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## **BELOMICRUS**

*Belomicrus* A. Costa, 1867c:151. Type species: *Belomicrus italicus* A. Costa, 1867, by monotypy.

*Oxybeloides* Radoszkowski, 1877:689. Type species: *Oxybeloides fasciatus* Radoszkowski, 1877 [= *Oxybelus radoszkowskyi* Dalla Torre, 1897], by monotypy.

Revisions: Guichard, 1991b (western Palearctic); R. Bohart, 1994b (North America); Gayubo, Asís, and Tormos, 1998: 14 (review of Spanish species).

Review of biology: Kazenas, 2001b:177.

Key: Schmid-Egger, 2011a:464 (species of *Belomicrus* and *Guichardus* of Arabian Peninsula), 2021:1258 (species of *Belomicrus* and *Oxybelomorpha* of northwestern Africa and Spain).

### **1. *affinis* Gussakovskij**

*Belomicrus affinis* Gussakovskij, 1952:262, ♀. Syntypes: ♀, Tajikistan: Kzyl-kala on Vakhsh River (ZIL). –R. Bohart and Menke, 1976:263 (in checklist of world Sphecidae); Kazenas, 2001b:35 (in checklist of Sphecidae of Kazakhstan and Central Asia); Medetov, Embergenov, Kholmatov, Elmurodova, Rakhimov, and Tajibaeva, 2024:424 (Uzbekistan: distribution).

### **2. *albosectus* Kazenas and Antropov**

*Belomicrus albosectus* Kazenas and Antropov: Kazenas, 1992c:27 (nomen nudum, Turkmenistan: Repetek Nature Reserve).

*Belomicrus albosectus* Kazenas and Antropov, 1994b:78, ♀. Holotype: ♀, Turkmenistan: Repetek (ZMMU). –Kazenas, 2001b:35 (in checklist of Sphecidae of Kazakhstan and Central Asia).

### **3. *antennalis* Kohl**

*Belomicrus antennalis* Kohl, 1899:314, ♂. Holotype: ♂, European Russia: Sarepta, now Krasnoarmeysk (NHMW). –Kohl, 1923:120 (in key to world *Belomicrus*), 196 (in revision of world *Belomicrus*; Russia: Sarepta, now Krasnoarmeysk; Austria: Marchfeld); Maidl in Schmiedeknecht, 1930:666 (in keys to Hymenoptera of North and Central Europe); Zavadil, 1939:120 (Czech Republic: Morava: Hodonín); Pate, 1940b:230 (affinities); Balthasar, 1941a:105 (Czech Republic: Bzenecko area); Šnoflák in Zavadil and Šnoflák, 1948:41 (in key to Czechoslovakian Sphecidae); Vogrin, 1955:45 (Yugoslavia); Móczár, 1958c:298 (in revision of Hungarian Oxybelini; description of ♀), 1958b:207 (Hungary: Örszentmiklós); Noskiewicz and Puławski, 1960:166 (in key to Polish Sphecidae, not yet found in Poland); Balthasar, 1972:168 (in Sphecid Fauna of Czechoslovakia); Kazenas, 1972b:181 (Kazakhstan); R. Bohart and Menke, 1976:263 (in checklist of world Sphecidae); Puławski, 1978:279 (in key to Sphecidae of European part of USSR); Dollfuss, 1983b:12 (occurrence in Austria questionable); Nemkov, 1986:100 (Russia: Irkutsk Oblast); Dollfuss, 1989:7 (type material in NHMW); Pádr in Šedivý, 1989a:171 (in checklist of Czechoslovakian Sphecidae); Dollfuss, 1991:125 (in key to Sphecidae of North and Central Europe); Guichard, 1991b:366 (diagnostic characters); Józán, 1992b:174 (Hungary: Boronka-melléki Protected Area); Bitsch and Leclercq, 1993:235 (in revision of western European Crabroninae); Leclercq, 1993c:43 (in catalog of western Palearctic Crabronini and Oxybelini); Nemkov in Nemkov, Kazenas, Budrys, et Antropov, 1995:422 (in key to Sphecidae of Russian Far East); Nemkov, 1998c:686 (in supplementary key to Russian Far East *Belomicrus*); Józán, 2001:279 (Hungary: Somogy County); Kazenas, 2001b:35 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:86 (geographic distribution, collecting localities in Kazakhstan); Józán, 2003:227 (Hungary: Látrányi Pusztá Nature Conservation Area); Straka, 2005a:393 (extinct in Czech Republic); Vepřek and Straka, 2007:204 (in catalog of Sphecidae of Czech Republic and Slovakia, known only from Moravia and Slovakia); Nemkov, 2008b:20 (in catalog of Crabronidae of Asiatic Russia), 2009b:89 (in new catalog of Sphecidae and Crabronidae of Asiatic Rus-

sia); Baghirov, 2011b:149 (Russia: Altay Republic: Onguday); Józán, 2011:181 (in checklist of Sphecidae *sensu lato* of Hungary); Józán, 2014:132 (Croatia: Barić Draga, Otočac, Podoštra); Antropov, 2017b:242 (in catalog of Crabroninae of Russia); Akulov, Proshchalykin, and Mokrousov, 2020:46 (Russia: central Krasnoyarsk Kray); Leclercq, Bitsch, K. Schmidt, and Antropov *in* Bitsch, Antropov, Gayubo, Leclercq, Schmid-Egger, K. Schmidt, and Straka, 2021:326 (in revision of Sphecidae *sensu lato* of Europe); Kochetkov and Korsun, 2025:4 (Russia: Zabaikalskiy Kray: Daurский Nature Reserve).

#### 4. *apache* Pate

*Belomicrus apache* Pate, 1940a:15, ♀. Holotype: ♀, USA: New Mexico: Doña Ana County: Las Cruces (ANSP). – Burks *in* Muesebeck, Krombein, and Townes, 1951:1029 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:263 (in checklist of world Sphecidae); Krombein, 1979b:1651 (in catalog of North American Hymenoptera); R. Bohart, 1994b:212 (in revision of North American *Belomicrus*); H. Allen, 1995:15 (holotype in ANSP).

#### 5. *atlasensis* Schmid-Egger

*Belomicrus atlasensis* Schmid Eggar, 2021:1259, ♂. Holotype: ♂. Talmakant 80 km northeast of Agadir at – 30.834°N 8.956°W (Ch. Schmid Eggar coll, Berlin, Germany)– Schmid-Egger, 2021:1258 (in key to *Belomicrus* and *Oxybelomorpha* of northwestern Africa and Spain).

#### 6. *balchashensis* Kazenas

*Belomicrus balchashensis* Kazenas, 1995b:701, ♀, ♂. Holotype: ♀, Kazakhstan: 50 km northeast of Balkhash (ZIN). – Esenbekova and Kazenas, 2000:42 (southeastern Kazakhstan: 3 km northeast of Borandysu, 10 km northwest of Chundzha); Kazenas, 2001b:35 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:87 (geographic distribution, collecting localities in Kazakhstan), 2008a:103 (southeastern Kazakhstan: near Koperlik, 3 km northeast of Borandysu, 10 km northwest of Chundzha), 2013b:496 (southeastern Kazakhstan: Borandysu, 3 km northwest and 30 km east of Chilik, 10 km northwest of Chundzha on Sharyn River).

#### 7. *beelzebub* Guichard

*Belomicrus beelzebub* Guichard, 1991b:358, ♀, ♂. Holotype: ♀, Morocco: km 6 on Sidi Ifni–Goulimine road (BMNH). – Leclercq, 1993c:44 (:44 (in catalog of western Palearctic Crabronini and Oxybelini).

#### 8. *bimaculatus* Guichard

*Belomicrus bimaculatus* Guichard, 1991b:363, ♀, ♂. Holotype: ♀, Oman: Rostaq (BMNH). Paratypes: Sinai. – Leclercq, 1993c:44 (in catalog of western Palearctic Crabronini and Oxybelini); Schmid-Egger, 2011b:494 (in key to *Belomicrus* and *Guichardus* of Arabian Peninsula), 495 (color photograph, United Arab Emirates: Al-Ajban), 2014:536 (United Arab Emirates); Gadallah, 2020b:33 (in list of aculeate wasps of Arabian Peninsula).

#### 9. *boharti* Menke

*Belomicrus montanus* R. Bohart, 1994b:210 (November), ♀, ♂, junior primary homonym of *Belomicrus montanus* Kazenas and Antropov, 1994 (January). Holotype: ♀, USA: California: Mono County: White Mountains (UCD). *Belomicrus boharti* Menke, 1997b:378. Substitute name for *Belomicrus montanus* R. Bohart, 1994.

