

Last updated: 28 May 2018

MIMUMESA

Mimumesa Malloch, 1933:16. Type species: *Psen niger* Packard, 1867, by original designation.

Revisions: Budrys, 1990 (USSR).

Keys: Budrys, 2001:188 (*littoralis* and *unicolor*).

Review of known biology: Kazenas, 2001b:116.

1. *atratina* (F. Morawitz)

Mimesa atratina F. Morawitz, 1891:206, ♂. Holotype or syntypes: ♂, European Kazakhstan: Mt. Bogdo (ZIN). – Dalla Torre, 1897:351 (in catalog of world Hymenoptera); Merisuo, 1933c:73 (first record from Finland: Turku), 75 (in key to *Mimumesa* of Finland); Jansson, 1934:291 (Sweden); Forsius in Forsius and Hellén, 1935:11 (in checklist of Hymenoptera of Finland); Hellén, 1936:67 (recorded from Finland); Blüthgen, 1944:30 (Germany: Mittelberg in Allgäu and Naumburg); Spooner, 1948:166 (in revision of British *Psenini*); Leininger, 1951:118 (Germany: Baden-Württemberg: Karlsruhe); Blüthgen, 1952a:127 (Germany: Bayern: Augsburg and Mittelberg); Hellén, 1955a:123 (Finland: nine localities, recognition characters); Wolf, 1959b:26 (Germany: Nassau); Mingo Pérez, 1965:167 (in revision of Spanish *Psenini*), 1968:83 (locality records from Spain), 86 (in checklist of Iberian *Psenini*); Babiý, 1970:20 (Austria: Land Salzburg, as *atratinus*); Mityaev, Matesova, Kulenova, Kazenas, and Zhdanko, 1980:116 (Russia: Siberia: Altayskiy Kray: basin of Aley River, as *atratinus*). – **As *Psen atratinus***: de Beaumont, 1937:52 (new combination, original description copied); Gussakovskij, 1937:659 (in revision of Palearctic *Psen*, in subgenus *Mimesa*); de Beaumont, 1941a:328 (the valid name for his *belgicus* of 1937); Zavadil in Zavadil and Šnoflák, 1948:142 (in key to Sphecidae of Czechoslovakia); van Lith, 1949:141 and 143 (in key to European *Mimumesa*), 146 (distribution in Netherlands); Noskiewicz and Chudoba, 1949:420 (Poland: Dolny Śląsk: Sułów, Wrocław; Górny Śląsk: Bytom area); Fahlander, 1954:253 (Sweden: Gästrikland Region); Grandi, 1954:241 (Italy); nec Tsunekí, 1954c:53 (= *Psen atratinus longulus*); Steiner, 1955:143 (France: Dordogne); Bajári, 1957a:72 (in key to Hungarian Sphecidae); Grandi, 1957:390 (Italy: Abruzzi); Benno, 1958b:17 (in review of Dutch Sphecidae); de Beaumont, 1958c:207 (Swiss National Park); Noskiewicz and Puławski, 1960:50, 51 (in key to Polish Sphecidae); Valkeila, 1962b:67 (southwestern Finland); de Beaumont, 1964c:91 (in Sphecid Fauna of Switzerland); Benno, 1967:38 (in checklist of Sphecidae of Netherlands); de Beaumont, 1967a:339 (Turkey); Gauss, 1967:555 (Germany: Baden-Württemberg); Niedl and Deneš, 1967:80 (Czech Republic: Třeboň area); Lefeber, 1969c:234 (Netherlands: St. Pietersberg = Montagne Saint Pierre); Schmidt, 1969:164 (Germany: Rhein-Main area: Gremberger Wäldchen near Köln); Haeseler, 1970:74 (Germany: Schleswig-Holstein: Lauenburg); Oehlke, 1970:727 (Democratic Germany); Tumšs, 1970:73 (first record from Latvia); Dathe, 1971:234 (Germany: Berlin Zoological Garden; phenology); Kazenas, 1971:161 (in Kazakhstan found only in southeastern mountains); Lefeber, 1971a:17 (Netherlands: Venlo; Belgium: Bassenge); Stritt, 1971a:104 (Germany: Baden-Württemberg: Karlsruhe); Vegter, 1971:230 (Netherlands: Drenthe Province); Balthasar, 1972:247 (in Sphecid Fauna of Czechoslovakia); Kofler, 1972:108 (Austria: eastern Tirol); Haeseler, 1973:54 (Germany: Schleswig-Holstein: Segrahner Berg 12 km SE Mölln); Wolf, 1973:41 (Germany: Siegerländer Hüttensand); Simon Thomas, 1974:57 (Netherlands: Limburg: Tienray); Haeseler, 1974:124 (Germany: Schleswig-Holstein); Leclercq, 1974b:193 (Belgium and France: locality records); Eck, 1976:91 (Democratic Germany); Leclercq, Gaspar, Lajoinie, and Thirion, 1976:178 (Belgium: Chaumont-Gistoux); Wolf, 1976:30 (Germany: Nordrhein-Westfalen: Victoria Mine near Littfeld); Haeseler, 1977a:25 (northwest Germany); Kolesnikov, 1977:319 (Russia: Bryansk Oblast'); Kazenas, 1978b:149, 150 (in key to Sphecidae of Kazakhstan and Central Asia); Marion, 1978:89 (France: Nièvre Department); Pulawski, 1978:233, 236 (in key to Sphecidae of European part of former USSR); Benedek, 1979:232 (Hungary: Bakony Hills); Richards,

