*); Anagha, Girish Kumar, and Sureshan, 2020:123 (in key to Indian *Dolichurus*), 129 (diagnosis of male; first record from India: Kerala: Maddapally and Kannapuram; Tamil Nadu: Old Courtallam); Bai, Li Ma, Tang and Q. Li, 2025:334, 335 (in key to *Dolichurus* of China).

11. *astos* Ohl

Dolichurus astos Ohl, 2002a:38, ♀, ♂. Holotype: ♀, Australia: Queensland: Bulburin State Forest at 24°32'S151°34'E (ANIC).

12. *baguionis* Tsuneki

Dolichurus baguionis Tsuneki in Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:34, ♀. Holotype: ♀, Philippines: Luzon: Baguio (USNM). – Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 44 and 47 (in key to *Dolichurus* of southeastern Asia); Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:7 (in key to *Dolichurus* of Philippines); Nuhn and Menke, 1994:25 (holotype in USNM).

13. *basuto* Arnold

Dolichurus basuto Arnold, 1952:479, ♀, ♂. Syntypes: Lesotho: Mamathes (SAM). – R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Dollfuss, 2017:449 (Ghana, Kenya, Nigeria, Senegal, South Africa, Zambia: locality records).

14. *bicolor* Lepeletier de Saint Fargeau

Dolichurus bicolor Lepeletier de Saint Fargeau, 1845:328, ♀. Syntypes: France: Paris area (depository?). – Beletskiy, 1873:80 (Ukraine: vicinity of Khar'kov); Yaroshevskiy, 1881:125 (Ukraine: Khar'kiv Oblast: Khar'kiv); Kohl, 1893d:506 (probably a ♀ of *Dolichurus dahlbomii*, original description copied); Acloque, 1897:95 (in Sphecidae Fauna of France and Algeria); Dalla Torre, 1897:370 (in catalog of world Hymenoptera); de Gaulle, 1908:103 (in catalog of French Hymenoptera); W. Schulz, 1911b:145 (*Dolichurus bicolor* is a synonym of *D. corniculus*); Berland, 1925d:65 (in Sphecidae Fauna of France); Benoist, 1927:112 (nesting habits); Berland, 1928b:176 (add Benoist, 1927 to bibliography in Berland, 1925d; France: Ardennes: Neufmanil); Maneval, 1932:91 (France: Haute-Loire: Tence, nesting habits, may be a color variation of *Dolichurus corniculus*); Giner Marí, 1943a:57 (in Sphecidae Fauna of Spain); de Beaumont, 1945:469 (Switzerland: Genève; redescription); Cavo, 1950:32 (France: Département du Nord: Omicourt and Neufmanil); Nouvel and Ribaut, 1958:10 (France: Pyrénées-Orientales: Banyuls-sur-Mer area); Wolf, 1958:13 (Germany: Marburg); Noskiewicz and Puławski, 1960:81 (in key to Polish Sphecidae, not yet found in Poland); de Beaumont, 1964c:32 (in Sphecidae Fauna of Switzerland); Schmidt, 1969:161 (Germany: Rhein-Main area); Balthasar, 1972:443 (in Sphecidae Fauna of Czechoslovakia: may be expected in the country); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); van der Zanden, 1977b:39 (first record from Finland); Puławski, 1978:186 (in key to Sphecidae of European part of former USSR); Dollfuss, 1983b:2 (occurrence in Austria doubtful); Piek and Spanjer, 1986:184 (in list of Sphecidae with known prey); Vickberg, 1986b:74 (Finland); Pagliano, 1987:258 (not recorded from Italy); Jacobs and Oehlke, 1990:123 (in addition to key of Sphecidae of German Democratic Republic), 131 (not found in Democratic Germany); Dollfuss, 1991:24 (in key to Sphecidae of North

and Central Europe); Gusenleitner, 1991:644 (Austria: Niederösterreich: Gainfarn near Bad Vöslau); Pagliano, 1991a:5 (Italy: Piemonte: Susa); Day, 1991:xiv (summary of European Endangered Hymenoptera Lists); Mochi, 1993:8 (Italy: Morlupo near Rome); Barbier, 1995:231 (first records from Belgium and Spain: Alicante); Negrisoló in Minelli, Ruffo, and La Posta, 1995b:2 (in catalog of Italian fauna); Schmid-Egger, Risch, and Niehuis, 1995:177 (Germany: Rheinland-Pfalz: collected once before 1852); Schmid-Egger, 1996a:19 (Germany: first record from Baden-Württemberg: Trockenaue west of Grifflheim); Schmid-Egger, Schmidt, and Doczkal, 1996:376 (Germany: Rheinland-Pfalz: extinct); Schmidt and Schmid-Egger, 1997:12 (in checklist of German Sphecidae); Gonzáles, Gayubo, and Torres, 1999:354 (Spain: Valladolid: Viana de Cega); Pauly, 1999:107 (in catalog of Belgian aculeates); Blösch, 2000:110 (in Sphecidae Fauna of Germany); Schmid-Egger, 2000b:275, 279 (Germany: Baden-Württemberg: shores of Rhine River); Ohl et al., 2001:139 (distribution in Germany by provinces); Gayubo, González, Tormos, and Asís, 2002:83 (distribution in Iberian Peninsula); Shorenko, 2003:96 (Ukraine: Crimea: Feodosiya); Nieves-Aldrey, Fontal-Cazalla, Garrido-Torres, and Rey del Castillo, 2003:42 (Spain: Madrid: Estación Biogeológica de El Ventorrillo in Sierra de Guadarrama); Gayubo et al., 2004:130 (Spain: Madrid: Estación Biogeológica de El Ventorrillo in Sierra de Guadarrama); Gayubo, Nieves-Aldrey, González, Tormos, Rey del Castillo, and Asís, 2004:108 (Spain: Madrid: Monte de El Pardo); Tischendorf and Frommer, 2004:68 (Germany: Hessen: near Lorch); Cruz-Sánchez, Gayubo, González, and Torres, 2005:219 (Spain: Salamanca: San Martín del Castañar); Pagliano and Negrisoló, 2005:42 (in Sphecidae Fauna of Italy); Gayubo, González, de la Nuez, Asís, and Tormos, 2006:205 (Spain: nine localities); Burguet, 2007:unnumbered p. 1 (France: Puy-de-Dôme: sands Girauds-Faures in Orléat commune); Jacobs, 2007:38, 39 (in key to Ampulicidae of Germany); Gayubo, González, Tormos, and Asís, 2008:136 (Spain: Salamanca: Parque Natural de Las Batuecas – Sierra de Francia); U. Frommer, 2009a:27 (Germany: in checklist of Sphecidae of Hessen); Gayubo, González, Tormos, and Asís, 2009:362 (Spain: Valladolid: Reserva Natural Riberas de Castronuño – Vega del Duero); Baños-Picón, Asís, Gayubo, and Tormos, 2009:310 (Spain: frequency of specimens collected with hand nets and Malaise traps); González, Gayubo, Asís, and Tormos, 2009:622 (Spain: Salamanca and Zamora provinces: Arribes del Duero Natural Park); Shorenko, 2009:366 (in list of Sphecidae *sensu lato* of Crimea); Bitsch, 2010:101 (in supplement to vol. II of Faune de France, 1997: recent records from Spain and Italy reported, several new records from France); Schmid-Egger, 2010a:11 (in red list of Aculeata of Germany: very rare); van der Smissen, 2010a:339 (Germany: Schleswig-Holstein: Grifflheim), 2010b:384 (France: Ardèche: Saint-Thomé; Vaucluse: Bédoin); Cruz-Sánchez, Asís, Gayubo, Tormos, and González, 2011:497 (Spain: Salamanca and Zamora provinces: Arribes del Duero Natural Park: effects of wildfire); Gogala, 2011:5 (Slovenia: Podčetrtek); Schmid-Egger, 2011a:20 (France: Parc National du Mercantour); Tischendorf, Frommer, Flügel et al., 2011:51 (Germany: Hessen: threatened with extinction); Boillat, 2012:225 (Switzerland: in checklist of insects of canton of Genève); Burguet in Durand and Burguet, 2012:2 (France: Puy-de-Dôme: sands Girauds-Faures in Orléat commune); Strumia, Pagliano, and Gayubo, 2012:55 (Italy: Toscana: Riserva di San Rossore); Bayındır, Gürbüz, Ljubomirov, and Pohl, 2013:146 (first record from Turkey: Isparta: Kasnak Oak Forest Nature Reserve); Vieira, Oliveira, Brewster, and Gayubo, 2013:15 (Portugal: Douro International Natural Park and Serras de Aire e Candeeiros Natural Park); Bitsch, 2014:394 (Greece: Thessaly, France: Lozère: Saint-Étienne-Vallée-Française; Puy-de Dôme: Orléat: Les Sables des Girauds-Faures; record by Schmid-Egger reported); Frommer, 2014:27 (Germany: Hessen: Lorch); Shorenko, 2015:311 (in list of Sphecidae *sensu lato* of Crimea); Le Divelec, Chapelin-Viscardi, and Larivière, 2016:108 (northern France: in agricultural landscapes); Arens, 2017a:621 (first record from Greece: Peloponnesus); Danilov, 2017b:211 (in catalog of Ampulicidae of Russia); Dollfuss, 2017:449 (France: Alpes-Maritimes: Causols; Germany: Hessen: Marburg); Magdalou, 2017:14 (France: Pyrénées-Orientales: Réserves Naturelles Catalanes: Forêt de la Massane, Julols); Shorenko, 2017:75 (in Crimea collected in July), 2018:126 (Crimea, including localities, habitats, and number of specimens); Bitsch and Barbier in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:77 (in Sphecidae Fauna of Europe); Danilov, 2020:316 (specimens from Crimea in Institute of Systematics and Ecology of Animals, Novosibirsk, Russia); Gros, 2020:396 (nesting habits); Cross, Baldock, and Wood, 2021:13 (in catalog of Sphecidae *sensu lato* of Portugal);

Mokrousov and Proshchalykin, 2021a:317 (Russia: Crimea: Karadag Nature Reserve, and Dagestan: 4 km southwest of Derbent near Dzhalgan at 42.02587°N 48.25647°E); Can, 2022c:105 (occurrence in Turkey); Kaplan and Yildirim, 2023:1679 (in checklist of Sphecidae *sensu lato* of Turkey).

15. *bimaculatus* Arnold

Dolichurus bimaculatus Arnold, 1928a:196, ♂. Syntypes: ♂, Zimbabwe: Bulawayo and Fort Rixon (SAM). – Arnold, 1930:15 (in checklist of Afrotropical Sphecidae); Schouteden, 1930:94 (Zaire); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Hancock, Chahwanda, and Mhlanga, 1995:38 (paratypes in Bulawayo Museum); Dollfuss, 2017:449 (Kenya, South Africa, Zambia, Zimbabwe: locality records).