#### 10. *borealis* Forsius

*Belomicrus borealis* Forsius, 1923:65, ♀. Holotype: ♀, Finland: Sakkola on Karelian Isthmus, now Russia: Sankt Petersburg Oblast': Gromovo (depository?). – Hellén, 1926:93 (recorded from Finland); Pulkkinen, 1931:156 (in revision of Sphecidae of Finland); Merisuo, 1933b:72 (description of ♂); Forsius *in* Forsius and Hellén, 1935:11 (in checklist of Hymenoptera of Finland); Pate, 1940b:243 (affinities, bibliographic references); Fahlander, 1953a:46 (Sweden: Gästrikland: Gästrikland Hille), 1954:250 (Sweden: Gästrikland Region); Noskiewicz and Puławski, 1960:166 (in key to Polish Sphecidae, not yet found in Poland); Valkeila, 1962b:68 (southwestern Finland), 1963:231 (nesting habits; prey: beetle *Dasytus niger* (L.)); R. Bohart and Menke, 1976:263 (in checklist of world

Sphecidae); Lomholdt, 1976:269 (in Sphecidae Fauna of Fennoscandia and Denmark); Pulawski, 1978:279 (in key to Sphecidae of European part of USSR); Steiner, 1986:105 (references to publications on nesting habits); Vikberg, 1986:76 (Finland); Dollfuss, 1991:125 (in key to Sphecidae of North and Central Europe); Guichard, 1991b:366 (listed among Old World *Belomicrus*); Nilsson, 1992:54 and 56 (Sweden); Bitsch and Leclercq, 1993:235 (in revision of western European Crabroninae); Leclercq, 1993c:44 (in catalog of western Palearctic Crabronini and Oxybelini); Kazenas, 2001b:35 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:87 (geographic distribution, Kazakhstan: 80 km south of Aksuat); Söderman and Vikberg, 2002:51 (in list of Aculeata of Finland); Hansen, Kvamme, and Lønnve, 2006:304 (in Red List of Hymenoptera of Norway); Hellqvist, 2007a:21 and 2007b:7 (distribution in Sweden); Ødegaard, Sverdrup-Thygeson, Hansen, Hanssen, and Öberg, 2009:28 (known from Norway), 43, 70 (Norway: locality records); Mokrousov, 2010a:62 (Russia: Kirov Oblast': no specific localities), 2010b:100 (Russia: Kirov Oblast': no specific localities); Hellqvist, Abenius, and Norén, 2014:92 (in catalog of Ampulicidae, Sphecidae, and Crabronidae of Sweden, by provinces); Antropov, 2017b:242 (in catalog of Crabroninae of Russia); Leclercq, Bitsch, K. Schmidt, and Antropov in Bitsch, Antropov, Gayubo, Leclercq, Schmid-Egger, K. Schmidt, and Straka, 2021:326 (in revision of Sphecidae *sensu lato* of Europe).

#### 11. *bridwelli* Pate

*Belomicrus bridwelli* Pate, 1940a:93, ♀, ♂. Holotype: ♂, USA: Virginia: Fairfax County: Clifton (ANSP). – Burks in Muesebeck, Krombein, and Townes, 1951:1029 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:263 (in checklist of world Sphecidae); Krombein, 1979b:1651 (in catalog of North American Hymenoptera); R. Bohart, 1994b:219 (in revision of North American *Belomicrus*); H. Allen, 1995:15 (holotype in ANSP).

#### 12. *cahuilla* Pate

*Belomicrus cahuilla* Pate, 1940a:39, ♂. Holotype: ♂, USA: California: Riverside County: Andreas Canyon near Palm Springs (ANSP). – Burks in Muesebeck, Krombein, and Townes, 1951:1029 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:263 (in checklist of world Sphecidae); Krombein, 1979b:1651 (in catalog of North American Hymenoptera); R. Bohart, 1994b:214 (in revision of North American *Belomicrus*); H. Allen, 1995:15 (holotype in ANSP).

#### 13. *californicus* R. Bohart

*Belomicrus californicus* R. Bohart, 1994a:214, ♀, ♂. Holotype: ♂, USA: California: Placer County: Baxter (UCD).

#### 14. *christmani* Schmid-Egger

*Belomicrus christmani* Schmid-Egger, 2021:1260, ♀. Holotype: ♀, Morocco: Laanoucer at 33.711°N 4.844°E (ZSBS). – Schmid-Egger, 2021:1259 (in key to *Belomicrus* and *Oxybelomorpha* of northwestern Africa and Spain).

#### 15. *cladothricis* (Cockerell)

*Oxybelus cladothricis* Cockerell, 1895b:309, ♀, ♂. Lectotype: ♂, actually ♀ (Pate, 1940a:67): USA: New Mexico: Doña Ana County: Las Cruces (ANSP), designated by Cresson, 1928:53. – **As *Belomicrus cladothricis***: Ashmead, 1899d:162 (new combination, in checklist of North American Oxybelidae); Rohwer and Cockerell, 1908:180 (New Mexico); C. Backer, 1909:30 (California: Los Angeles County: Claremont); Kohl, 1924:270 (original description copied); Pate, 1940a:63 (in revision of North American *Belomicrus*; California, Nevada, New Mexico); Burks in Muesebeck, Krombein, and Townes, 1951:1029 (in catalog of North American Hymenoptera, as *cladothricis cladothricis*); R. Bohart and Menke, 1976:263 (in checklist of world Sphecidae); Krombein, 1979b:1651 (in catalog of North American Hymenoptera); R. Bohart, 1994b:219 (in revision of North American *Belomicrus*); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:663 (in checklist of Mexican Sphecidae).

*Belomicrus minidoka* Pate, 1940a:79, ♂. Holotype: ♂, USA: Idaho: Gooding County: Hagerman (USNM). Synonymized with *Belomicrus cladothricis* by R. Bohart in R. Bohart and Menke, 1976:363. – Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American Hymenoptera).

*Belomicrus cladothricis prosopidis* Pate, 1940a:72, ♂, ♀. Holotype: ♂, USA: California: Riverside County: Palm Springs (ANSP). Synonymized with *Belomicrus cladothricis* by R. Bohart in R. Bohart and Menke, 1976:363. – Burks in Muesebeck, Krombein, and Townes, 1951:1029 (in catalog of North American Hymenoptera); H. Allen, 1995:15 (holotype in ANSP).

#### 16. *coloratus* Baker

*Belomicrus coloratus* Baker, 1909:29, ♀ (as *colorata*, incorrect original termination). Holotype or syntypes: ♀, USA: Nevada: Ormsby County: no specific locality (USNM, but UCD according to R. Bohart 1994b). – Kohl, 1924:273 (original description copied; as *colorato*); Pate, 1940a:33 (in revision of North American *Belomicrus*; Nevada, Idaho); Burks in Muesebeck, Krombein, and Townes, 1951:1029 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:263 (in checklist of world Sphecidae); Krombein, 1979b:1651 (in catalog of North American Hymenoptera); R. Bohart, 1994b:209 (in revision of North American *Belomicrus*).

#### 17. *cookii* Baker

*Belomicrus cookii* Baker, 1909:29, ♂, ♀ (as *Cookii*, incorrect original capitalization). Lectotype: ♂, USA: California: Los Angeles County: Claremont (USNM), designated by Pate, 1940a:30. – Kohl, 1924:272 (original description copied); Pate, 1940a:29 (in revision of North American *Belomicrus*); Burks in Muesebeck, Krombein, and Townes, 1951:1029 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:263 (in checklist of world Sphecidae); Krombein, 1979b:1651 (in catalog of North American Hymenoptera).

#### 18. *corniger* Kazenas

*Belomicrus corniger* Kazenas, 1995b:703, ♀, ♂. Holotype: ♂, Kazakhstan: 20 km north of Zharm (ZIN). – Esenbekova and Kazenas, 2000:42 (southeastern Kazakhstan: 8 km south of Borandysu); Kazenas, 2001b:35 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:87 (geographic distribution, collecting localities in Kazakhstan), 2008a:103 (southeastern Kazakhstan: 25 km southwest of Lepsy, 50 and 110 km northeast of Balkhash, 8 km south of Borandysu); Antropov, 2017b:242 (in catalog of Crabroninae of Russia); Mokrousov, 2017d:59 (South-East of European Russia: no specific locality).

#### 19. *costalis* R. Bohart

*Belomicrus costalis* R. Bohart, 1994a:215, ♀, ♂. Holotype: ♂, California: Yolo County: Cache Creek Canyon (UCD).

#### 20. *cucamonga* Pate

*Belomicrus cucamonga* Pate, 1940a:76, ♀. Holotype: ♀, USA: California: Los Angeles County: Camp Baldy in San Gabriel Mountains (ANSP). Paratype: Washington. – Burks in Muesebeck, Krombein, and Townes, 1951:1029 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Krombein, 1979b:1651 (in catalog of North American Hymenoptera); R. Bohart, 1994b:220 (in revision of North American *Belomicrus*); H. Allen, 1995:15 (holotype in ANSP).

#### 21. *darwini* R. Bohart

*Belomicrus darwini* R. Bohart, 1994a:220, ♀, ♂. Holotype: ♀, USA: California: Inyo County: Darwin Falls (UCD).

#### 22. *desertus* R. Bohart

*Belomicrus desertus* R. Bohart, 1994a:210, ♀, ♂. Holotype: ♀, USA: California: San Bernardino County: Kramer Junction (UCD).

### 23. *dimorphus* Guichard

*Belomicrus dimorpha* Guichard, 1991b:359, ♀, ♂, incorrect original termination. Holotype: ♀, Saudi Arabia: El Ha'ir near El Riyadh (BMNH). – Leclercq, 1993c:44 (in catalog of western Palearctic Crabronini and Oxybelini; Algeria: 10 km on Tamanrasset-Assekrem road, Oued Tekouiat); Roche, 2007a:101 and 2007b:6 (in checklist of Egyptian Ampulicidae, Sphecidae, and Crabronidae); Schmid-Egger, 2011b:494 (in key to *Belomicrus* and *Guichardus* of Arabian Peninsula), 495 (United Arab Emirates: Al-Ajban, Dubai/Nakhalai, Sharjah Desert Park, Wadi Ma'idaq), 496 (color photograph); Gadallah, Al Dhafer, Aldryhim, Fadl, and Elgharbawy, 2013:350 (in new catalog of Sphecidae of Saudi Arabia); Schmid-Egger, 2014:536 (United Arab Emirates); Gadallah, 2020b:33 (in list of aculeate wasps of Arabian Peninsula); Gadallah and Abu El-Ghiet, 2024:87 (Saudi Arabia: Jazan Province: Abu Arish).