1980:62 (in key to Sphecidae of British Isles); Westrich, 1980:630 (Germany: Baden-Württemberg: Tübingen area); Felton, 1981:83 (Great Britain: Kent); Donath, 1982:214 (Germany: Cottbus Bezirk); Kowalczyk, 1988b:64 (Poland: environs of Łódź); Pádr *in* Šedivý, 1989a:168 (in checklist of Czechoslovakian Sphecidae); Pankevich, Belavskaya, Molchanova, Shlyakhtenok, and Blinov, 1989:96 (Belarus: Berezinskiy Nature Reserve); Kowalczyk, 1990:290 (Poland: Góry Świętokrzyskie); Pádr, 1990:76 (Czech Republic: Praha area); Delarze, 1992:68 (Switzerland: Valais: Les Follatères); Yeo and Corbet, 1995:35 (in field guide to British solitary wasps); Vepřek, 2000:234 (Czech Republic: Bzenec, Fryšták, Kobyla, Kurdějov, Zlín); Baghirov, 2007:93 (Russia: southwestern Siberia, as *atratinum*). – **As *Mimumesa atratina***: Lomholdt, 1975c:158 (new combination, in Sphecid Fauna of Fennoscandia and Denmark); R. Bohart and Menke, 1976:162 (in checklist of world Sphecidae); Pagliano, 1980:130 (Italy: Abruzzo, as *atratinus*); Dollfuss and Ressler, 1981:321 (Austria: Niederösterreich: Scheibbs District); Axelsson, 1982:79 (Sweden); Dollfuss, 1983b:4 (in catalog of Sphecidae of Austria); Riemann, 1983:82 (Germany: Bremen-Daverden area); Mingo and Gayubo, 1984:101 (Spain); Haack, Tschamtker, and Vidal, 1984:130 (Germany: Hamburg area); Schmidt, 1984:241 (Germany: Baden-Württemberg); Haeseler, 1985c:571 (Germany: Friesian Islands); Józán, 1985b:55 (Hungary S Lake Balaton), 77 (floral records), 83 (ecological and zoogeographic characteristics); Brechtel, 1986:63 (Germany: Südpfalz); Józán, 1986:368 (Hungary: Kiskunság National Park); Nilsson, 1986:87 (Sweden); Gayubo and Sanza, 1986:34 (Spain: Soria); Vikberg, 1986b:75 (Finland); Holtappels, 1987:26 (Germany: Nordrhein Westfalen: Effelder Waldsee); Riemann, 1987b:39 (Germany: Niedersachsen: Nature Reserve Dünengebiet near Neumühlen and Voßberg), 1988:223 (Germany: Bremen area); Wolf, 1988b:142 (Germany: Rheinland-Westfalen); Jacobs, 1989:5 (Germany: Mecklenburg-Vorpommern); Barbier, Rasmont, and Wahis, 1990:32 (Belgium: Hainaut); Budrys, 1990:944 (in revision of *Mimumesa* of USSR); Jacobs and Oehlke, 1990:138 (new records from Democratic Germany); Pagliano, 1990:111 (in catalog of Italian Sphecidae); Schwammberger and Priesner, 1990:534 (Austria: Kärnten); Day, 1991:xvi (summary of European Endangered Hymenoptera Lists); Dollfuss, 1991:40 (in key to Sphecidae of North and Central Europe); Haeseler, 1991:85 (Germany: Oldenburg: nesting habits); Józán, 1991:602 (Hungary: Bátorliget Nature Reserve); Kowalczyk, 1991a:89, 96, 99, 101, 107 (Poland: Łódź, as *atratinus*); Negrisolo, 1991:316 (Italy: Treviso Province); Budrys, 1992:25 (in list of Sphecidae of Lithuania); Józán, 1992b:172 (Hungary: Boronka-melléki Protected Area), 1992c:289 (Hungary: Zselic Hills); N. Schneider and Jacob-Remacle, 1992:43 (Luxemburg); N. Schneider, 1992:178 (Luxemburg); Kuhlmann, 1993:75 (Germany: known from Westfalen); Luig, 1993:41 (Estonia); Sorg and Wolf, 1993:60 (Germany: Rheinland-Westfalen: Nature Reserve Die Spey); Else and Felton, 1994:110 (in Britain known only from Isle of Wight); Kowalczyk, 1994:72 (Poland: Łagiewniki forest in Łódź, as *atratinus*); Theunert, 1994c:43 (Germany: summary of records from Niedersachsen and Bremen); Budrys *in* Nemkov, Kazenas, Budrys, et Antropov, 1995:390, 391 (in key to Sphecidae of Russian Far East); Gorobchishin, 1995:17 (Ukraine: Kanev Nature Reserve); Negrisolo *in* Minelli, Ruffo, and La Posta, 1995b:10 (in catalog of Italian fauna); Riemann, 1995:51 (Germany: Bremen); Negrisolo, 1995a:23 (Italy: Veneto); Pagliano and Pesarini, 1995:84 (Italy: Ferrara Province); Schmid-Egger, Risch, and Niehuis, 1995:195 (summary of records from Germany: Rheinland-Pfalz Province); Arens, 1996:440 (Germany: Bayern: Bayreuth area); Blösch, 1996:3 (Germany: Bayern: Tennenloher Forst Nature Reserve near Erlangen); Gorobchishin, 1996:53 (Ukraine: Kanev Nature Reserve); Jakubzik, 1996:253 (Germany: Köln); Jakubzik and Cölln, 1996b:400 (Germany: Rheinland-Pfalz); Minoranskiy and Shkuratov, 1996:82 (Russia: Rostov Oblast); Schmid-Egger, Schmidt, and Doczkal, 1996:377 (Germany: Baden-Württemberg: not endangered); Voblenko, Gorobchishin, and Nesterov, 1996:14 (Ukraine: Polesye Region); Witt, 1996:106 (Germany: Brandenburg), 109 (locality records); Woydak, 1996:141 (Germany: Westfalen: summary of distribution and nesting habits); Celary, 1997:57 (in checklist of Animals of Poland); Finnamore, 1997:885 (Canada: Yukon); Schmidt and Schmid-Egger, 1997: 18 (in checklist of German Sphecidae); Elligsen, 1998:70 (Ukraine: Sambir area); Dollfuss, Gusenleitner, and Bregant, 1998:511 (Austria: summary of collecting records from Burgenland); Drewes, 1998:49 (Germany: Niedersachsen: Goldbeck 26 km WSW Hamburg); Flügel, 1998:60 (Germany: Brandenburg: Unteres Odertal National Park); Haeseler and Ritzau, 1998:51 (Germany: Bremen: island of Harriersand in Weser River); Jakubzik, Schlüter,