16. *carbonarius* F. Smith

Dolichurus carbonarius F. Smith, 1869b:303, ♀. Holotype or syntypes: ♀, Australia: Western Australia: Champion Bay (BMNH). – Froggatt, 1892:216 (in catalog of Australian Hymenoptera); Kohl, 1893d:506 (original description copied); Dalla Torre, 1897:370 (in catalog of world Hymenoptera); R. Turner, 1915a:63 (Australia: Queensland: Kuranda, Mackay; Western Australia: Champion Bay); Riek, 1955:143 (revision, Queensland); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Cardale, 1985:218 (in catalog of Australian Sphecidae); Naumann, 1993:181 (Australia: Queensland: Heathlands area in Cape York), 1998:182 (Australia: northwestern Queensland: Musselbrook area, approximately 18°40'S 138°23'E); Ohl, 2002a:41 (in revision of Australian *Dolichurus*); Dollfuss, 2017:449 (Australia: Brisbane).

17. *cearensis* Ducke

Dolichurus cearensis Ducke, 1910:110, ♂. Holotype or syntypes: ♂, Brazil: Ceará: Sierra de Baturité (depository?). – R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Nascimento, 1979:13 (syntype in Mus. Goeldi, Bélem); Nascimento and Overal, 1979:8 (in list of Hymenoptera described by Adolfo Ducke), 1980:5 (Brazil); Amarante, 2002:66 (in catalog of Neotropical Ampulicidae).

18. *chareshi* Anagha and Girish Kumar

Dolichurus chareshi Anagha and Girish Kumar in Anagha, Girish Kumar, and Sureshan, 2020:123, ♂. Holotype: ♂, India: Tamil Nadu: Coonoor at 11°21'10.8"N 76°47'45.24"E (Western Ghat Regional Centre, Zoological Survey of India, Kozhikode, India). Paratype: India: Rajasthan: Mont Abu. – Anagha, Girish Kumar, and Sureshan, 2020:123 (in key to Indian *Dolichurus*).

19. *clypealis* Tsuneki

Dolichurus clypealis Tsuneki in Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:23, ♂. Holotype: ♂, Philippines: Palawan: Puerto Princesa (USNM). – Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 46 and 49 (in key to *Dolichurus* of southeastern Asia); Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:8 (in key to *Dolichurus* of Philippines); Nuhn and Menke, 1994:25 (holotype in USNM).

20. *corniculus* (Spinola)

Pompilus corniculus Spinola, 1807:52, ♂. Holotype: ♂, Italy: Liguria: near Genova (type material lost: de Beaumont, 1952e:40). – **As *Dolichurus corniculus***: Latreille, 1810:438 (new combination, *Dolichurus* spelled *Dolichure*, a French vernacular name); Shuckard, 1837:85 (in revision of British Aculeata); Dahlbom, 1942a:9 (in review of Scandinavian aculeates), 1843:29 (in revision of Sphecidae and Pompilidae), 1845:440 (in key to European Pompilidae); Stephens, 1846:14 (in revision of British insects); Wissmann, 1849:10 (Germany: Kingdom of Hannover: Werra River valley); F. Smith, 1851c:17 (Great Britain: Devonshire); Tischbein, 1852:140 (Germany: Rheinland-Pfalz: Herrstein); Wesmael, 1852:83 (Belgium, description; genus belongs to Sphecidae); F. Smith, 1853:62 (in checklist of British Hymenoptera), 1856:268 (in catalog of Hymenoptera in British Museum); Schenck, 1857:274 (in revision of Sphecidae of Nassau); F. Smith, 1858c:87 (in review of British Aculeata, redescription); Taschenberg, 1858:60 (in key to Sphecidae of Germany); Schenck, 1860:148 (Germany: Nassau Region), 1861:152 (rede-

scription); Brischke, 1862:98 (Germany: Preussen Province: Königsberg, now Russia: Kaliningrad); A. Costa, 1864b:112 (specimen from Paris, France, in Museo Zoologico di Napoli); Taschenberg, 1866:198 (in revision of Hymenoptera of Germany); A. Costa, 1867c:98 (in revision of Italian Sphecidae); Schenck, 1867a:355 (Germany: Nassau Region); Jaennicke, 1868:9 (Germany: Hessen: Taunus); A. Costa, 1869b:114 (in revision of Italian Sphecidae); F. Smith, 1871b:9 (in catalog of British Aculeata); Beuthin, 1879:240 (Germany: Hamburg area); von Heyden, 1884:115 (Germany: Frankfurt am Main); Thomson, 1870:213 (in revision of Swedish wasps); Girard, 1879:974 (morphology, intermediate between Sphecidae and Pompilidae); Kohl, 1880:184 (Austria: Tirol, and Italy: Trentino-Alto Adige), 1883e:675 (Switzerland); A. Costa, 1886c:68 (in revision of Sphecidae of Kingdom of Naples, Italy); Brischke, 1888b:94 (Germany: Königsberg, now Russia: Kaliningrad); Handlirsch, 1889b:81 (prey: *Aphlebia punctata* Charpentier, Blattidae); Kohl, 1893:36 (Austria: Niederösterreich), 1893d:507 (in revision of *Dolichurus*); Sickmann, 1893:97 (Germany: Niedersachsen: Iburg); Krieger, 1894:14 (Germany: Kingdom of Saxony); Rudow, 1896:329 (Germany: Brandenburg: no specific locality); Acloque, 1897:95 (in Sphecid Fauna of France and Algeria); Borries, 1897:120 (review of known nesting habits); Dalla Torre, 1897:370 (in catalog of world Hymenoptera); Lange, 1898:70 (Germany: Sachsen: Annaberg-Buchholz); de Cobelli, 1903:109 (Italy: Province of Trentino); J. Nielsen, 1903:113 (nesting habits); Adlerz, 1904:122 (nesting habits, known prey: blattids); Antiga and Bofill, 1904:8 (Spain: Cataluña Province); Aurivillius, 1904:264 (in revision of Swedish Sphecidae); Mantero, 1905:67 (Italy: Toscana: Isola del Giglio); Schmiedeknecht, 1907:248 (in key to Hymenoptera of Central Europe); de Gaulle, 1908:103 (in catalog of French Hymenoptera); Dittrich, 1911b:26 (Germany: Niederschlesien Province, now Poland: Dolny Śląsk Region); Graeffe, 1911:49 (Italy: Trieste area); Mantero, 1911:71 (Italy: Sardegna: Isola dell'Asinara); W. Schulz, 1911b:147 (summary of locality records); Rudow, 1912:44 9 (nesting in wood, preying on small flies, both clearly in error); Lundblad, 1913:212 (Sweden); Bouwman, 1914:392 (preying on cockroaches); O. Meyer, 1919:156 (Germany: Posen Province, now Poland: Poznań Region); Stöckert, 1919:41 (Germany: Franken); A. Wagner, 1920:34 (Germany: Lower Elbe region); Dubois, 1921a:19 (Belgium: Botassart, Malonne), 1922:214 (in key to Belgian Sphecidae); Leininger, 1924:121 (Germany: Baden-Württemberg: Waldkirch); Berland, 1925d:65 (in Sphecid Fauna of France); Bischoff, 1925:302 (Latvia: Borkowitz south of Üxküll); Coulon, 1925:114 (France: Rouen, Montgeon); Bouwman, 1926:280 (in list of Sphecidae of Netherlands); Carpentier, Crèvecoeur, and Maréchal, 1926:354 (Belgium: Tilff); Friese, 1926:161 (in key to Sphecidae of Central Europe, short morphological and biological characteristics); Hémon, 1926:199 (France: Finistère: Fouesnant); Benoist, 1927:111 (prey carrying, nest); Bouwman, 1927:110 (in revision of Sphecidae of Netherlands); F. Werner, 1927:67 (Austria: Niederösterreich: River Kamp valley); Berland, 1928b:176 (add Benoist, 1927 to bibliography in Berland, 1925d); Maneval, 1928:31 (nest, prey); Barovskij, 1929:148 (Russia: north of Sankt Petersburg); Blüthgen, 1929:83 (Germany: Saale River valley: Nautschketal); Grandi, 1929:288 (Italy: Toscana: valle della Limentra); Hedicke, 1930a:99 (Germany: Bellinchen an der Oder, now Poland: Bielinek); Schmiedeknecht, 1930:708 (in keys to Hymenoptera of North and Central Europe); Grandi, 1931:44 (prey: *Ectobius lapponicus* (Linnaeus), Ectobiidae), 56 (Italy: Toscana: Vallata delle Pozze near Le Mandriole); Pulkkinen, 1931:77 (in revision of Sphecidae of Finland); Bondroit, 1932:31 (Belgium: recorded from Bruxelles area by Vander Linden; female has seven visible terga); Crèvecoeur and Maréchal, 1932:70 (in catalog of Belgian Hymenoptera); Maneval, 1932:91 (nesting habits); E. Nielsen, 1933:313 (summary of nesting habits); Balles, 1934:22 (Germany: Baden-Württemberg: Achern, Oberachern); Jansson, 1934:290 (Sweden); Bernard, 1935:65 (France: Var: Fréjus area); Forsius in Forsius and Hellén, 1935:12 (in checklist of Hymenoptera of Finland); Grandi, 1935a:111 (Italy); Harttig, 1935:5 (northwestern Germany); Crèvecoeur et Maréchal, 1936:253 (in catalog of Belgian Hymenoptera); Zavadił, Šustera, and Bat'a, 1937:216 (in catalog of Sphecidae of Czechoslovakia); A. Wagner, 1938a:123 (northwestern Germany); Maneval, 1939:53 (nesting habits, description of larva); Paul, 1941:49 (Germany: Pommern: Stettin and Misdroy, now Poland: Województwo Zachodniopomorskie: Szczecin and Międzyzdroje); Schneid, 1941:1050 (Germany: Bayern: Bamberg area); J. Perkins, 1942:197 (Sweden: Skåne: Kivik); Giner Marí, 1943a:57 (in Sphecid Fauna of Spain); Guiglia, 1944b:16 (Italy); Carl and de