### 24. *dunensis* de Beaumont

*Belomicrus dunensis* de Beaumont, 1957a:161, ♀, ♂. Holotype: ♀, Morocco: Tiznit: Sidi Moussa (Lausanne). – Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Guichard, 1991b:364 (discussion of recognition characters); Leclercq, 1993c:44 (in catalog of western Palearctic Crabronini and Oxybelini).

### 25. *eriogoni* Pate

*Belomicrus cladothricis eriogoni* Pate, 1940a:70, ♀, ♂. Holotype: ♂, USA: California: Monterey County: San Lucas (ANSP). – Burks in Muesebeck, Krombein, and Townes, 1951:1029 (in catalog of North American Hymenoptera); H. Allen, 1995:15 (holotype in ANSP). – **As *Belomicrus eriogoni***: R. Bohart in R. Bohart and Menke, 1976:363 (new status, in checklist of world Sphecidae); Krombein, 1979b:1651 (in catalog of North American Hymenoptera); R. Bohart, 1994b:220 (in revision of North American *Belomicrus*); Ohl and Linde, 2003:151 (number of ovarioles).

### 26. *excisus* Gussakovskij

*Belomicrus excisus* Gussakovskij, 1935:437 (nomen nudum). – Pate, 1940b:245 (*excisus* is a nomen nudum).

*Belomicrus excisus* Gussakovskij, 1952:260, ♂. Holotype: ♂, Tajikistan: Peter-the-Great Range: Zakh-Bursy (ZIL). – R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Kazenas, 2001b:35 (in checklist of Sphecidae of Kazakhstan and Central Asia).

### 27. *forbesii* (Ch. Robertson)

*Oxybelus forbesii* Ch. Robertson, 1889:85, ♂ (as *Forbesii*, incorrect original capitalization). Holotype: ♂, USA: Colorado: no specific locality (ANSP). – Ashmead, 1890:31 (in checklist of Hymenoptera of Colorado); Dalla Torre, 1897:641 (in catalog of world Sphecidae); Ashmead, 1899d:162 (in checklist of North American Oxybelidae); Cresson, 1928:53 (holotype in ANSP). – **As *Belomicrus forbesii***: C. Baker, 1909:30 (new combination, Colorado: Denver); Kohl, 1924:273 (original description copied); Strickland, 1947:127 (Canada: Alberta: Athabasca, Cypress Hills); Pate, 1940a:20 (in revision of North American *Belomicrus*); Burks in Muesebeck, Krombein, and Townes, 1951:1029 (in catalog of North American Hymenoptera, as *forbesii forbesii*); Evans, 1969a:122 (nesting habits), 1970:492 (Wyoming: Jackson Hole, as *forbesii forbesii*); Horning and Barr, 1970:106 (USA: Idaho: Craters of the Moon National Monument, as *forbesii forbesii*); R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Krombein, 1979b:1651 (in catalog of North American Hymenoptera); Spofford, Kurczewski, and Downes, 1989:258 (reference to publication on nest parasite *Senotainia trilineata* (Wulp), a miltogrammine fly); R. Bohart, 1994b:210 (in revision of North American *Belomicrus*); Blades and Maier, 1996:72 (Canada: British Columbia: Osoyoos–Mount Kobau area at 119°40'W 49°05'N); Buck and Bennett, 2025:216 (in checklist of Sphecidae *sensu lato* of Canada, Alaska, and Greenland: Canada: Alberta, British Columbia, and Manitoba, first record from Saskatchewan: no specific locality), 288 (justification of renewed synonymy).

*Oxybelus columbianus* Kohl, 1892:208, ♂, ♀. Syntypes: Canada: British Columbia: Revelstoke and Yale; USA: Washington: Easton (NHMW). Synonymized with *Belomicrus forbesii* by Pate, 1940a:21, synonymy confirmed by

Buck in Buck and Bennett, 2025:288. – Dalla Torre, 1897:639 (in catalog of world Sphecidae). – **As *Belomicrus columbianus***: Kohl, 1923:120 (new combination, in key to world *Belomicrus*), 1924:258 (in revision of world *Belomicrus*); Ault, 1976:29 (nesting habits); Dollfuss, 1989:7 (type material in NHMW); R. Bohart, 1994b:209 (resurrected to valid species status, in revision of North American *Belomicrus*): Ratzlaff, 2016:24 (Canada: British Columbia: from Kohl, 1892 and R. Bohart, 1994b).

*Belomicrus larimerensis* Rohwer, 1908f:417, ♀. Syntypes: USA: Colorado: Larimer County: no specific locality (USNM). Synonymized with *Belomicrus forbesii* by Pate, 1940a:21 and with *Belomicrus columbianus* by R. Bohart, 1994b:209. – Kohl, 1924:271 (original description copied).

### 28. *franciscus* Pate

*Belomicrus franciscus* Pate, 1931b:77, ♂, ♀. Holotype: ♂, USA: California: San Francisco: Lone Mountain, now University of San Francisco campus (originally Cornell Univ., but ANSP according to Pate, 1940a:50). – F. Williams, 1936a:3 (nesting habits, prey: *Trichochrous antennatus* Mots., a melyrid beetle); Pate, 1940a:50 (in revision of North American *Belomicrus*); Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Krombein, 1979b:1651 (in catalog of North American Hymenoptera); R. Bohart, 1994b:216 (in revision of North American *Belomicrus*).

### 29. *funereus* Guichard

*Belomicrus funereus* Guichard, 1991b:361, ♀, ♂. Holotype: ♀, Morocco: 18 km north of Agadir (J. Gusenleitner coll., Linz, Austria). – Leclercq, 1993c:44 (in catalog of western Palearctic Crabronini and Oxybelini).

### 30. *gataensis* Gayubo, Asís, and Tormos

*Belomicrus gataensis* Gayubo, Asís, and Tormos, 1998b: 13, ♀. Holotype: ♀, Spain: Almería Province: Cabo de Gata (Univ. Salamanca). – J. Fernandez, 2000:142 (description of the species recorded); Leclercq, Bitsch, K. Schmidt, and Antropov in Bitsch, Antropov, Gayubo, Leclercq, Schmid-Egger, K. Schmidt, and Straka, 2021:327 (in revision of Sphecidae *sensu lato* of Europe).

### 31. *glaber* Kazenas

*Belomicrus glaber* Kazenas, 1993a:186, ♀. Holotype: ♀, Central Kazakhstan: Aktogay village (ZIN). – Kazenas, 2001b:35 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:87 (geographic distribution, collecting localities in Kazakhstan).

### 32. *guelmimensis* Guichard

*Belomicrus guelmimensis* Guichard, 1991b:360, ♀, ♂. Holotype: ♀, Morocco: km 10 on Teuilmim-Tan road (BMNH). – Leclercq, 1993c:44 (in catalog of western Palearctic Crabronini and Oxybelini).

### 33. *gussakovskiji* Kazenas and Antropov

*Belomicrus gussakovskiji* Kazenas and Antropov, 1994a:69, ♀, ♂. Holotype: ♀, Uzbekistan: Kamashi 35 km west of Karshi (ZIN). Paratypes: Tajikistan. – Kazenas, 2001b:35 (in checklist of Sphecidae of Kazakhstan and Central Asia); Medetov, Embergenov, Kholmatov, Elmurodova, Rakhimov, and Tajibaeva, 2024:424 (Uzbekistan: distribution).

**34. heinrichwolffi Schmid-Egger**

*Belomicrus heinrichwolffi* Schmid-Egger, 2021:1263, ♂. Holotype: ♂, Spain: Alicante: Javes at 38.802°N 0.181°E (Ch. Schmid-Egger coll., Berlin, Germany)– Schmid-Egger, 2021:1259 (in key to *Belomicrus* and *Oxybelomorpha* of northwestern Africa and Spain).

**35. iliensis Kazenas**

*Belomicrus iliensis* Kazenas, 1991b:146, ♀, ♂. Holotype: ♀, southeastern Kazakhstan: Almaty Oblast': Ili River 65 km west of Bakanas (ZIL). – Kazenas, 2002a:87 (geographic distribution, collecting localities in Kazakhstan, as new species); Medetov, Embergenov, Kholmatov, Elmurodova, Rakhimov, and Tajibaeva, 2024:424 (Uzbekistan: distribution).

**36. intermedius Kazenas**

*Belomicrus intermedius* Kazenas, 1993a:188, ♀. Holotype: ♀, southern Kazakhstan: Zhambyl Oblast': Zhanatas in Karatau Mountains (ZIL). – Kazenas, 2001b:35 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:87 (geographic distribution, collecting localities in Kazakhstan), 2004b:105 (Kazakhstan: western Tien Shan), 2014a:136 (Kazakhstan: Karatau Mountain Range).

**37. interruptus Antropov**

*Belomicrus interruptus* Antropov, 1995d:99, ♀. Holotype: ♀, Kazakhstan: Karaganda Oblast': Koksenghir south of Zhana-Arka (ZMMU). – Kazenas, 2001b:35 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:87 (geographic distribution).

**38. inyo R. Bohart**

*Belomicrus inyo* R. Bohart, 1994a:220, ♀, ♂. Holotype: ♀, USA: California: Inyo County: Antelope Springs (UCD).

**39. istam Pate**

*Belomicrus istam* Pate, 1940a:81, ♀, ♂. Holotype: ♂, USA: California: Riverside County: Colorado Desert 4.5 mi. northwest of Edom (ANSP). – Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Krombein, 1979b:1651 (in catalog of North American Hymenoptera); R. Bohart, 1994b:201 (in revision of North American *Belomicrus*); H. Allen, 1995:15 (holotype in ANSP).

**40. italicus A. Costa**

*Belomicrus italicus* A. Costa, 1867c:151, ♂. Holotype: ♂, Italy: Piemonte: no specific locality (Napoli). – Gribodo, 1884b:280 (description of ♀), 1919:857 (Italy: Piemonte: Susa); Antiga and Bofill, 1904:28 (Spain: Cataluña Province); Kohl, 1924:269 (original description copied); Pate, 1940b:245 (discussion of identity; bibliography); Giner Marí, 1943a:252 (in Sphecid Fauna of Spain); Guiglia, 1944b:42 (Italy: Toscana; redescription); de Andrade, 1949:22 (Portugal); Guiglia, 1953:141 (Italy; redescription); Grandi, 1954:245 (Italy); Ceballos, 1956:396 (in catalog of Sphecidae of Spain); Móczár, 1958b:207 (Hungary: list of collecting localities); Grandi, 1961:254 (nesting habits); Balthasar, 1958:337 (Slovakia: Gbelce, Nitra); Diniz, 1959:32 (Portugal: São João do Estoril); Noskiewicz and Puławski, 1960:166 (in key to Polish Sphecidae, not yet found in Poland); de Beaumont, 1965a:63 (Greece); Mingo Pérez, 1966:107 (Spain, Portugal); de Beaumont, 1967a:366 (Turkey), 1969:94 (Turkey); Balthasar, 1972:167 (in Sphecid Fauna of Czechoslovakia); R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Pulawski, 1978:279 (in key to Sphecidae of European part of USSR); Benedek, 1979:236 (Hungary: Bakony Hills); Pagliano, 1980:118 (Italy: Piemonte); Dollfuss, 1983a:76 (endangered in Niederösterreich, Austria), 1983b:12 (in catalog of Sphecidae of Austria: Niederösterreich); Józán, 1985b:58 (Hungary: Pécs: Tettye), 69 (map of distribution in Hungary), 84 (ecological and zoogeographic characteristics); Radović, 1985:65 (sting apparatus analyzed); Dollfuss, 1987:21 (Austria), 1988:14, 25 (Austria: Bisamberg near Vienna; Niederösterreich: Oberweiden); Pádr in Šedivý, 1989a:171 (in checklist of Czechoslovakian Sphecidae); Pádr, 1990:90

(Czech Republic: Praha area); Pagliano, 1990:77 (in catalog of Italian Sphecidae); Day, 1991:xiii (summary of European Endangered Hymenoptera Lists); Dollfuss, 1991:126 (in key to Sphecidae of North and Central Europe); Guichard, 1991b:366 (quoting de Beaumont's observation on variation); Bitsch and Leclercq, 1993:236 (in revision of western European Crabroninae); Leclercq, 1993c:44 (in catalog of western Palearctic Crabronini and Oxybelini; collecting localities from Spain, Greece, Cyprus); Dollfuss, 1994:103 (endangered in Austria); Negrisola in Minelli, Ruffo, and La Posta, 1995b:6 (in catalog of Italian fauna); Gayubo, Asís, and Tormos, 1998b: 14 (in review of Spanish *Belomicrus*); Ljubomirov, 1999b:52 (Bulgaria: Mount Vitosha near Sofia); Pagliano and Scaramozzino, 1999:157 (Italy: Piemonte: Borgomale); Józán, 2000:109 (Hungary: Bakony Mountains: Balatonkenese); Kazenas, 2001b:35 (in checklist of Sphecidae of Kazakhstan and Central Asia); Józán, 2002:53 (Hungary: Mecsek Mountains); Kazenas, 2002a:87 (geographic distribution, collecting localities in Kazakhstan); Drewes, 2003:133 (Cyprus: near Limassol); Schmid-Egger, 2003:750 (Italy: Sicilia: Amenta, Amerina, Bronte, Madonie; Malta: Ramla); Jacobs, 2005a:439 (Bulgaria: Razlog); Pagliano and Negrisola, 2005:195 (in Sphecidae Fauna of Italy); Straka, 2005a:397 (critically endangered in Czech Republic); Standfuss and Standfuss, 2006b:99 (Greece: Thessalia: Magnisia Peninsula at 39°N 23°E); Vepřek and Straka, 2007:204 (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); Ljubomirov and Yildirim, 2008:245 (in catalog of Crabronidae of Turkey); Bitsch and Leclercq, 2009:227 (in supplement to vol. I of Faune de France, 1993: recently recorded from Bulgaria, Malta, and Sicilia); Guéorguiev and Ljubomirov, 2009:265 (Bulgaria: Maleshevska Planina); Pagliano, 2009:180 (Italy: recorded from Sicilia by Schmid-Egger, 2003); Józán, 2011:181 (in checklist of Sphecidae *sensu lato* of Hungary), 2014:132 (Croatia: Susanj); Yildirim, Ljubomirov, and Lelej, 2014:13 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:137 (in checklist of Hymenoptera of Turkey); Schmid-Egger, Dandria, and Xuereb, 2016:80 (in checklist of Crabronidae of Maltese Islands); Wiesbauer, 2016:31 (first record from Austria: Niederösterreich: Spitzberg at 48°12'37"N 16°52'11"E; nesting habits); Fresno, 2018:231 (Spain: Valladolid: Villavieja del Cerro); Rezaei, Fallahzadeh, Dousti, and Saghaei, 2020b:11 (Iran: Fars: Kazeroon: Zavali at 29°32'53"N 51°46'23"E); Cross, Baldock, and Wood, 2021:51 (in catalog of Sphecidae *sensu lato* of Portugal); Kaplan and Yildirim, 2021:71 (in catalog of Crabronidae of Turkey); Leclercq, Bitsch, K. Schmidt, and Antropov in Bitsch, Antropov, Gayubo, Leclercq, Schmid-Egger, K. Schmidt, and Straka, 2021:327 (in revision of Sphecidae *sensu lato* of Europe); Schmid-Egger, 2021:1258 (in key to *Belomicrus* and *Oxybelomorpha* of northwestern Africa and Spain), 1262 (specimens from North Africa probably are *B. rasmonti*); Kaplan and Yildirim, 2023:1682 (in checklist of Sphecidae *sensu lato* of Turkey); Gülmez, Çubuk, and Can, 2025:172 (Turkey: Çanakkale: Kelkit River Valley). – ***As Oxybelus italicus***: Kohl, 1884b:112 (new combination, in checklist of *Oxybelus*); Dalla Torre, 1897:642 (in catalog of world Sphecidae); Ceballos, 1956:396 (in catalog of Sphecidae of Spain).

*Belomicrus italicus* A. Costa, 1871b:80, ♂. Objective synonym of *Belomicrus italicus* A. Costa, 1867.

*Oxybelus obscurus* Kohl, 1892:207, ♀. Syntypes: Greece: of Island Corfu and Austria: Niederösterreich: Melk (NHMW). Synonymized with *Belomicrus italicus* by Guiglia, 1953:141. – Kohl, 1893a:34 (Austria: Niederösterreich: Melk, misspelled Mölk); Dalla Torre, 1897:646 (in catalog of world Sphecidae); Mocsáry, 1897:81 (Hungary: Nagyvárad and Balaton-Füred); W. Schulz, 1906:210 (correction to Dalla Torre: described from Corfu and Austria). – ***As Oxybeloides obscurus***: Noskiewicz, 1922b:30 (new combination, Poland: Podole Region: Dobrowlany, now Ukraine). – ***As Belomicrus obscurus***: Šustera, 1909:34 (new combination, Czech Republic: vicinity of Praha); Morice, 1911:133 (Algeria: Biskra, Bône); Maidl, 1922:74 (Croatia); Kohl, 1923:122 (in key to world *Belomicrus*), 1924:267 (180 (in revision of world *Belomicrus*); Maidl in Schmiedeknecht, 1930:666 (in keys to Hymenoptera of North and Central Europe); Zavadil, 1932:95 (Czechoslovakia); Zavadil, Šustera, and Bat'a, 1937:174 (in catalog of Sphecidae of Czechoslovakia); Kuntze and Noskiewicz, 1938:376 (in Poland known only from Podole region, now Ukraine); Pate, 1940b:230 (affinities; bibliography; Yugoslavia: Gravosa; Tunisia: Tunis); Šnoflák, 1944a:143 (Czech Republic: serpentine steppe near Mohelno); de Beaumont, 1947b:400 (Cyprus); Šnoflák in Zavadil and

Šnoflák, 1948:41 (in key to Czechoslovakian Sphecidae); Pittioni, 1950:29 (Cyprus); Georgiou, 1977:189 (Cyprus); de Beaumont, Bytinski-Salz and Pulawski, 1973:25 (cited from Palestine by Kohl, 1923); Dollfuss, 1989:7 (type material in NHMW).

#### 41. *jaxartensis* Kazenas and Antropov

*Belomicrus jaxartensis* Kazenas and Antropov, 1994b:80, ♀, ♂. Holotype: ♀, Kazakhstan: Tartugay (ZIN). – Kazenas, 2001b:35 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:87 (geographic distribution, collecting localities in Kazakhstan).

#### 42. *karakumicus* Kazenas and Antropov

*Belomicrus karakumicus* Kazenas and Antropov: Kazenas, 1992c:27 (nomen nudum, Turkmenistan: Repetek Nature Reserve)

*Belomicrus karakumicus* Kazenas and Antropov, 1994b:81, ♀, ♂. Holotype: ♀, Turkmenistan: vicinity of Repetek (ZIN). – Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia).