Beaumont, 1947:67 (Switzerland: Graubünden = Grisons Canton: Swiss National Park); Soyer, 1947:118 (nesting behavior, prey); van Lith, 1947:107 (Netherlands); de Hennin and Anciaux, 1948:76 (Belgium: between Sambre and Meuse rivers); Šnoflák in Zavadil and Šnoflák, 1948:56 (in key to Sphecidae of Czechoslovakia); Cavo, 1950:31 (France: Département du Nord); Caruel, 1951:100 (France: Marne Department); de Beaumont, 1951h:32 (Switzerland: Neuchâtel area); Nouvel and Ribaut, 1953:178 (France: Haute-Garonne: Saint Bât); de Beaumont, 1954:86 (Italy), 1954e:86 (Italy); Fahlander, 1954:251 (Sweden: Gästrikland Region); Grandi, 1954:151 (nesting habits), 235 (Italy); Aerts, 1955:65 (Germany: Rheinland, as *corniculatus*); Steiner, 1955:134 (France: Dordogne); Vogrin, 1955:34 (Yugoslavia); Ceballos, 1956:358 (in catalog of Hymenoptera of Spain); Hertzog, 1956:181 (keeping prey with mandibles and walking backwards); Bajári, 1957a:19 (in key to Hungarian Sphecidae); Grandi, 1957:386 (Italy); Balthasar, 1958:339 (Czech Republic); Benno, 1958b:20 (in review of Dutch Sphecidae); de Beaumont, 1958c:202 (Swiss National Park); Nouvel and Ribaut, 1958:10 (France: Pyrénées-Orientales: Banyuls-sur-Mer area, determination tentative); de Beaumont, 1959a:11 (Italy); Evans, 1959a:60 (discussion of larval characters); Grandi, 1959b:287 (Italy: Bologna: Monte Cavallo); Hamann, 1960:198 (Austria: Oberösterreich: Mönchgraben at 48°13'N 14°21'E); Noskiewicz and Puławski, 1960:81 (in key to Polish Sphecidae); Grandi, 1961:127 (nesting habits); Valkeila, 1962b:66 (southwestern Finland); Wengris, 1962:205 (Lithuania: Vilnius area); Benno, 1963:104 (Netherlands); Hoop, 1963a:73 (Germany: Schleswig-Holstein: Reher Kratt), 1963b:8 (Germany: Schleswig-Holstein: Lauenburg, Reher Kratt, Wahlstedt); Babiý, 1964:114 (Austria: Land Salzburg); de Beaumont, 1964c:31 (in Sphecidae Fauna of Switzerland); Hüsing and Jäger, 1964:192 (Germany: Sachsen-Anhalt: Nietleben near Halle), 200 (found on small clay cliff); Benno, 1967:29 (in checklist of Ampulicidae of Netherlands); de Beaumont, 1967a:277 (Turkey); Gauss, 1967:551 (Germany: Baden-Württemberg); J. Heinrich, 1967:70 (Germany: Bayern: Unterfranken District: Engelsberg near Grossheubach, as *corniculatus*); Niedl and Deneš, 1967:79 (Czech Republic: Třeboň area: Majdalena); Lefebvre, 1968a:5 (Netherlands: Baarn); Scobiola-Palade, 1968a:823 (first record from Romania: Prahova District: Cheia); Wolf, 1968:11 (Germany: Nordrhein-Westfalen: Siegen, inhabitant of forest edge); de Beaumont, 1969:81 (Turkey); Lefebvre, 1969a:79 (Netherlands: Epe; Belgium: Mechelen); Petit, 1969:71 (Luxemburg: Petite-Enneille); Babiý, 1970:19 (Austria: Salzburg); Oehlke, 1970:679 (Democratic Germany); Tumšs, 1970:76 (Latvia); Lefebvre, 1971a:17 (Netherlands: Mook); Nagy, 1971:106 (Spain: Cádiz); Schmidt, 1971c:73 (Germany: Schleswig-Holstein); Stritt, 1971a:104 (Germany: Karlsruhe); Petit, 1971:21 (Luxemburg: Schuttbouurg); Wolf, 1971:375 (Italy: Trentino-Alto Adige: Alpi Siusi); Balthasar, 1972:442 (in Sphecidae Fauna of Czechoslovakia); Haeseler, 1972:155, 200 (Germany: Schleswig-Holstein, anthropogenic habitats); Kofler, 1972:105 (Austria: eastern Tirol); Niedl and Deneš, 1972:152 (Czechoslovakia); Scobiola-Palade, 1972b:252 (Romania); Erlandsson, 1974:60 (Spain); Lomholdt, 1975c:66 (in Sphecidae Fauna of Fennoscandia and Denmark); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Eck, 1976:90 (Democratic Germany); Cretin and Robert, 1977:45 (France: Doubs: Chassagne-Saint Denis); Kolesnikov, 1977:317 (Russia: Bryansk Oblast); Schmidt, 1977:96 (Germany: Baden-Württemberg: Enzklösterle in Schwarzwald); Guichard, 1978:272 (first record from Greece: Mount Parnassus); Leclercq, 1978b:map 1165 (distribution in Belgium); Marion, 1978:86 (France: Nièvre Department); Pulawski, 1978:186 (in key to Sphecidae of European part of USSR); Schwammberger, 1978:416 (Germany: Württemberg); Lefebvre, 1979a:11 (in checklist of Sphecidae of Netherlands), 15 (Netherlands: distribution map); Schwammberger, 1979:114 (Germany: Nordrhein-Westfalen: Gildehauser Venn Nature Reserve); Pagliano, 1980:112 (Italy: Piemonte, as *cornicolus*); Westrich, 1980:628 (Germany: Baden-Württemberg: Tübingen area); Dollfuss and Ressler, 1981:314, 321 (Austria: Niederösterreich: Scheibbs District); Gayubo, 1981a:133 (northern Spain: Sierra de Béjar); Schmidt, 1981:223 (Germany: Baden-Württemberg); Axelsson, 1982:79 (Sweden); Gayubo, 1982f:244 (Spain: Cádiz Province: Fuente del Rey, San Roque); Hoop, 1982:51 (Germany: Schleswig-Holstein: Buchhorste Berge); Józán, 1983:98 (Hungary); Dollfuss, 1983b:2 (in catalog of Sphecidae of Austria); Gayubo, 1983c:229 (Salamanca Province: Linares de Riofrío, Pozos de Hinojo); Jacob-Remacle and Jacob, 1983:242 (Belgium: Liège Province: fagne de Malchamps near Spa); Mingo and Gayubo, 1983:138 (Spain); Riemann, 1983:80 (Germany: Bremen-Daverden area); Gayubo,

1984c:356 (Portugal: El Algarve Province); Schmidt and Westrich, 1984:240 (Germany: Rheinland-Pfalz: Bad Münster); Haeseler, 1985a:350 (Germany: Schleswig-Holstein); Józán, 1985b:53 (Hungary south of Lake Balaton), 68 (map of distribution in Hungary), 83 (ecological and zoogeographic characteristics); Lefebvre, 1985:87 (Netherlands: southern Limburg); Brechtel, 1986:57 (Germany: Südpfalz); Józán, 1986:367 (Hungary: Kiskunság National Park); Nilsson, 1986:87 (Sweden); Piek and Spanjer, 1986:184 (in list of Sphecidae with known prey); Steiner, 1986:94 (references to papers on nesting habits); Vickberg, 1986b:74 (Finland); Haeseler, 1987b:668 (Germany: Ipwiger Moor near Oldenburg); Pagliano, 1987:256 (Italy; redescription); Riemann, 1987b:36 (Germany: Niedersachsen: Nature Reserve Dünengebiet near Neumühlen); Dollfuss, 1988:8 (Austria: Bisamberg near Vienna); Karsai, 1988:99 (Hungary: Kiskunság National Park); Riemann, 1988:223 (Germany: Bremen area); Jacobs, 1989:3 (Germany: Mecklenburg-Vorpommern: no new records); Nilsson, 1988:98 (Sweden), 1989:47 (Sweden); Pádr *in* Šedivý, 1989a:166 (in checklist of Czechoslovakian Sphecidae); Pankevich, Belyavskaya, Molchanova, Shlyakhtenok, and Blinov, 1989:94 (Belorussia: Berezinskiy Nature Reserve); Pádr, 1990:68 (Czech Republic: Praha area); Barbier, Rasmont, and Wahis, 1990:32 (Belgium: Hainaut); Jacobs and Oehlke, 1990:123 (in addition to key to Sphecidae of German Democratic Republic), 131 (new records from Democratic Germany); Pagliano, 1990:57 (in catalog of Italian Sphecidae); Schwammberger and Priesner, 1990:532 (Austria: Kärnten); Day, 1991:xiv (summary of European Endangered Hymenoptera Lists); Dollfuss, 1991:24 (in key to Sphecidae of North and Central Europe); Gayubo, Borsato, and Osella, 1991:391 (Italy: Emilia); Schembri, 1991:175 (first record from Malta); Sorg and Wolf, 1991:195 (Germany: Koppelstein Reserve southeast of Koblenz); Bonelli, 1992:33 (preying and nesting behavior); Budrys, 1992:22 (in list of Sphecidae of Lithuania); Józán, 1992c:288 (Hungary: Zselic Hills); Nilsson, 1992:54 (Sweden); N. Schneider, 1992:178 (Luxembourg); Sorg and Cölln, 1992:132 (Germany: Rheinland-Pfalz: Gönnersdorf); K. Weber, 1992:87 (Germany: Bayern: Bamberg District); Józán, 1993:412 (Hungary: Bükk National Park); Kuhlmann, 1993:76 (Germany: known from Westfalen); Luig, 1993:40 (Estonia); Torregrosa, Gayubo, Tormos, and Asís, 1993:11 (Spain: Alicante Province); Sorg, 1993:407 (Germany: Rheinland-Pfalz: Nature Reserve Ahrschleife bei Altenahr); Blagoveshchenskaya, 1994:90 (Russia: Ul'yanovsk Oblast); Schmid-Egger, 1994a:688 (Germany: Rheinland-Pfalz: Höllenberg near Grünstadt); Theunert, 1994c:39 (summary of records from Niedersachsen and Bremen, Germany); Jansen and Kaluza, 1995:7 (Germany: endangered in Sachsen); Józán, 1995:104 (Hungary: projected Duna-Dráva National Park); Negrisolo *in* Minelli, Ruffo, and La Posta, 1995b:2 (in catalog of Italian fauna); Papp and Józán, 1995:145 (Hungary: Sikfőkút oak forest); Saure and Dürrenfeld, 1995:29 (Germany: Brandenburg: Gabower Hänge near Bad Freienwalde); Scharrer, 1995:22 (Austria: Giesshübl); Schmid-Egger, Risch, and Niehuis, 1995:177 (summary of records from Germany: Rheinland-Pfalz State); Arens, 1996:440 (Germany: Bayern: Bayreuth area); Jakubzik, 1996:252 (Germany: Köln); Blösch, 1996:3 (Germany: Bayern: Tennenloher Forst Nature Reserve near Erlangen); Jakubzik and Cölln, 1996b:399 (Germany: Rheinland-Pfalz); Schmid-Egger, 1995:60 (Germany: northwestern Baden-Württemberg, as *corniculatus*); Schmid-Egger, Schmidt, and Doczkal, 1996:376 (Germany: Baden-Württemberg: not endangered); Shlyakhtenok, 1996:303 (Belorussia: Berezinsky Nature Reserve); Witt, 1996:106 (Germany: Brandenburg), 108 (locality records); Woydak, 1996:8 (Germany: Westfalen: summary of distribution and nesting habits); Celary, 1997:57 (in checklist of Animals of Poland); Schmidt and Schmid-Egger, 1997:12 (in checklist of German Sphecidae); Stoyanov and Ljubomirov, 1997:25 (Bulgaria: Rila Mountains); F. Burger, Saure, and Oehlke, 1998:27 (Germany: in list of Sphecidae of Brandenburg); Dollfuss, Gusenleitner, and Bregant, 1998:508 (Austria: summary of collecting records from Burgenland); Jakubzik, Schlüter, and Cölln, 1998:1181, 1183 (Germany: Rheinland-Pfalz); N. Schneider and Wahis, 1998:21 (Luxemburg: sandstone quarries); H.-J. Schulz, 1998c:113 (Germany: Lausitz: former military training area near Mücka); van der Smitten, 1998:58 (Germany: Niedersachsen, Schleswig-Holstein); Wcislo, 1998:181 (proportions of antennae in relations to parasitic/non-parasitic behavior); K. Weber, 1998:138 (Germany: Bayern: Bamberg area); Cölln and Jakubzik, 1999:28 (Germany: Rheinland-Pfalz: Keuper-Scharren southwest of Hungerburg); Cretin, 1999:8 (France: Pyrénées-Orientales: Réserve Naturelle de la Massane); Gayubo, García, Torres, and González, 1999:89 (Spain: Soria Prov-