#### 43. *kaszabi* Tsuneki

*Belomicrus kaszabi* Tsuneki, 1972a:173, ♂. Holotype: ♂, Mongolia: Central Aymag: Zuun-Hara (TMB). – R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae).

#### 44. *keraitus* Antropov

*Belomicrus keraitus* Antropov, 1995d:104, ♀. Holotype: ♀, Mongolia: Yolhon (ZMMU).

#### 45. *kerzhneri* Antropov

*Belomicrus kerzhneri* Antropov, 1995d:102, ♀. Holotype: ♀, Mongolia: Bayanhongor Aymag: 15 km south of Ehin-Gol (ZIN).

#### 46. *kozlovi* Antropov

*Belomicrus kozlovi* Antropov, 1995d:48, ♂. Holotype: ♂, Mongolia: 25 km north-northwest of Huvsgel (ZMMU).

#### 47. *kuznetzovi* Gussakovskij

*Belomicrus kuznetzovi* Gussakovskij, 1952:259, ♀, ♂. Syntypes: Tajikistan: Stalinabad, now Dushanbe; Uzbekistan: Alai Range: Sary-Tash, Changhir, Kammashi (ZIL). – Kazenas, 1972b:180 (Kazakhstan: Alma-Ata Oblast' vicinity of Ili); R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Esenbekova and Kazenas, 2000:43 (southeastern Kazakhstan: 5 km southeast of Taraz); Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:87 (geographic distribution, collecting localities in Kazakhstan), 2004b:105 (Kazakhstan: western Tien Shan), 2014a:136 (Kazakhstan: Karatau Mountain Range); Medetov, Embergenov, Kholmatov, Elmurodova, Rakhimov, and Tajibaeva, 2024:424 (Uzbekistan: distribution).

#### 48. *longiceps* R. Bohart

*Belomicrus longiceps* R. Bohart, 1994a:221, ♀, ♂. Holotype: ♀, USA: California: San Bernardino County: Adelanto (UCD). Paratypes: Nevada.

#### 49. *lucifer* Guichard

*Belomicrus lucifer* Guichard, 1991b:357, ♀, ♂. Holotype: ♂, Jordan: 80 km northeast of Akaba toward Amman (J. Gusenleinter coll., Linz, Austria). – Leclercq, 1993c:44 (in catalog of western Palearctic Crabronini and Oxybelini); Ljubomirov and Yildirim, 2008:245 (in catalog of Crabronidae of Turkey); Yıldırım, Ljubomirov, and Lelej, 2014:13 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:137 (in checklist of Hymenoptera of Turkey); Kaplan and Yildirim, 2021:71 (in catalog of Crabronidae of Turkey), 2023:1682 (in checklist of Sphecidae *sensu lato* of Turkey).

**50. maricopa Pate**

*Belomicrus maricopa* Pate, 1947b:54, ♀. Holotype: ♀, USA: Arizona: Maricopa County: Higley (USNM). – Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Krombein, 1979b:1652 (in catalog of North American Hymenoptera); R. Bohart, 1994b:213 (in revision of North American *Belomicrus*); Amarante, 2002:43 (in catalog of Neotropical Crabronidae).

**51. melanus R. Bohart**

*Belomicrus melanus* R. Bohart, 1994a:216, ♀, ♂. Holotype: ♂, USA: California: Tuolumne County: Sonora Pass (UCD).

**52. meridionalis Kazenas and Antropov**

*Belomicrus meridionalis* Kazenas and Antropov, 1994a:70, ♀. Holotype: ♀, Turkmenistan: Badkhyz Nature Reserve (ZMMU). – Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia).

**53. mescalero Pate**

*Belomicrus mescalero* Pate, 1940a:87, ♀. Holotype: ♀, USA: New Mexico: Otero County: Alamogordo (ANSP). – Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Krombein, 1979b:1652 (in catalog of North American Hymenoptera); R. Bohart, 1994b:201 (in revision of North American *Belomicrus*); H. Allen, 1995:15 (holotype in ANSP).

**54. meyeri Kohl**

*Belomicrus meyeri* Kohl, 1924:260, ♂ (as *Meyeri*, incorrect original capitalization). Holotype: ♂, Pakistan: Quetta (BMNH). – Kohl, 1923:122 (in key to world *Belomicrus*), 1924:260 (in revision of world *Belomicrus*); Pate, 1938:387 (in catalog of Oriental Oxybelinae), 1940b:230 (affinities, bibliography); R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Guichard, 1991b:365 (origin and depository of type); Leclercq, 1993c:44 (references to recent publications).

**55. minimus Gussakovskij**

*Belomicrus minimus* Gussakovskij, 1952:260, ♀, ♂. Syntypes: Tajikistan: Djilikul; Turkmenistan: Ashkhabad, Farab; Uzbekistan: Khiva, Kaunchi near Tashkent (ZIL). – R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Kazenas, 1992c:27 (Turkmenistan: Repetek Nature Reserve), 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia); Medetov, Embergenov, Kholmatov, Elmurodova, Rakhimov, and Tajibaeva, 2024:424 (Uzbekistan: distribution).

**56. mirificus Kohl**

*Belomicrus mirificus* Kohl, 1905:225, ♀. Syntypes: ♀, Ethiopia: no specific locality (NHMW). – Kohl, 1923:117 (in key to world *Belomicrus*), 194 (180 (in revision of world *Belomicrus*); Arnold, 1927:70 (original description translated into English), 1930:14 (in checklist of Afrotropical Sphecidae); Scott in Arnold, 1933a:369 (described from Ethiopia); Pate, 1940b:244 (characteristics of species); Pulawski, 1964:147 (Egypt: Aswan; redescription of ♀, description of ♂); R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Dollfuss, 1989:7 (type material in NHMW); Guichard, 1991b:364 (Sudan: Wadi Medani; diagnostic characters); Leclercq, 1993c:44 (in catalog of western Palearctic Crabronini and Oxybelini; reference to Pulawski, 1964); Roche, 2007a:101 and 2007b:6 (in checklist of Egyptian Ampulicidae, Sphecidae, and Crabronidae).

**57. modestus (Kohl)**

*Oxybelus modestus* Kohl, 1892:206, ♂, ♀. Syntypes: Armenia or Azerbaijan: Arax River Valley (NHMW). – Dalla Torre, 1897:644 (in catalog of world Sphecidae). – **As *Belomicrus modestus***: Kohl, 1923:121 (new combination, in key to world *Belomicrus*), 200 (in revision of world *Belomicrus*); Pate, 1940b:230 (affinities); de Beaumont,

1969:94 (Turkey; differences between *modestus* and *wouroukatte*); R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Dollfuss, 1989:7 (type material in NHMW); Leclercq, 1993c:44 (in catalog of western Palearctic Crabronini and Oxybelini; reference to de Beaumont, 1967a, not included by Guichard, 1991); Ljubomirov and Yildirim, 2008:246 (in catalog of Crabronidae of Turkey); Yildirim, Ljubomirov, and Lelej, 2014:13 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:137 (in checklist of Hymenoptera of Turkey); Kaplan and Yildirim, 2021:71 (in catalog of Crabronidae of Turkey), 2023:1682 (in checklist of Sphecidae *sensu lato* of Turkey).

#### 58. *mongolicus* Tsuneki

*Belomicrus mongolicus* Tsuneki, 1972a:175, ♂. Holotype: ♂, Mongolia: Hövsgöl Aymag: Somon Birenhaan (TMB). – R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae).

#### 59. *mono* Pate

*Belomicrus serrano mono* Pate, 1940a:46, ♀. Holotype: ♀, USA: California: Mono County: Sherwin Hill 5 mi. north of Round Valley (ANSP). – Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American Hymenoptera); H. Allen, 1995:15 (holotype in ANSP). – **As *Belomicrus mono***: R. Bohart in R. Bohart and Menke, 1976:363 (new status, in checklist of world Sphecidae); Krombein, 1979b:1652 (in catalog of North American Hymenoptera); R. Bohart, 1994b:216 (in revision of North American *Belomicrus*).

#### 60. *montanus* Kazenas and Antropov

*Belomicrus montanus* Kazenas and Antropov, 1994a:72, ♀, ♂. Holotype: ♀, Tajikistan: Ziddy in Varzob Range (ZMMU). – Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia).

#### 61. *multifasciatus* Tsuneki

*Belomicrus multifasciatus* Tsuneki, 1972a:171, ♂, ♀. Holotype: ♂, Mongolia: East Gobi Aymag: 40 km northwest of Hara-Eireg (TMB). – R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Esenbekova and Kazenas, 2000:42 (southeastern Kazakhstan: 8 km south of Borandysu); Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:88 (geographic distribution, collecting localities in Kazakhstan); 2013b:496 (southeastern Kazakhstan: Borandysu, 8 km south and 30 km east of Chilik); Kochetkov and Korsun, 2025:5 (Russia: Zabaikalskiy Kray: Dauriskiy Nature Reserve).

#### 62. *multimaculatus* Kazenas and Antropov

*Belomicrus multimaculatus* Kazenas and Antropov: Kazenas, 1992c:27 (nomen nudum, Turkmenistan: Repetek Nature Reserve).

*Belomicrus multimaculatus* Kazenas and Antropov, 1994b:82, ♀. Holotype: ♀, Turkmenistan: Repetek (ZMMU). – Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia).

#### 63. *nartshukae* Antropov

*Belomicrus nartshukae* Antropov, 1995d:50, ♀. Holotype: ♀, Kazakhstan: eastern Karatau (ZMMU).

#### 64. *nasutus* Antropov

*Belomicrus nasutus* Antropov, 1995d:45, ♀. Holotype: ♀, Uzbekistan: Bukhara Oblast': 25 km southeast of Kagan (ZMMU). – Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia); Medetov, Embergenov, Kholmatov, Elmurodova, Rakhimov, and Tajibaeva, 2024:424 (Uzbekistan: distribution).

#### 65. *nigrinus* Kazenas

*Belomicrus nigrinus* Kazenas, 1971:159, ♀, ♂ (spelled *nirginus* on p. 159, but *nigrinus* on pp. 156 and 157). Holotype: ♀, Kazakhstan: Alma-Ata Oblast': Charyn River valley: Kurtogay (ZIL). – Kazenas, 1971:161 (in Kazakhstan found only in southeastern mountains); R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae, as *nirginus*); Esenbekova and Kazenas, 2000:42 (southeastern Kazakhstan: 12-15 km west-southwest of Alma Ata, 15

km southeast of Borandysu); Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia); Kazenas and Esenbekova, 2001:134 (Kazakhstan: Almatinskiy Nature Reserve); Kazenas, 2002a:88 (geographic distribution, collecting localities in Kazakhstan), 2004b:106 (Kazakhstan: western Tien Shan), 2008a:103 (southeastern Kazakhstan: 15 km southeast of Borandysu in Ili River valley, Kurtogay in Charyn River valley, near Alma Ata, 12-15 km west-southwest of Alma Ata, 25 km south of village Turgen'); Medetov, Embergenov, Kholmatov, Elmurodova, Rakhimov, and Tajibaeva, 2024:424 (Uzbekistan: distribution).

## 66. *odontophorus* (Kohl)

*Oxybelus odontophorus* Kohl, 1892:205, ♀. Holotype or syntypes: ♀, Armenia or Azerbaijan: Arax River Valley (NHMW). – Dalla Torre, 1897:646 (in catalog of world Sphecidae). – **As *Belomicrus odontophorus***: Morice, 1911:133 (new combination, Algeria: Biskra); Kohl, 1923:119 (in key to world *Belomicrus*), 190 (in revision of world *Belomicrus*; Algeria: Biskra); Bischoff, 1933: (Morocco: Marrakech); Pate, 1940b:232 (affinities; bibliography); de Beaumont, 1957a:159 (relationship to *Belomicrus caesariensis*); R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Guichard, 1991b:365 (Algeria, Tunisia, Morocco, Mali, Turkey); Kazenas, 1992c:27 (Turkmenistan: Repetek Nature Reserve); Bitsch and Leclercq, 1993:236 (in revision of western European Crabroninae); Leclercq, 1993c:44 (in catalog of western Palearctic Crabronini and Oxybelini; Algeria: 10 km Tamanrasset-Assekrem road); Gayubo, Asís, and Tormos, 1998b: 14 (in review of Spanish *Belomicrus*); Minoranskiy and Shkuratov, 1996:82 (Russia: Rostov Oblast'); Gonzáles, Gayubo, and Torres, 1998:74, 75 (Spain: Valladolid Province), 1999:355 (Spain: Valladolid: Viana de Cega); Esenbekova and Kazenas, 2000:42 (southeastern Kazakhstan: near Kapchagay); Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:88 (geographic distribution, collecting localities in Kazakhstan), 2004d:32 (Kazakhstan: Khar'kino); Shkuratov, 2004a:81 (Russia: Rostov Oblast': Beglitskaya kosa); Roche, 2007a:101 and 2007b:6 (in checklist of Egyptian Ampulicidae, Sphecidae, and Crabronidae, first record from Egypt: 50-85 km east of Maadi); Ljubomirov and Yildirim, 2008:246 (in catalog of Crabronidae of Turkey); Baños-Picón, Asís, Gayubo, and Tormos, 2009:312 (Spain: frequency of specimens collected with hand nets and Malaise traps); Gayubo, González, Tormos, and Asís, 2009:364 (Spain: Valladolid: Reserva Natural Riberas de Castronuño-Vega del Duero); González, Gayubo, Asís, and Tormos, 2009:624 (Spain: Salamanca and Zamora provinces: Arribes del Duero Natural Park); Cruz-Sánchez, Asís, Gayubo, Tormos, and González, 2011:499 (Spain: Salamanca and Zamora provinces: Arribes del Duero Natural Park: effects of wildfire), 501 (exclusive species of burned areas); Kazenas, 2013b:496 (southeastern Kazakhstan: everywhere in Ili River valley); Yıldırım, Ljubomirov, and Lelej, 2014:13 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:137 (in checklist of Hymenoptera of Turkey); Antropov, 2017b:242 (in catalog of Crabroninae of Russia); Ben Khedher, Yildirim, and Braham, 2020a:103 (Tunisia: Kasserine, Kebili, and Tataouine provinces); Cross, Baldock, and Wood, 2021:52 (in catalog of Sphecidae *sensu lato* of Portugal); Kaplan and Yildirim, 2021:71 (in catalog of Crabronidae of Turkey); Leclercq, Bitsch, K. Schmidt, and Antropov in Bitsch, Antropov, Gayubo, Leclercq, Schmid-Egger, K. Schmidt, and Straka, 2021:327 (in revision of Sphecidae *sensu lato* of Europe); Schmid-Egger, 2021:1258 (in key to *Belomicrus* and *Oxybelomorpha* of northwestern Africa and Spain), 1264 (Morocco: several locality records, subspecies not recognized); Kaplan and Yildirim, 2023:1682 (in checklist of Sphecidae *sensu lato* of Turkey).

*Belomicrus caesariensis* Pate, 1931a:113, ♂, ♀. Holotype: ♂, Algeria: Oran: La Guetna (Cornell Univ.). Synonymized with *Belomicrus odontophorus* by Guichard, 1991b:365. – Pate, 1940b:232 (affinities; bibliography); de Beaumont, 1957a:159 (taxonomic history, relationship to *Belomicrus odontophorus*); Mingo Perez, 1966:106 (Spain, Portugal); R. Bohart and Menke, 1976:263 (in checklist of world Sphecidae); Gayubo, 1984c:373 (Portugal: Algarve Province: Odeleite); Gayubo and Sanza, 1986:56 (Spain: Burgos); Dollfuss, 1989:7 (paratype in NHMW); Baños-Picón, Asís, Gayubo, and Tormos, 2009:312 (Spain: frequency of specimens collected with hand nets and Malaise traps).

**ssp. maurusius de Beaumont**

*Belomicrus caesariensis maurusius* de Beaumont, 1957a:161, ♀, ♂. Holotype: ♂, Morocco: Marrakech (Lausanne). – R. Bohart and Menke, 1976:263 (in checklist of world Sphecidae).

**ssp. oceanicus de Beaumont**

*Belomicrus caesariensis oceanicus* de Beaumont, 1957a:160, ♂, ♀. Holotype: ♀, Morocco: Mehdia near Kenitra (Lausanne). – R. Bohart and Menke, 1976:263 (in checklist of world Sphecidae).

**ssp. saharicus de Beaumont**

*Belomicrus caesariensis saharicus* de Beaumont, 1958b:69, ♀, ♂. Holotype: ♀, Algeria: Tassili des Ajjer: Aharhar (MNHN). – R. Bohart and Menke, 1976:263 (in checklist of world Sphecidae).

**67. opacus Kazenas**

*Belomicrus opacus* Kazenas, 1995b:704, ♂. Holotype: ♂, Kazakhstan: 25 km southwest of Lepsy (ZIN). – Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:88 (geographic distribution, collecting localities in Kazakhstan), 2008a:103 (southeastern Kazakhstan: 25 km southwest of Lepsy).

**68. oraibi R. Bohart**

*Belomicrus oraibi* R. Bohart, 1994a:221, ♀, ♂. Holotype: ♀, USA: Arizona: Navajo County: Oraibi (UCD).

**69. ottomanus Guichard**

*Belomicrus ottomanus* Guichard, 1991b:356, ♀, ♂. Holotype: ♀, Turkey: Yesilhisar (BMNH). – Leclercq, 1993c:45 (in catalog of western Palearctic Crabronini and Oxybelini); Ljubomirov and Yildirim, 2008:246 (in catalog of Crabronidae of Turkey); Yildirim, Ljubomirov, and Lelej, 2014:13 (distribution in Turkey by biogeographic provinces), 19 (is an endemic of Turkey); Koçak and Kemal, 2015:138 (in checklist of Hymenoptera of Turkey); Kaplan and Yildirim, 2021:71 (in catalog of Crabronidae of Turkey), 2023:1682 (in checklist of Sphecidae *sensu lato* of Turkey).

**70. pachappa Pate**

*Belomicrus pachappa* Pate, 1940a:73, ♀. Holotype: ♀, USA: California: Riverside County: Riverside (ANSP). – Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Krombein, 1979b:1652 (in catalog of North American Hymenoptera); R. Bohart, 1994b:202 (in revision of North American *Belomicrus*); H. Allen, 1995:15 (holotype in ANSP).

**71. pallidus R. Bohart**

*Belomicrus pallidus* R. Bohart, 1994a:222, ♂. Holotype: ♂, USA: California: San Diego County: Borrego (CAS).

**72. panfilovi Antropov**

*Belomicrus panfilovi* Antropov, 1995d:100, ♀, ♂. Holotype: ♀, Turkmenistan: 40 km south of Nichka (ZMMU). Paratype: Kazakhstan: Mangyshlak Oblast'. – Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:88 (geographic distribution).