ince); Generani, Pagliano, Scaramozzino, and Strumia, 1999:79 (Italy: Toscana: Isola di Montecristo); Ljubomirov, 1999b:44 (Bulgaria: Mount Vitosha near Sofia); Gusenleitner, 1999:597 (Austria: Vorarlberg: Vandans northwest of Schruns); Herrmann, 1999:7 (Germany: Niedersachsen: Oldenburg area; habitats size); Kuhlmann, Wolf, and Woydak, 1999:569 (Germany: endangered in Nordrhein-Westfalen); Mandery, 1999:105 (Germany: Bayern: Coburg area); Neumayer, Schwarz, and Bregant, 1999:224 (Austria: in checklist of Sphecidae of Land Kärnten); Pauly, 1999:107 (in catalog of Belgian aculeates); Riemann, 1999:835 (Germany: Niedersachsen: sand pits near Bremen); M. Schwarz, 1999:84 (Austria: Oberösterreich: city of Linz area); Blösch, 2000:112 (in Sphecidae Fauna of Germany); Canovai et al., 2000:78 (Italy: Toscana: Isola di Montecristo); Dressler, 2000:32 (Germany: Hessen: Darmstadt area); Gonzales, Gayubo, and Torres, 2000:18 (Andorra: Santa Coloma); Jacobs, 2000:7 (Germany: Land Mecklenburg-Vorpommern: not endangered); Kuhlmann, 2000:64 (Germany: Hessen: Diemel River valley); Schmid-Egger, 2000b:275 (Germany: Baden-Württemberg: shores of Rhine River); Vicedomini, 2000b:24 (Italy: previously recorded from Campania); Zettel, 2000:23 (Austria: Hundsheimer Kogel, Weinviertel, Wien); Cungs and Jakubzik, 2001:122, 123 (Luxembourg); Deván, 2001:165 (Slovakia: Krasin Nature Reserve in Biele Karpaty Mountains); Józán, 2001:277 (Hungary: Somogy County); Ljubomirov, 2001b:46 (Bulgaria: Mount Vitosha near Sofia), 54 (white clypeal spots are variable and have no diagnostic value; sculpture of upper mesopleuron allows differentiation from *Dolichurus haemorrhous*); Ohl et al., 2001:139 (distribution in Germany by provinces); van der Smissen, 2001:60 (Germany: Schleswig-Holstein: not endangered); Zettel, Gross, and Mazzucco, 2001:66 (Austria: Wien); Bieri, 2002:74 (Liechtenstein); Esser and Cölln, 2002:1136 (southwestern Germany: Eifel region); Herrmann and Zinnert, 2002:25 (Germany: Baden-Württemberg: Bettenberg near Konstanz, as *Dolichoderus corniculus*); Józán, 2002:53 (Hungary: Mecsek Mountains); Shlyakhtenok and Skibinska, 2002:32 (Belorussia: no specific locality); Vischer, 2002:288 (Germany: Sachsen-Anhalt: vineyards in Saale-Unstrut area); Wiśniowski, 2002:68 (Poland: Ojców National Park); Ziska, 2002:8 (Germany: Berlin-Köpenick: Krumme Lake); Cölln, Esser, and Jakubzik, 2003:62 (Germany: northwestern Rheinland-Pfalz: excavation sites and quarries); Flügel, 2003:8 (Germany: Hessen: Knüllwald); González, Gayubo, Asís, Tormos, and García, 2003:61 (Spain: Soria: Chavaler); Generani, Pagliano, Scaramozzino, and Strumia, 2003:64 (Italy: Arcipelago Toscano); Mandery, Kraus, Voith, Wickl, Scheuchl, Schubert, and Warncke, 2003:65 (Germany: in catalog of wasps and bees of Bayern); Nieves-Aldrey, Fontal-Cazalla, Garrido-Torres, and Rey del Castillo, 2003:42 (Spain: Madrid: Estación Biogeológica de El Ventorrillo in Sierra de Guadarrama); Schmid-Egger, 2003:752 (Italy: Sicilia: Castelammare, Randazzo); von der Heide and Metscher, 2003:102 (Germany: Niedersachsen: Emsland area); Wiśniowski in Dylewska and Wiśniowski, 2003:130 (Poland: Ojców National Park); Wiśniowski and Werstak, 2003:76 (Poland: Pieniny National Park); Bergsten, Nilsson, and Hellqvist, 2004:7 (Sweden: Västerbotten: Nordmaling); Deván, 2004:147 (western Slovakia); Esser, Jakubzik, Sonnenburg, and Woydak, 2004:262 (Germany: in checklist of Sphecidae of Nordrhein-Westfalen); Gayubo et al. 2004:130 (Spain: Madrid: Estación Biogeológica de El Ventorrillo in Sierra de Guadarrama); Gayubo, Nieves-Aldrey, González, Tormos, Rey del Castillo, and Asís, 2004:108 (Spain: Madrid: Monte de El Pardo); Heitmans in Peeters, van Achterberg, et al., 2004:347 (in Wasp and Ant Fauna of Netherlands); Hellrigl, 2004a:173 (Italy: Trentino-Alto Adige, as Südtirol: Tschöggelberg); Skibińska in Bogdanowicz, Chudzicka, Pilipiuk, and Skibińska, 2004:354 (in catalog of Polish Ampulicidae); van Achterberg and Peeters, 2004:30 (in checklist of Ampulicidae of Netherlands); Wiśniowski, 2004:38 and 58 (in checklist of Polish Sphecidae); Blösch, 2005:3 (Germany: Bayern: Tennenloher Forst Nature Reserve near Erlangen); Burger, 2005:32 (Germany: Thüringen); Cruz-Sánchez, Gayubo, González, and Torres, 2005:219 (Spain: Salamanca: San Martín del Castañar); Fuhrmann, 2005:89 (Germany: Nordrhein-Westfalen: Grubengelände Littfeld Nature Reserve); Gayubo and Özbek, 2005:3 (Turkey: Erzurum: Uzundere); Hallin, 2005:16 (Sweden: Örebro County: Hällefors); Jakubzik and Cölln, 2005:63 (Germany: Rheinland-Pfalz: Bausenberg near Niederzissen); Kofler, 2005:164 (Austria: Tirol: Lienz District: Lindsberg and road to Plon in Nikolsdorf Common, Kreithof in Tristach Common); Kraatz, 2005:102 (Germany: Niedersachsen: Bümmerstede near Oldenburg); Mandery, 2005:173 (Germany: Bayern: Hainberg Nature Reserve near Nürnberg); Pagliano and Negrisolo,