**73. parvulus (Radoszkowski)**

*Oxybelus parvulus* Radoszkowski, 1877:70, ♀, ♂. Syntypes: ♀, ♂: Uzbekistan: Chardara; Kazakhstan: Kyzil-Kum: no specific locality; and European Russia: Orenburg Oblast': Spassk (ZMMU). – Kohl, 1884b:114 (in list of world *Oxybelus*); Radoszkowski, 1892:592 (male genitalia); Dalla Torre, 1897:646 (in catalog of world Sphecidae). – **As *Belomicrus parvulus***: Kohl, 1923:121 (new combination, in key to world *Belomicrus*), 198 (in revision of world *Belomicrus*); Pate, 1940b:229 (affinities); R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:88 (geographic distribution,

collecting localities in Kazakhstan); Antropov, 2017b:242 (in catalog of Crabroninae of Russia); Medetov, Embergenov, Kholmatov, Elmurodova, Rakhimov, and Tajibaeva, 2024:424 (Uzbekistan: distribution).

*Belomicrus femoralis* Kohl, 1899:314, ♀. Holotype: ♀, Turkmenia: Balkhan (NHMW). Synonymized with *Belomicrus parvulus* by Kohl, 1923:198.

#### 74. *penuti* Pate

*Belomicrus forbesii penuti* Pate, 1940a:27, ♀, ♂. Holotype: ♂, USA: California: Mariposa County: Yosemite Valley in Yosemite National Park (ANSP). – Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American Hymenoptera); H. Allen, 1995:15 (holotype in ANSP). – **As *Belomicrus penuti***: R. Bohart and Menke, 1976:363 (new status, in checklist of world Sphecidae, prey); Krombein, 1979b:1652 (in catalog of North American Hymenoptera); R. Bohart, 1994b:211 (in revision of North American *Belomicrus*).

#### 75. *pharaonum* Pulawski

*Belomicrus pharaonum* Pulawski, 1964:151, ♂. Holotype: ♂, Egypt: Abu Rawash near Cairo (originally W.J. Pulawski coll., now CAS). – Leclercq, 1993c:45 (in catalog of western Palearctic Crabronini and Oxybelini; not listed by Bohart and Menke, 1976 or Guichard, 1991b); Roche, 2007a:101 and 2007b:6 (in checklist of Egyptian Ampulicidae, Sphecidae, and Crabronidae).

#### 76. *potawatomi*. Pate

*Belomicrus potawatomi*. Pate, 1947b:57, ♀. Holotype: ♀, USA: Iowa: Woodbury County: Sioux City (USNM). – Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:364 (in checklist of world Sphecidae); Krombein, 1979b:1652 (in catalog of North American Hymenoptera); R. Bohart, 1994b:202 (in revision of North American *Belomicrus*).

#### 77. *powelli* R. Bohart

*Belomicrus powelli* R. Bohart, 1994a:211, ♀, ♂. Holotype: ♀, USA: California: San Luis Obispo County: 12 mi. north-east of Pozo (CAS).

#### 78. *pusillus* Antropov

*Belomicrus pusillus* Antropov, 1995d:101, ♀. Holotype: ♀, Kazakhstan: Tartugai (ZIN). – Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:88 (geographic distribution).

#### 79. *quemaya* Pate

*Belomicrus quemaya* Pate, 1940a:47, ♂. Holotype: ♂, USA: California: Riverside County: Palm Springs (ANSP). – Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American Hymenoptera); R. Bohart in R. Bohart and Menke, 1976:263 (as new synonym of *Belomicrus franciscus*); R. Bohart, 1994b:217 (as valid species, in revision of North American *Belomicrus*); H. Allen, 1995:15 (holotype in ANSP); Hook, 1998:251 (first record from New Mexico: Doña Ana County: Las Cruces); Amarante, 2002:43 (in catalog of Neotropical Crabronidae).

*Belomicrus jurumpa* Pate, 1940a:53, ♀, ♂. Holotype: ♂, USA: California: Riverside County: Gavilan (ANSP). Synonymized with *Belomicrus quemaya* by R. Bohart, 1994b:217. – Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Krombein, 1979b:1651 (in catalog of North American Hymenoptera).

#### 80. *querecho* Pate

*Belomicrus querecho* Pate, 1940a:36, ♂. Holotype: ♂, USA: New Mexico: Otero County: Alamogordo (ANSP). – Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:363 (in checklist of world Sphecidae); Krombein, 1979b:1652 (in catalog of North American Hymenoptera); R. Bohart, 1994b:211 (in revision of North American *Belomicrus*).

**81. radoszkowskyi (Dalla Torre)**

*Oxybeloides fasciatus* Radoszkowski, 1877:68, ♀, ♂, secondary junior homonym of *Oxybelus fasciatus* Dahlbom, 1845. Syntypes: Kazakhstan: Chardara; Kyzil-Kum: no specific locality (ZMMU). – Kohl, 1884b:116 (in list of world *Oxybelus*). – **As *Belomicrus fasciatus***: Kohl, 1923:117 (new combination, in key to world *Belomicrus*), 182 (in revision of world *Belomicrus*); Pate 1940b:243 (affinities, synonymy).

*Oxybelus radoszkowskyi* Dalla Torre, 1897:647. Substitute name for *Oxybelus fasciatus* (Radoszkowski). – **As *Belomicrus radoszkowskyi***: R. Bohart and Menke, 1976:264 (new combination, in checklist of world Sphecidae); Kazenas, 1992c:27 (Turkmenistan: Repetek Nature Reserve); Esenbekova and Kazenas, 2000:42 (southeast Kazakhstan: 10 km northeast of Kapchagay); Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:88 (geographic distribution, collecting localities in Kazakhstan, as *radoszkowskii*).

**82. rasmonti Schmid-Egger**

*Belomicrus rasmonti* Schmid-Egger, 2021:1264, ♀. Holotype: ♀, Morocco: Oueled Sghir at 32.8226°N 7.6221°E (ZSBS) – Schmid-Egger, 2021:1258 (in key to *Belomicrus* and *Oxybelomorpha* of northwestern Africa and Spain).

**83. repetekus Kazenas and Antropov**

*Belomicrus repetekus* Kazenas and Antropov, 1994b:84, ♀, ♂. Holotype: ♀, Turkmenistan: Repetek (ZIN). – Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia).

**84. rufiscutellaris Kazenas and Antropov**

*Belomicrus rufiscutellaris* Kazenas and Antropov, 1994b:85, ♂. Holotype: ♂, Mongolia: Kobdos (= Hövsgöl?) Aymag: Yelhon 20 km southeast of Altay on Bodonchi (ZIN).

**85. schulthessii Kohl**

*Belomicrus schulthessii* Kohl, 1924:261, ♂ (as *Schulthessii*, incorrect original capitalization). Holotype: ♂, Turkmenistan: Bala-Ishem in Nebit-Dagh area (NHMW). – Kohl, 1923:122 (in key to world *Belomicrus*), 261 (in revision of world *Belomicrus*); Pate, 1940b:240 (affinities; bibliography); R. Bohart and Menke, 1976:364 (in checklist of world Sphecidae); Dollfuss, 1989:7 (type material in NHMW); Guichard, 1991b:365 (Morocco, Cyrenaica, Saudi Arabia, United Arab Emirates, Tunisia); Leclercq, 1993c:45 (in catalog of western Palearctic Crabronini and *Oxybelini*; geographic distribution); Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia); Schmid-Egger, 2011b:495 (in key to *Belomicrus* and *Guichardus* of Arabian Peninsula), 495 (United Arab Emirates: Um al-Quwain), 496 (color photograph); Gadallah, Al Dhafer, Aldryhim, Fadl, and Elgharbawy, 2013:350 (in new catalog of Sphecidae of Saudi Arabia); Schmid-Egger, 2014:536 (United Arab Emirates); Samin, Bagriacik, and Monaem, 2015:195 (first record from Iran: Golestan: Bandar-Torkman); Antropov, 2017b:242 (in catalog of Crabroninae of Russia); Jahantigh, Rakhshani, Mokhtari, and Ramroodi, 2017:52 (Iran: known from Golestan Province); Ben Khedher, Yildirim, Braham, and Chaaban, 2019:191 (known from Tunisia: Tozeur Province); Gadallah, 2020b:33 (in list of aculeate wasps of Arabian Peninsula).

**86. sechi Pate**

*Belomicrus sechi* Pate, 1940a:60, ♂. Holotype: ♂, USA: California: Riverside County: Colorado Desert 6 mi. north of Palm Springs (ANSP). – Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:364 (in checklist of world Sphecidae); Krombein, 1979b:1652 (in catalog of North American Hymenoptera); R. Bohart, 1994b:203 (in revision of North American *Belomicrus*); H. Allen, 1995:15 (holotype in ANSP).

**87. serrano Pate**

*Belomicrus serrano* Pate, 1940a:42, ♀, ♂. Holotype: ♂, California: Los Angeles County: Tujunga Wash in San Gabriel Mountains (ANSP). – Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American

Hymenoptera, as *serrano serrano*); R. Bohart and Menke, 1976:364 (in checklist of world Sphecidae); Krombein, 1979b:1652 (in catalog of North American Hymenoptera); R. Bohart, 1994b:217 (in revision of North American *Belomicrus*); H. Allen, 1995:15 (holotype in ANSP).

#### 88. *shatalkini* Antropov

*Belomicrus shatalkini* Antropov, 1995d:47, ♀, ♂. Holotype: ♀, Turkmenistan: Badkhyz: urochishche Yeroyulanduz (ZMMU). – Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia).

#### 89. *shestakovi* Kazenas and Antropov

*Belomicrus shestakovi* Kazenas and Antropov, 1994a:74, ♀, ♂. Holotype: ♀, Turkmenistan: Uch-Adji (ZIN). Paratype: Uzbekistan. – Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia); Medetov, Embergenov, Kholmatorov, Elmurodova, Rakhimov, and Tajibaeva, 2024:424 (Uzbekistan: distribution).