2005:42 (in Sphecidae Fauna of Italy); Pijfers, 2005:49 (Netherlands: Twente: Noordelijke Manderheide); Riemann and Hohmann, 2005:554 (Germany: Niedersachsen: city of Bremen and adjacent area); Saure, 2005:13 (Germany: Berlin); Schmalz, 2005:57 (references to XIXth century authors); Theunert, 2005a:17 (Germany: in checklist of Sphecidae of Niedersachsen and Bremen); Venne and Bleidorn, 2005:42 (Germany: Nordrhein-Westfalen: Moosheide Nature Reserve); Ziska and Saure, 2005:80 (Germany: Berlin: Biesendorfer Sand); Liebig, 2006:37 (Germany: Sachsen: Muskauer Heide); Liška, 2006a:88 (Slovakia: Váh River valley near Trenčín); Magdalou, 2006a:6, 9 (France: Pyrénées-Orientales: Réserve Naturelle de la Massane), 2006c:7 (France: Pyrénées-Orientales: Réserve Naturelle du Mas-Larrieu); Shlyakhtenok, 2006:110 (Belorussia: Polesye Radiological Nature Reserve); Vepřek, 2006:508 (Czech Republic: Kokořínsko area); Burguet, 2007:unnumbered p. 1 (France: Puy-de-Dôme: sands Girauds-Faures in Orléat commune); Budrys, 2007:63 (Lithuania: Varėna District: 3 km south of Puvočiai at 54°05'20"N 24°19'20"E; Tauragė District: Viešvile Nature Reserve at 55°08'20"N 22°27'25"); Cungs, Jakubzik, and Cölln, 2007:139 (Luxemburg: Haardt Nature Reserve); Dvořák, Straka, Smetana, Halada, Vepřek, and Karas, 2007:167 (Czech Republic: Vyšenské Kopce National Nature Reserve); Hallin, 2007b:24 (Sweden: Blekinge County); Herrmann, 2007b:94 (Germany: Baden-Württemberg: Fürstenberg in Konstanz); Jacobs, 2007:38, 39 (in key to Ampulicidae of Germany); Jansen and Kaluza, 2007:22 (Germany: northwestern Sachsen); Józán, 2007:179 (Hungary: Zselic hills); Kowalczyk and Nadolski, 2007:282 (Poland: Łódź: railway areas); Saure, 2007:81 (Germany: in checklist of Aculeata of Land Brandenburg); Shlyakhtenok, 2007a:298 (Belorussia: Berezinsky Nature Reserve); Vepřek and Straka, 2007:198 (in catalog of Sphecidae of Czech Republic and Slovakia); Dvořák, Bogusch, Malenovský, Bezděčka, Bezděčková, Holý, Liška, Macek, Roller, Říha, Smetana, Straka, and Šima, 2008:66 (Czech Republic: Hády Hill near Brno); Gayubo, González, Tormos, and Asís, 2008:136 (Spain: Salamanca: Parque Natural de Las Batuecas – Sierra de Francia); Haeseler, 2008:308 (Germany: Friesian Islands); Livory, Chevin, Lair, Sagot, and Baldock, 2008:22 (France: Département de la Manche); Ljubomirov and Yildirim, 2008:9 (in catalog of Ampulicidae of Turkey); Theunert, 2008:31 (Germany: map of distribution in Niedersachsen and Bremen); Wiśniowski, 2008:635 (Poland: Ojców National Park, collected in 1998–2004); Baños-Picón, Asís, Gayubo, and Tormos, 2009:310 (Spain: frequency of specimens collected with hand nets and Malaise traps); U. Frommer, 2009a:27 (Germany: in checklist of Sphecidae of Hessen); Gayubo, González, Tormos, and Asís, 2009:362 (Spain: Valladolid: Reserva Natural Riberas de Castronuño – Vega del Duero); González, Gayubo, Asís, and Tormos, 2009:622 (Spain: Salamanca and Zamora provinces: Arribes del Duero Natural Park); Guéorguiev and Ljubomirov, 2009:261 (Bulgaria: Maleshevska Planina); Kejval, 2009:214 (Czech Republic: locality records); Mokrousov, 2009:277 (Russia: Republic Mari El); Ødegaard, Sverdrup-Thygeson, Hansen, Hanssen, and Öberg, 2009:70 (Norway: locality records); Szczepko and Wiśniowski, 2009:68 (Poland: Spała Landscape Park); Bitsch, 2010:101 (in supplement to vol. II of Faune de France, 1997: observations of Ljubomirov, 2001 on recognition characters reported, several new records for France); Burguet in Durand and Burguet, 2010:18 (France Département d'Ardèche: Ardèche Gorges); Ermilov and Mokrousov: 2010:88 (phoretic mite *Imparipes haeseleri* Ebermann and Hall in Middle Volga Region of Russia); Esser, Fuhrmann, and Venne, 2010:38 (Germany: in checklist of aculeates of Nordrhein-Westfalen); Hable, von der Dunk, and Knipfer, 2010:65 (Germany: Bayern: vicinity of Dietfurt); Hable, Krauss, von der Dunk, and Wickl, 2010:27 (Germany: Bayern: Sulz- and Ottmaringer Tal); Jakubzik and Cölln, 2010:1187 (Germany: Rheinland-Pfalz: Bruchertseifen near Altenkirchen); Johansson, 2010:121 (Sweden: Småland: upper Emå river valley); Mokrousov, 2010a:60 (Russia: Kirov and Nizhniy Novgorod Oblast's, Chuvash and Mari El republics: no specific localities); J. Neumayer, 2010:334 (Austria: Niederösterreich: Thayatal National Park); Ohl and Spahn, 2010:52 (in cladistic analysis of Ampulicidae); Saure, 2010b:174 (Germany: Berlin-Reinickendorf: airport Tempel and Flughafensee Protected Area); Schmid-Egger, 2010a:11 (in red list of Aculeata of Germany: relatively common); Schmidt, 2010:134 (Germany: Bayern: collected along Main-Donau canal); Treiber, 2010:15 (France: département du Bas-Rhin); van der Smitten, 2010a:339 (Germany: Schleswig-Holstein: locality records), 2010b:384 (France: Ardèche, Gard, and Vaucluse: locality records); Burger, 2011a:286 (Germany: in red list of Sphecidae *sensu lato* of Thüringen); Cruz-Sánchez, Asís, Gayubo, Tormos,

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Scholz and Liebig, 2013:18 (Germany: Sachsen: in list of Sphecidae *sensu lato*); Shlyakhtenok, 2013:129 (in annotated catalog of aculeate wasps of Belarus'); Vieira, Oliveira, Brewster, and Gayubo, 2013:15 (Portugal: Douro International Natural Park, Serras de Aire e Candeeiros Natural Park, and Paúl do Boquilobo Nature Reserve); Baldock, 2014:353 (Spain: Island of Mallorca); Bitsch, 2014:394 (record from France: Bas-Rhin by Treiber, 2010, reported; new records: France: Aisne: Courtemont-Varennes, Gers: Noilhan, Lozère: Saint-Étienne-Vallée-Française); U. Frommer, 2014:27 (Germany: Hessen: Lorch); Flügel, 2014:254 (Brandenburg: Hangelsberger Heide); Hellqvist, Abenius, and Norén, 2014:90 (in catalog of Ampulicidae, Sphecidae, and Crabronidae of Sweden, by provinces); Józán, 2014:131 (Croatia: Duga Uvala); Baldock, 2015:69 (Spain: Mallorca: Estellencs); Lett, 2015:5 (France: Loir-et-Cher: Gièvre); P. Rosa and Pagliano, 2015:95 (Italy: Lombardia and Piemonte: Parco del Ticino); Saure, 2015:12 (Germany: Berlin-Lichterfelde); Simon, Lorthiois, and Macé, 2015:53 (France: alluvial terraces in Eure Department: Courcelles-sur-Seine); Blažej, Macek, and Trýzna, 2016:111 (Czech Republic: České Švýcarsko = Bohemian Switzerland National Park); Cölln and Jakubzik, 2016:17 (Germany: Rheinland-Pfalz: Vulkaneifel District); Le Divelec, Chapelin-Viscardi, and Larivière, 2016:108 (northern France: in agricultural landscapes); Mokrousov and Popov, 2016:560 (Russia: Krasnodarskiy Krai); Saure, 2016b:48 (Germany: Sachsen-Anhalt: fruit orchards), 1916c:204 (Germany: center of Berlin: Großer Tiergarten Park); Stolle and Saure, 2016:919 (Germany: in list of Sphecidae *sensu lato* of Sachsen-Anhalt); Wiśniowski, 2016:126 (Poland: Ojców National Park); Yildirim, Ljubomirov, Özbek, and Yüksel, 2016:3 (Turkey: Kars: Karakurt, Sankamış: Karakurt); Arens, 2017a:622 (Greece: Peloponnese); Danilov, 2017b:211 (in catalog of Ampulicidae of Russia); Di Giovanni, Mei, and Cerretti, 2017:73 (Italy: Lombardia: Riserva Naturale Bosco della Fontana 5 km from Mantova at 45°12'N 10°44'E, found in understory); Dollfuss, 2017:449 (locality records from Austria, Bulgaria, Czech Republic, Croatia, Germany, Greece, Finland, France, Hungary, Italy, Malta, Slovakia, Slovenia, Spain, Turkey); Fresno, 2017:146 (Spain: provinces of Asturias, León, Madrid, and Segovia); Magdalou, 2017:14 (France: Pyrénées-Orientales: Réserves Naturelles Catalanes: Forêt de la Massane, Julols, Mas-Larrieu); Creutzburg, Winter, Baumbach, and Ssymank, 2018:216 (Germany: Thüringen: Wachsenburg Nature Reserve); Lett, 2018:202 (France: Loir-et-Cher: Gièvres at 47°16'39"N 1°41'52"E); Nicolas and Vago, 2018:13 (France: Pas-de-Calais: Mont Saint-Frieux); Carminati, Mora, and Cretin, 2019:8 (France: in list of Sphecidae *sensu lato* of Franche-Comté); Olszewski and Kowalczyk, 2019:89 (Poland: Pomorze Gdańskie = Gdańsk Pomerania); Bitsch and Barbier *in* Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:77 (in Sphecidae Fauna of Europe); Cassar, Mifsud, and Schmid-Egger, 2020b:84 (in key to *Dolichurus* of Malta; very rare in Malta); Danilov, 2020:316 (specimen from Belorussia in Institute of Systematics and Ecology of Animals, Novosibirsk, Russia); Ghaderipour, Khayrandish, Madjdzadeh, and Ebrahimi, 2020:113 (first record from Iran: Kerman Province: Dehkahan at 27°41'52.8"N 57°32'10.7"E); Gros, 2020:396 (nesting habits); Kejval, Blažej, and Erhart, 2020:90 (western Czech Republic); Cross, Baldock, and Wood, 2021:13 (in catalog of

Sphecidae *sensu lato* of Portugal); Herb and Schmid-Egger, 2021:9 (Germany: Bayern: Kaufbeuren area); Ol-szewski, Wiśniowski, and Ljubomirov, 2021:82 (in list of Sphecidae *sensu lato* of Poland); Saure and Marten, 2021:134 (Germany: Sachsen-Anhalt: Nationalpark Harz); Can, 2022c:105 (occurrence in Turkey); Japoshvili and Ljubomirov, 2022:275 (Georgia: Lagodekhi Protected Areas); Kaplan and Yildirim, 2023:1679 (in checklist of Sphecidae *sensu lato* of Turkey); Frommer and Klenke, 2025:163 (Germany: Hessen: Lahntal near Weilburg).

Pompilus clavipes Dahlbom, 1829:10, ♀. Syntypes: Sweden: Östergötland and Västergötland Provinces: no specific locality (Lund). Synonymized with *Dolichurus corniculus* by Dahlbom, 1843:30.

As *Dolichurus ater*: Audouin, 1824a:583 (in Dictionnaire classique d'histoire naturelle); Stephens, 1829a:361 (in catalog of British insects), 1829b:33 (in checklist of British insects); Vander Linden, 1827:365 (Belgium, as valid name for *Pompilus corniculus* Spinola); Dahlbom, 1832:58 (redescription); Casolari and Casolari Moreno, 1980:107 (specimens in M. Spinola collection, Torino); Pagliano, 2008:536 (specimens in M. Spinola collection, Torino, one specimen is *Dolichurus bicolor*).

Dolichurus dahlbomii Tischbein, 1852:137, ♀, actually ♂ (Kohl, 1893d:508), as *Dahlbomii*, incorrect original capitalization. Holotype: ♀, Germany: Rheinland-Pfalz: Herrstein (NHMW). Synonymized with *Dolichurus corniculus* by W. Schulz, 1911b:146. – Taschenberg, 1858:60 (in key to Sphecidae of Germany); Schenck, 1861:161 (redescription; Germany: Herrstein); Taschenberg, 1866:198 (in revision of Hymenoptera of Germany); Schenck, 1867a:355 (Germany: known from Herrstein); Kohl, 1893d:508 (in revision of *Dolichurus*, type in NHMW, as *Dahlbohmi*); Dalla Torre, 1897:371 (in catalog of world Hymenoptera); de Cobelli, 1903:108 (Italy: Province of Trentino); Schmiedeknecht, 1907:248 (in key to Hymenoptera of Central Europe), 1930:708 (in keys to Hymenoptera of North and Central Europe); Šnoflák in Zavadil and Šnoflák, 1948:56 (in key to Sphecidae of Czechoslovakia, not yet found in Czechoslovakia); Vogrin, 1955:34 (Yugoslavia); R. Bohart and Menke, 1976:69 (as questionable synonym of *Dolichurus bicolor*); Balthasar, 1972:444 (in Sphecid Fauna of Czechoslovakia: not yet found in country).

21. *crenatus* Ohl

Dolichurus crenatus Ohl, 2002a:45, ♂. Holotype: ♂, Australia: Queensland: Byron area in D'Aguilar Range at 27°10'S 152°44'E (ANIC). – Dollfuss, 2017:453 (Australia: Brisbane).

22. *dromedarius* Nagy

Dolichurus dromedarius Nagy, 1971:106, ♂. Holotype: ♂, Taiwan: Takao (originally C. Nagy coll., now Tel Aviv Univ.). – R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 46 and 49 (in key to *Dolichurus* of southeastern Asia); Porter, Stange, and Wang, 1999:4 (in checklist of Sphecidae of Taiwan); Hua, 2006:275 (in list of Chinese insects, geographic distribution); Bai, Li Ma, Tang and Q. Li, 2025:335 (in key to *Dolichurus* of China).

23. *formosanus* Tsuneki

Dolichurus formosanus Tsuneki, 1967c:6, ♀. Holotype: ♀, Taiwan: Chiayi Prefecture: Mount Ali (Kyushu Univ.). – R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Tsuneki, 1977c:2 (Taiwan: Nantou Prefecture: Pempuchi), 1968d:58 (Taiwan), 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 43 and 48 (in key to *Dolichurus* of southeastern Asia); Porter, Stange, and Wang, 1999:4 (in checklist of Sphecidae of Taiwan); Hua, 2006:275 (in list of Chinese insects, geographic distribution); Bai, Li Ma, Tang and Q. Li, 2025:334 (in key to *Dolichurus* of China).

24. *foroforo* Ohl, K. Fritz, and Neumann

Dolichurus foroforo Ohl, K. Fritz, and Neumann, 2004:264, ♀, ♂. Holotype: ♂, Ivory Coast: Bouaké: Foro Foro (CAS). – Dollfuss, 2017:453 (Central African Republic, Zambia, Zimbabwe: locality records).

25. *gilberti* R. Turner

Dolichurus gilberti R. Turner, 1912g:365, ♀, ♂. Holotype: ♀, India: Assam, now Meghalaya: Shillong (BMNH). – Ramakrishna Aiyar, 1916:555 (in catalog of Indian aculeates described after Bingham, 1897); R. Turner,

1917e:175 (India; prey: a blattid); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Tsuneki, 1992a:40 (in checklist of *Dolichurus* of southeastern Asia), 42 and 48 (in key to *Dolichurus* of southeastern Asia); Dollfuss, 2017:453 (India: Karnataka: Bangalore University campus); Girish Kumar and Sheikh, 2018:105 (in key to Indian *Dolichurus*), 110 (in revision of Indian *Dolichurus*); Anagha, Girish Kumar, and Sureshan, 2020:122 (in key to Indian *Dolichurus*), 130 (diagnosis of female; India: Rajasthan: Mount Abu; Uttarakhand: Kalsi; Tamil Nadu: Coonoor).

26. *greenei* Rohwer

Dolichurus greenei Rohwer, 1916a:212, ♀. Holotype: ♀, USA: Virginia: Falls Church (USNM). – Bradley, 1933a:33 (description of ♂); Krombein in Muesebeck, Krombein, and Townes, 1951:938 (in catalog of North American Hymenoptera); Krombein, 1955a:15 (prey: *Parcoblatta* sp., Ectobiidae); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Krombein, 1979b:1574 (in catalog of North American Hymenoptera); O'Brien, 1988b:81 (Michigan); Buck, 2004:24 (Canada in checklist of Ampulicidae of Ontario); Packer, 2004:134 (structure of female gastral sterna); Ohl and Spahn, 2010:52 (in cladistic analysis of Ampulicidae); Dollfuss, 2017:453 (Canada: Quebec: Gatineau Park; USA: Texas: Camp Maxey); Buck and Bennett, 2025:206 (in checklist of Sphecidae *sensu lato* of Canada, Alaska, and Greenland: Canada: Ontario, as first record from Quebec: no specific locality).

27. *guillarmodi* Arnold

Dolichurus guillarmodi Arnold, 1952:477, ♀, ♂. Syntypes: Lesotho: Mamathes (SAM). – R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Dollfuss, 2017:453 (South Africa: Northern Cape Province: 25 km east of Hondeklipbai).

28. *haemorrhous* A. Costa

Dolichurus haemorrhous A. Costa, 1886c:68, ♀. Holotype or syntypes: ♀, Italy: Puglia: Ruvo (Napoli). – De Stefani Perez, 1889:177 (Italy: Sicilia); Kohl, 1893d:509 (original description copied); Dalla Torre, 1897:371 (in catalog of world Hymenoptera); Ferton, 1894:215 (southern France); Ferton, 1895a:215 (preying and nesting behavior, description of larva); Adlerz, 1904:139 (known prey: *Loboptera decipiens* (Germar), Blattellidae); de Gaulle, 1908:103 (in catalog of French Hymenoptera); W. Schulz, 1911b:147 (is only a form of *Dolichurus corniculus*); Rudow, 1912:44 (nesting in soil, preying on small acridids, clearly in error); Ferton, 1923:132 (prey: *Loboptera decipiens* (Germar), Blattellidae, nesting in soil, position of egg on prey, cocoon); Berland, 1925d:65 (in Sphecidae Fauna of France); Giner Marí, 1943a:58 (in Sphecidae Fauna of Spain); Guiglia, 1944b:16 (Italy: Lazio); Soyer, 1947:118 (France: forêt d'Orléans and near Bergerac); de Beaumont, 1954:86 (Italy); Pulawski, 1964:66 (Egypt: Ghiza, redescription); Balthasar, 1972:443 (in Sphecidae Fauna of Czechoslovakia: not yet found in country); Erlandsson, 1974:60 (Spain); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Pulawski, 1978:186 (in key to Sphecidae of European part of USSR); Pagliano, 1980:112 (Italy: Toscana); Gayubo, 1981a:133 (northern Spain: Sierra de Béjar); Piek and Spanjer, 1986:184 (in list of Sphecidae with known prey); Steiner, 1986:94 (references to papers on nesting habits); Pagliano, 1987:258 (Italy; redescription), 1990:57 (in catalog of Italian Sphecidae); Negrisoló and Pagliano, 1993:90 (Italy: Sardegna); Negrisoló in Minelli, Ruffo, and La Posta, 1995b:2 (in catalog of Italian fauna); Cretin, 1999:8 (France: Pyrénées-Orientales: Réserve Naturelle de la Massane); Blösch, 2000:113 (in Sphecidae Fauna of Germany, not recorded from Germany); Schmid-Egger, 2003:752 (Italy: Sicilia: Agrigento, Amenta, Castelammare, Ragusa); Pagliano and Negrisoló, 2005:43 (in Sphecidae Fauna of Italy); Magdalou, 2006a:6, 9 (France: Pyrénées-Orientales: Réserve Naturelle de la Massane); Jacobs, 2007:38, 39 (in key to Ampulicidae of Germany, not yet found in Germany); Roche, 2007a:15 (in checklist of Egyptian Sphecidae, redescription); Shorenko, 2007c:554 (first record from Ukraine: Crimea: village Izobil'noye near Alushta); Gayubo, González, Tormos, and Asís, 2008:136 (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, 2009:622 (Spain: Salamanca and Zamora provinces: Arribes del Duero Natural Park); Shorenko, 2009:366 (in list of Sphecidae *sensu lato* of Crimea); Bitsch, 2010:101 (in sup-

plement to vol. II of Faune de France, 1997: recent records from Spain and France reported); Can, 2022c:106 (occurrence in Turkey); Kaplan and Yildirim, 2023:1679 (in checklist of Sphecidae *sensu lato* of Turkey).

29. *ignitus* F. Smith

Dolichurus ignitus F. Smith, 1869b:304, ♀. Holotype or syntypes: ♀, South Africa: KwaZulu-Natal: Port Natal, now Durban (BMNH). – Kohl, 1893d:510 (original description copied); Dalla Torre, 1897:371 (in catalog of world Hymenoptera); Arnold, 1928a:192 (in revision of southern African *Dolichurus*), 1930:15 (in checklist of Afrotropical Sphecidae); Schouteden, 1930:94 (Zaire); Leclercq, 1955i:405 (Rwanda); R. Bohart and Menke, 1976:69. (in checklist of world Sphecidae); Rodgers and Homewood, 1982:233 (Tanzania: Usambara Mountains); Dollfuss, 1990:122 (Central African Republic).

ssp. contractus Arnold

Dolichurus ignitus contractus Arnold, 1951:139, ♀. Syntypes: Ethiopia: Dilla (BMNH). – R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae)

30. *kohli* Arnold

Dolichurus kohli Arnold, 1928a:196, ♀ (as *Kohli*, incorrect original capitalization). Holotype: ♀, South Africa: Eastern Cape Province: Willowmore (TMP). – Arnold, 1930:15 (in checklist of Afrotropical Sphecidae); de Beaumont, 1967b:505 (South Africa: Western Cape Province: Cape Peninsula); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae).

31. *laevis* F. Smith

Dolichurus laevis F. Smith, 1873c:292, ♀. Lectotype: ♀, Brazil: São Paulo de Olivença (BMNH), designated by Dode, 1988:442. – Kohl, 1893d:510 (original description copied); Dalla Torre, 1897:371 (in catalog of world Hymenoptera, as *levis*); Ducke, 1908b:82 (Brazil: Ceará State; determination tentative); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Amarante, 2002:66 (in catalog of Neotropical Ampulicidae).

32. *lankensis* Krombein

Dolichurus lankensis Krombein, 1979a:15, ♀, ♂. Holotype: ♀, Sri Lanka: Amparai District: Akgal Aru Sanctuary Jungle (USNM). – Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 44, 47, 48, and 49 (in key to *Dolichurus* of southeastern Asia); Girish Kumar and Sheikh, 2018:106 (in key to Indian *Dolichurus*); Anagha, Girish Kumar, and Sureshan, 2020:122, 123 (in key to Indian *Dolichurus*).