#### 90. *siccatus* R. Bohart

*Belomicrus siccatus* R. Bohart, 1994a:223, ♀. Holotype: ♀, USA: California: Riverside County: Thousand Palms Canyon (UCD).

#### 91. *sierrae* R. Bohart

*Belomicrus sierrae* R. Bohart, 1994a:212, ♀, ♂. Holotype: ♀, USA: ♀, USA: California: Nevada County: Sagehen Creek (UCD).

#### 92. *stigma* Kazenas and Antropov

*Belomicrus stigma* Kazenas and Antropov, 1994b:86, ♀, ♂. Holotype: ♀, Turkmenistan: Repetek (ZMMU). – Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia).

#### 93. *subborealis* Antropov

*Belomicrus subborealis* Antropov, 1995d:97, ♀. Holotype: ♀, Tajikistan: Anzob Pass (ZMMU). – Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia).

#### 94. *subfasciatus* Antropov

*Belomicrus subfasciatus* Antropov, 1995d:51, ♀. Holotype: ♀, Turkmenistan: Farab (ZIN). – Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia).

#### 95. *texensis* R. Bohart

*Belomicrus texensis* R. Bohart, 1994a:213, ♀, ♂. Holotype: ♀, USA: Texas: Kleberg County: Kingsville, South Pasture (UCD).

#### 96. *timberlakei* Pate

*Belomicrus timberlakei* Pate, 1940a:91, ♂. Holotype: ♂, USA: California: Riverside County: Riverside (ANSP). – Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:364 (in checklist of world Sphecidae); Krombein, 1979b:1652 (in catalog of North American Hymenoptera); R. Bohart, 1994b:223 (in revision of North American *Belomicrus*); H. Allen, 1995:15 (holotype in ANSP).

#### 97. *tricolor* Kazenas

*Belomicrus tricolor* Kazenas, 1991b:145, ♀, ♂. Holotype: ♀, southeastern Kazakhstan: Ili River 15 km east of Ayak-Kalkan (ZIN). – Esenbekova and Kazenas, 2000:43 (southeastern Kazakhstan: no specific locality); Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:89 (geographic distribution, collecting localities in Kazakhstan), 2008a:103 (southeastern Kazakhstan: 35 km northeast of Chilik in Ili River valley); Antropov, 2017b:242 (in catalog of Crabroninae of Russia); Mokrousov, 2017d:59 (South-East of European Russia: no specific locality).

**98. tridentifer Kazenas**

*Belomicrus tridentifer* Kazenas, 1993a:189, ♀. Holotype: ♀, Eastern Kazakhstan: 25 km southwest of Lepsy station (ZIN). – Kazenas, 2001b:36 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:89 (geographic distribution, collecting localities in Kazakhstan), 2008a:103 (southeastern Kazakhstan: 25 km southwest of Lepsy).

**99. tuktum Pate**

*Belomicrus tuktum* Pate, 1940a:84, ♂. Holotype: ♂, USA: California: Riverside County: Colorado Desert 5 mi. east of Edom (ANSP). – Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:364 (in checklist of world Sphecidae); Krombein, 1979b:1652 (in catalog of North American Hymenoptera); R. Bohart, 1994b:223 (in revision of North American *Belomicrus*); H. Allen, 1995:15 (holotype in ANSP).

**100. turkmenicus Kazenas and Antropov**

*Belomicrus turkmenicus* Kazenas and Antropov, 1994a:73, ♀, ♂. Holotype: ♀, Turkmenistan: 5 km north of Firuza (ZMMU). Paratypes: Tajikistan, Uzbekistan. – Medetov, Embergenov, Kholmatov, Elmurodova, Rakhimov, and Tajibaeva, 2024:424 (Uzbekistan: distribution).

**101. ussuriensis Antropov**

*Belomicrus ussuriensis* Antropov, 1993d:27, ♂. Holotype: ♂, Russia: Primorskiy Kray: 25 km south of Slavyanka (ZMMU). – Nemkov, 1998c:686 (in supplementary key to Russian Far East *Belomicrus*); Nemkov, 2008b:20 (in catalog of Crabronidae of Asiatic Russia), 2009a:65 (is an endemic of Russian Far East), 2009b:90 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia), 2012c:440 (in catalog of Crabronidae of Russian Far East); Antropov, 2017b:242 (in catalog of Crabroninae of Russia).

**102. vanyume Pate**

*Belomicrus vanyume* Pate, 1940a:17, ♀. Holotype: ♀, USA: California: San Bernardino County: Victorville (ANSP). – Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:364 (in checklist of world Sphecidae); Krombein, 1979b:1652 (in catalog of North American Hymenoptera); R. Bohart, 1994b:214 (in revision of North American *Belomicrus*); H. Allen, 1995:15 (holotype in ANSP).

**103. vierecki Pate**

*Belomicrus vierecki* Pate, 1940a:56, ♀, ♂. Holotype: ♂, USA: New Mexico: Otero County: Alamogordo (ANSP). Paratypes: California. – Burks in Muesebeck, Krombein, and Townes, 1951:1030 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:264 (in checklist of world Sphecidae); Krombein, 1979b:1652 (in catalog of North American Hymenoptera); R. Bohart, 1994b:224 (in revision of North American *Belomicrus*); H. Allen, 1995:15 (holotype in ANSP); Amarante, 2002:43 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:663 (in checklist of Mexican Sphecidae).

**104. wouroukatte de Beaumont**

*Belomicrus wouroukatte* de Beaumont, 1967a:366, ♀. Holotype: ♀, Turkey: Kirsehir: Kaman (Lausanne). – de Beaumont, 1969:94 (Turkey); R. Bohart and Menke, 1976:264 (in checklist of world Sphecidae); Guichard, 1991b:364 (discussion of characters); Leclercq, 1993c:45 (:44 (in catalog of western Palearctic Crabronini and Oxybelini); Ljubomirov and Yildirim, 2008:247 (in catalog of Crabronidae of Turkey); Yildirim, Ljubomirov, and Lelej, 2014:13 (distribution in Turkey by biogeographic provinces), 19 (is an endemic of Turkey); Koçak and Kemal, 2015:138 (in checklist of Hymenoptera of Turkey); Kaplan and Yildirim, 2021:71 (in catalog of Crabronidae of Turkey), 2023:1683 (in checklist of Sphecidae *sensu lato* of Turkey).

**sp.**

de Beaumont, 1961b:276 (Afghanistan), 1967a:368 (Turkey), 1969:94 (Turkey); Guichard, 1980:228 (Oman); Roche, 1981:3 (in checklist of Sphecidae of United Arab Emirates); Al-Houty, 1989:158 (Kuwait: Al-Wafra); Guichard 1991b:364 (sp. aff. *guelmimensis*), 367 (Sinai and Turkey); Blades and Maier, 1996:72 (Canada: British Columbia: Osoyoos–Mount Kobau area at 119°40'W 49°05'N); S. Gess, 1996:277, 282, 285 (floral records); S. Gess and F. Gess, 2003:101 (Namibia, South Africa: visiting flowers of *Wahlenbergia* sp., Campanulaceae, *Athanasia* sp., *Cotula* sp., *Helichrysum* sp., and *Pentzia suffruticosa* (L.) Hutch. ex Merxm., Asteraceae, *Coelanthum grandiflorum* E. Mey. ex Fenzl., Scrophulariaceae, *Deverra denudata* (Viv.) Pfisterer and Podl., Apiaceae, and *Limeum sulcatum* (Klotsch) Hutch.); Ljubomirov and Yildirim, 2008:247 (in catalog of Crabronidae of Turkey); Dunford, Turbyville, and Leavengood, 2014:9 (listed as medically important in Afghanistan); Gadallah, 2020b:34 (in list of aculeate wasps of Arabian Peninsula).

**NOMEN NUDUM IN BELOMICRUS**

*Belomicrus bucharicus* Kazenas and Antropov: Kazenas, 1992c:27 (Turkmenistan: Repetek Nature Reserve).

**SPECIES DESCRIBED IN BELOMICRUS AND TRANSFERRED TO OTHER GENERA**

*bicornutus* Arnold, 1927 = *Nototis*  
*braunsii* Kohl, 1923 = *Oxybelomorpha*  
*crassus* Arnold, 1936 = *Belarnoldus*  
*dromedarius* Guichard, 1991 = *Guichardus*  
*ferrieri* Kohl, 1924 = *Belokohlus*  
*funestus* Arnold = *Oxybelomorpha*  
*kohlianus* von Schulthess, 1926 = *Oxybelomorpha*  
*maroccanus* de Beaumont, 1957 = *Oxybelomorpha*  
*minutissimus* Arnold, 1936 = *Belomicrinus*  
*moricei* Kohl, 1923 = *Oxybelomorpha*  
*patei* de Beaumont, 1950 = *Oxybelomorpha*  
*persa* Gussakovskij, 1933 = *Oxybelomorpha*  
*rufiventris* Arnold, 1936 = *Oxybelomorpha*  
*rhodesianus* Arnold, 1927 = *Oxybelomorpha*  
*rufiventris* Arnold, 1936 = *Oxybelomorpha*  
*sordidus* Arnold, 1927 = *Oxybelomorpha*  
*steckii* Kohl, 1923 = *Oxybelomorpha*  
*turneri* Arnold, 1927 = *Oxybelomorpha*  
*waterstoni* Kohl, 1924 = *Oxybelomorpha*  
*zimini* Gussakovskij, 1952 = *Pseudomicroides*

**SPECIES RECENTLY REESTABLISHED IN OXYBELOMORPHA**

*kohlui* Brauns, 1897