33. *leioceps* Strand

Dolichurus leioceps Strand, 1913b:156, ♀. Holotype: ♀, Taiwan: Taihorinsho (DEI). – Strand, 1927:254 (in list of species described by author); Yasumatsu, 1936b:223 (in revision of Ampulicidae of Eastern Asia); Oehlke and Wudowenz, 1974:424 (holotype in DEI); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Tsuneki, 1992a:40 (in checklist of *Dolichurus* of southeastern Asia), 43 and 48 (in key to *Dolichurus* of southeastern Asia); Porter, Stange, and Wang, 1999:4 (in checklist of Sphecidae of Taiwan); Hua, 2006:275 (in list of Chinese insects, geographic distribution); Bai, Li Ma, Tang and Q. Li, 2025:333 (in key to *Dolichurus* of China).

34. *maculicollis* Tsuneki

Dolichurus maculicollis Tsuneki, 1967c:11, ♂. Holotype: ♂, Taiwan, Chiayi Prefecture: Chuchi (originally K. Tsuneki coll., now USNM). – R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 46 and 49 (in key to *Dolichurus* of southeastern Asia); Nuhn and Menke, 1994:26 (holotype transferred to USNM); Porter, Stange, and Wang, 1999:4 (in checklist of Sphecidae of Taiwan); Hua, 2006:275 (in list of Chinese insects, geographic distribution); Suda, 2013:7 (in review of Ampulicidae of eastern and southeastern Asia); Dollfuss, 2017:454 (Laos, Malaysia: locality records); Bai, Li Ma, Tang and Q. Li, 2025:335 (in key to *Dolichurus* of China).

35. *major* Kazenas

Dolichurus major Kazenas, 1976:1735, ♀. Holotype: ♀, Kazakhstan: Malay-Sary Mountains 140 km north of Alma-Ata (ZIL). – Esenbekova and Kazenas, 2000:5 (southeastern Kazakhstan: known only from Arkharly Pass in Dzhungarian Alatau); Kazenas, 1986:237 (rare in Kazakhstan, needs protection), 1998b:70 (in Sphecidae Fauna of Kazakhstan), 2002a:23 (known from single locality: Kazakhstan: Arkharly Pass 50 km northeast of Kapchagay), 2008a:97 (known from single specimen).

36. *mindanaonis* Tsuneki

Dolichurus mindanaonis Tsuneki in Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:20, ♂. Holotype: ♂, Philippines: Mindanao: Malaybalay (USNM). – Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 45 and 48 (in key to *Dolichurus* of southeastern Asia); Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:8 (in key to *Dolichurus* of Philippines); Nuhn and Menke, 1994:26 (holotype in USNM); Suda, 2013:7 (in review of Ampulicidae of eastern and southeastern Asia).

37. *nigrilamellatus* Bai and Q. Li

Dolichurus nigrilamellatus Bai and Q. Li in Bai, Li Ma, Tang and Q. Li, 2025:339, ♀. Holotype: ♀, China: Guangdong Province: Shaoguan City: Nanling Nature Reserve at 24°54'45.81"N 113°2'33.64"E (Yunnan Agricultural University, Kunming, China). – Bai, Li Ma, Tang and Q. Li, 2025:334 (in key to *Dolichurus* of China).

38. *ombrodes* Nagy

Dolichurus ombrodes Nagy, 1971:106, ♂. Holotype: ♂, Taiwan: Taihorin (originally C. Nagy coll., now Tel Aviv Univ.?). – R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 46 and 48 (in key to *Dolichurus* of southeastern Asia); Porter, Stange, and Wang, 1999:4 (in checklist of Sphecidae of Taiwan); Hua, 2006:275 (in list of Chinese insects, geographic distribution); Dollfuss, 2017:454 (Laos, Malaysia: locality records); Bai, Li Ma, Tang and Q. Li, 2025:334 (in key to *Dolichurus* of China).

39. *oxanus* Nagy

Dolichurus oxanus Nagy, 1971:107, ♀. Holotype: ♀, Indonesia: Sulawesi: no specific locality (originally C. Nagy coll., now Tel Aviv Univ.?). – R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 43 and 48 (in key to *Dolichurus* of southeastern Asia).

40. *palawanensis* Tsuneki

Dolichurus palawanensis Tsuneki in Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:26, ♀, ♂. Holotype: ♂, Philippines: Palawan: Iwahig (USNM). – Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 44, 46, and 48 (in key to *Dolichurus* of southeastern Asia); Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:7 and 8 (in key to *Dolichurus* of Philippines); Nuhn and Menke, 1994:26 (holotype in USNM); Suda, 2013:7 (in review of Ampulicidae of eastern and southeastern Asia).

ssp. davaonis Tsuneki

Dolichurus palawanensis davaonis Tsuneki in Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:29, ♀. Holotype: ♀, Philippines: Mindanao: Davao (USNM). – Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 44 and 48 (in key to *Dolichurus* of southeastern Asia); Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:7 (in key to *Dolichurus* of Philippines); Nuhn and Menke, 1994:25 (holotype in USNM).

41. *pempuchiensis* Tsuneki

Dolichurus pempuchiensis Tsuneki, 1972c:9. Holotype: ♀, Taiwan: Nantou Prefecture: Pempuchi (originally K. Tsuneki coll., now USNM). – R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Wu and Chou, 1985:154 (in key to *Dolichurus* of southeastern Asia); Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 43 and 48 (in key to *Dolichurus* of southeastern Asia); Nuhn and Menke, 1994:26 (holotype transferred

to USNM); Wu and Zhou, 1996a:24 (in revision in Economic Insect Fauna of China); Porter, Stange, and Wang, 1999:4 (in checklist of Sphecidae of Taiwan); Wu, Zhou, Q. Li, and Yang, 2003:803 (China: Fujian Province); Q. Li and He, 2004:1074 (China: in hymenopterous fauna of Zhejiang); Hua, 2006:275 (in list of Chinese insects, geographic distribution); Barthélémy and Guénard, 2025:8 (China: Hong Kong); Bai, Li Ma, Tang and Q. Li, 2025:334 (in key to *Dolichurus* of China).

42. *pigmaeus* Tsuneki

Dolichurus pigmaeus Tsuneki, 1976b:35, ♂. Holotype: ♂, Philippines: Balabac: Delawan Bay (ZMUC). – Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 47 and 49 (in key to *Dolichurus* of southeastern Asia); Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:8 (in key to *Dolichurus* of Philippines), 25 (Philippines, re-description).

Dolichurus pygmaeus Tsuneki, 1977i:4. Unjustified emendation of *Dolichurus pigmaeus* Tsuneki, 1976 (Article 33.3).

43. *pseudobimaculatus* Gadallah

Dolichurus pseudobimaculatus Gadallah in Gadallah and Abu El-Ghiet, 2024:76, ♂. Holotype: ♂, Saudi Arabia: Jazan Province: Fayfa at 17°16'07"N 43°07'32"E (Efflatoun Bey collection, Department of Entomology, Cairo University, Giza, Egypt).

44. *quadridentatus* Arnold

Dolichurus quadridentatus Arnold, 1940:116, ♀. Holotype: ♀, Zaire: Walikale (SAM). – R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae).

45. *rubripyx* Arnold

Dolichurus rubripyx Arnold, 1928a:194, ♀ (authorship attributed to H. Brauns). Holotype: ♀, South Africa: Eastern Cape Province: Willowmore (TMP). – Arnold, 1930:15 (in checklist of Afrotropical Sphecidae); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae).

46. *rugosifrons* Tsuneki

Dolichurus rugosifrons Tsuneki in Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:21, ♂. Holotype: ♂, Philippines: Luzon: Baguio (USNM). Paratypes: Philippines: Leyte. – Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 45 and 49 (in key to *Dolichurus* of southeastern Asia); Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:8 (in key to *Dolichurus* of Philippines); Nuhn and Menke, 1994:26 (holotype in USNM).

47. *sahyadriensis* Anagha and Girish Kumar

Dolichurus sahyadriensis Anagha and Girish Kumar in Anagha, Girish Kumar, and Sureshan, 2020:125, ♀, ♂. Holotype: ♂, India: Kerala: Peppara Wildlife Sanctuary: Pattankulichappara at 8°37'24.24"N 77°8'8.52"E (Western Ghat Regional Centre, Zoological Survey of India, Kozhikode, India). – Anagha, Girish Kumar, and Sureshan, 2020:122, 123 (in key to Indian *Dolichurus*).

48. *secundus* de Saussure

Dolichurus secundus de Saussure, 1892:450, ♀. Syntypes: ♀, Madagascar: Antananarivo (MHNG). – Kohl, 1893d:510 (in revision of *Dolichurus*); Dalla Torre, 1897:371 (in catalog of world Hymenoptera); Arnold, 1945:83 (Madagascar; redescription); Leclercq, 1961d:101 (Madagascar); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Leclercq, 1990b:114 (Madagascar), Madl, 1997:819 (Madagascar: island of Nosy Boraha), 821 (in checklist of Nosy Boraha Sphecidae); Pulawski, 2003b:795 (in checklist of Malagasy Sphecidae); Madl, 2014a:936 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Malagasy subregion, with synonymy and locality records); Dollfuss, 2017:454 (Madagascar: Réserve Spéciale Ambohitantely at 18°11'54"S 47°16'52"E).

Dolichurus tertius de Saussure, 1892:452, ♀. Holotype or syntypes: ♀, Madagascar: Anosibé in Bezanozano Province (MHNG). Synonymized with *Dolichurus secundus* by Arnold, 1945:83. – Kohl, 1893d:512 (in revision of *Dolichurus*); Dalla Torre, 1897:371 (in catalog of world Hymenoptera); Friese, 1900:267 (Madagascar: Nosy-Be).

49. *shirozui* Tsuneki

Dolichurus shirozui Tsuneki, 1967c:8, ♂. Holotype: ♂, Taiwan: Nantou Prefecture: Pempuchi (Kyushu Univ.). – Tsuneki, 1968d:58 (Taiwan); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 46 and 49 (in key to *Dolichurus* of southeastern Asia); Porter, Stange, and Wang, 1999:4 (in checklist of Sphecidae of Taiwan); Hua, 2006:275 (in list of Chinese insects, geographic distribution); Bai, Li Ma, Tang and Q. Li, 2025:335 (in key to *Dolichurus* of China).

50. *silvicola* Krombein

Dolichurus silvicola Krombein, 1979a:17, ♀, ♂. Holotype: ♀, Sri Lanka: Kandy District: Kandy: Udawattakele Sanctuary (USNM). – Tsuneki, 1992a:41 (in checklist of *Dolichurus* of southeastern Asia), 44, 46, 48, and 49 (in key to *Dolichurus* of southeastern Asia); Girish Kumar and Sheikh, 2018:106 (in key to Indian *Dolichurus*); Anagha, Girish Kumar, and Sureshan, 2020:122, 123 (in key to Indian *Dolichurus*).

51. *stantoni* (Ashmead)

Thyreosphex stantoni Ashmead, 1904c:282, ♂ (as *Stantoni*, incorrect original capitalization). Holotype: ♂, Philippines: Luzon: Manila (USNM). – R. Brown, 1906:687 (in catalog of Philippine Hymenoptera). – **As *Dolichurus stantoni*:** Rohwer, 1910c:659 (new combination); W. Schulz, 1911b:144 (new combination); Swezey, 1919:43 (established in Hawaii); F. Williams, 1919a:180 (introduced to Hawaii, found in Lanihuli Ridge and near Tantalus), 1919d:111 (Philippines: Luzon: Los Baños: nesting behavior); Bridwell, 1920a:277 (abundant in Kalihi Valley, Hawaii); Bridwell, 1920h:438 (reduced number of roaches); Swezey, 1920:286 (Hawaiian Islands: Wailupe Ridge), 1921b:522 (Hawaiian Islands: Kauai); F. Williams, 1927:449 (introduced into Hawaii from Philippines in 1917; spread to mountain summits of Oahu; also in Hawaii, Maui, and Kauai); Suehiro, 1960:298 (Midway Atoll); Baltazar, 1966:326 (in catalog of Hymenoptera of Philippines); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Radović, 1985:64 (sting apparatus analyzed); Piek and Spanjer, 1986:184 (in list of Sphecidae with known prey); Steiner, 1986:94 (references to papers on nesting habits); Tsuneki, 1992a:40 (in checklist of *Dolichurus* of southeastern Asia), 43, 45, 48, and 49 (in key to *Dolichurus* of southeastern Asia); Tsuneki, Nozaka, Tano, Kurokawa, and Murota, 1992a:7 (in key to *Dolichurus* of Philippines), 8 (Philippines, redescription); Suda, 2013:7 (in review of Ampulicidae of eastern and southeastern Asia); Dollfuss, 2017:454 (Indonesia: Java: Bogor; Laos: Hua Phan: Ban Saleui on Phou Pan Mountain at 20°13'30"N 103°59'26"E).

52. *taprobanae* F. Smith

Dolichurus taprobanae F. Smith, 1869b:304, ♂, actually ♀ (R. Turner, 1912g:365). Holotype: ♀, Sri Lanka: no specific locality (BMNH). – Kohl, 1893d:511 (original description copied, as *tapronabae*); Bingham, 1897:260 (redescription; Burma, Tenasserim, Sri Lanka); Dalla Torre, 1897:371 (in catalog of world Hymenoptera); R. Turner, 1912g:365 (Sri Lanka, Island of Nicobar, Sikkim); Ramakrishna Aiyar, 1916:555 (reference to Turner, 1912); R. Turner, 1917e:175 (India: Pusa); Maidl, 1925a: (Indonesia: Sumatra); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Krombein, 1979a:3 (hunting and prey), 13 (Sri Lanka, in revision of Ampulicidae of Sri Lanka); Pu, 1986:8 (China); Tsuneki, 1992a:40 (in checklist of *Dolichurus* of southeastern Asia), 44, 47, 48, and 49 (in key to *Dolichurus* of southeastern Asia); S. Gupta, 1995:85 (India: Uttar Pradesh); Jonathan, Ray, and Kundu, 2000:169 (India: Meghalaya: East Khasi Hills : Cherrapunjee); Hua, 2006:275 (in list of Chinese insects, geographic distribution); Dollfuss, 2017:454 (Laos, Malaysia, Thailand, Vietnam: local; ity records); Girish Kumar and Sheikh, 2018:106 (in key to Indian *Dolichurus*), 113 (in revision of Indian *Dolichurus*); Anagha, Girish Kumar, and Sureshan, 2020:122, 123 (in key to Indian *Dolichurus*), 130 (diagnosis; India: Karnataka, Kerala, Tamil Nadu, Uttarakhand: several localities); Pham and Antropov, 2021:315 (recorded from Vietnam by Dollfuss, 2017a).

Dolichurus bipunctatus Bingham, 1896c:438, ♂. Holotype: ♂, Burma: Pegu Hills (BMNH). Synonymized with *Dolichurus taprobanae* by Krombein, 1979a:14. – Bingham, 1897:260 (redescription); W. Schulz, 1906:186 (redescription of ♂); R. Turner, 1912g:364 (Burma, Assam, Sikkim); Ramakrishna Aiyar, 1916:555 (synonymy with *Doli-*

churus reticulatus reported); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Jonathan, Ray, and Kundu, 2000:170d (India: previously recorded from Meghalaya: Khasi Hills).

Dolichurus [sic] *clavipes* Cameron, 1897c:18, ♂, junior primary homonym of *Dolichurus clavipes* Dahlbom, 1829. Holotype: ♂, India: Bengal: Barrackpore 20 km north of Calcutta (OXUM). Synonymized with *Dolichurus taprobanae* by Krombein, 1979a:14. – Rothney, 1903:105 (India: West Bengal: Barrackpore); Ramakrishna Aiyar, 1916:555 (in catalog of Indian aculeates described after Bingham, 1897).

Dolichurus reticulatus Cameron, 1899:56, ♂. Holotype or syntypes: ♂, India: Assam: Khasia Hills (OXUM). Synonymized with *Dolichurus bipunctatus* by R. Turner, 1912g:364.

53. *turanicus* Gussakovskij

Dolichurus turanicus Gussakovskij, 1940:84. Nomen nudum.

Dolichurus turanicus Gussakovskij, 1952:224, ♀, ♂. Syntypes: Tajikistan: Kondara Canyon 35 km north of Dushanbe; Uzbekistan: Aman Kutan (ZIN). – Kazenas, 1971:161 (in Kazakhstan found only in southeastern mountains, an endemic of Tian Shan Range), 1972b:181 (Kazakhstan); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Esenbekova and Kazenas, 2000:5 (southeast Kazakhstan: Alma Ata area); Islamov, 1986:513 (Uzbekistan: Tashkent Oblast: Khumsan in Karzhantau Mountains); Kazenas, 1986:237 (rare in Kazakhstan, needs protection), Kazenas, 1998b:71 (in Sphecid Fauna of Kazakhstan), 2001b:62 (prey: *Ectobius* sp., Ectobiidae); Kazenas and Esenbekova, 2001:133 (Kazakhstan: Almatinskiy Nature Reserve); Kazenas, 2002a:23 (geographic distribution, collecting localities in Kazakhstan); Nazarova, 2004:103 (Tajikistan: Badakhshan region: Rushan district); Kazenas, 2008a:97 (Kazakhstan: foothills of Zailiyskiy Alatau near Alma-Ata); Danilov, 2020:316 (specimen from Tajikistan in Institute of Systematics and Ecology of Animals, Novosibirsk, Russia).

54. *venator* Arnold

Dolichurus venator Arnold, 1928a:194, ♀, ♂. Syntypes: Zimbabwe: Bulawayo (SAM). – Arnold, 1930:15 (in checklist of Afrotropical Sphecidae); de Beaumont, 1967b:505 (South Africa: Western Cape Province: Tzitzikama Forest); R. Bohart and Menke, 1976:69 (in checklist of world Sphecidae); Callan, 1976:232 (South Africa: Eastern Cape Province: Grahamstown); Dollfuss, 2017:455 (South Africa: KwaZulu-Natal: 20 km north of Greytown at 28°58'S 30°34'E).

55. *venkataramani* Girish Kumar and Sheikh

Dolichurus venkataramani Girish Kumar and Sheikh, 2018:113, ♂. Holotype: ♂, India: Himachal Pradesh: Kangra Valley (National Zoological Collections of the Western Ghat Regional Centre, Zoological Survey of India, Kozhikode, India). – Girish Kumar and Sheikh, 2018:106 (in key to Indian *Dolichurus*); Anagha, Girish Kumar, and Sureshan, 2020:123 (in key to Indian *Dolichurus*).

56. *yungaburra* Ohl

Dolichurus yungaburra Ohl, 2002a:46, ♀, ♂. Holotype: ♀, Australia: Queensland: 9 km northeast of Julatten at 16°36'S 145°20'E (ANIC). – Dollfuss, 2017:455 (Australia: Brisbane).

sp.

Krombein, 1979a:20 (in revision of Ampulicidae of Sri Lanka), corrected to *Dolichurus amamiensis* Krombein (nec Tsuneki and Iida) by Tsuneki, 1992:41. – Arnold, 1943:75 (Zaire); Deleurance, 1943:60 (France: Dordogne: Montignac; nesting habits); Callan, 1976:232 (South Africa: Eastern Cape Province: Grahamstown), 233 (Zimbabwe: Mount Selinda); Sk. Yamane, 1983:84 (Indonesia: Kraikatau slands); Tsuneki, 1992a:43 (in key to *Dolichurus* of southeastern Asia); S. Gupta, 1995:85 (India: Uttar Pradesh); Cambra and Santos, 2000:51 (Panama: Parque Nacional Coiba in Isla de Coiba, Pacific Ocean, first record of genus from Panamá); Starr and Hook, 2003:17 (in catalog of Aculeata of Trinidad, West Indies); Ohl and Engel, 2007:692 (photograph of undescribed species from Papua New Guinea); Dollfuss, 2017:455 (Central African Republic, Kenya, Laos, Malawi, Mozambique, Namibia,

Nigeria, Senegal, South Africa, Thailand, Zambia, and Zimbabwe); Gadallah, 2020a:18 (in list of aculeate wasps of Arabian Peninsula); Barthélémy and Guénard, 2025:9 (China: Hong Kong).

FOSSIL *DOLICHURUS*

heevansi Ohl

Dolichurus heevansi Ohl, 2004:333, ♂. Holotype: ♂, Russia: Kaliningrad Oblast': Yantarnyi, formerly Germany: Palmnicken. Age: Eocene Baltic amber (AMNH). – Bennett and Engel, 2006:7 (in checklist of amber Sphecidae *sensu lato*); Ohl and Engel, 2007:693 (color photographs of habitus, forewing, and head).

SPECIES DESCRIBED IN *DOLICHURUS* AND TRANSFERRED TO OTHER GENERA

denticollis Cameron, 1910 = *Ampulex*
morelensis F. Williams, 1962 = *Paradolichurus*
obidensis Ducke, 1903 = *Paradolichurus*

INCORRECTLY INCLUDED IN *DOLICHURUS*

Dolichurus atrum: Graeffe, 1911:49 (probably *Pison atrum*).