and Cölln, 1998:1182, 1184 (Germany: Rheinland-Pfalz); Lefeber, 1998:182 (Netherlands: Limburg: Sint-Pietersberg near Maastricht at 50°50'N 5°41'E); van der Smissen, 1998:62 (Germany: Mecklenburg-Vorpommern: Palinger Heide; Schleswig-Holstein); K. Weber, 1998:143 (Germany: Bayern: Bamberg area); Gusenleitner, 1999:598 (Austria: Vorarlberg: Vandans NW Schruns); Kuhlmann, Wolf, and Woydak, 1999:569 (Germany: endangered in Nordrhein-Westfalen); Luig and Voolma, 1999:175 (Estonia); Majzlan, Rychlík, and Deván, 1999:146 (Slovakia: Čenkovská Step Nature Reserve); Mandery, 1999:105 (Germany: Bayern: Coburg area); Neumayer, Schwarz, and Bregant, 1999:224 (Austria: in checklist of Sphecidae of Land Kärnten); Pauly, 1999:108 (in catalog of Belgian aculeates); Riemann, 1999:835 (Germany: Niedersachsen: sand pits near Bremen); M. Schwarz, 1999:84 (Austria: Oberösterreich: city of Linz area); Zehnder and Zettel, 1999:131 (Switzerland: recolonization of flooded area in Valais Canton); Blösch, 2000:147 (in Sphecidae Fauna of Germany); Esenbekova and Kazenas, 2000:15 (southeast Kazakhstan: no specific locality); Jacobs, 2000:8 (Germany: Land Mecklenburg-Vorpommern: not endangered); Józán, 2000:105 (Hungary: Bakony Mountains); Kazenas, 2000e:46 (in Sphecidae Fauna of Kazakhstan); Ljubomirov, 2000:8 (Bulgaria, specimens in N. Nedelkov collection); Schmid-Egger, 2000b:275 (Germany: Baden-Württemberg: shores of Rhine River); Dollfuss and Bitsch *in* Bitsch et al., 2001:31 (in Sphecidae Fauna of Western Europe); Józán, 2001:278 (Hungary: Somogy County); Kazenas, 2001b:20 (in checklist of Sphecidae of Kazakhstan and Central Asia); Kazenas and Esenbekova, 2001:133 (Kazakhstan: Almatinskiy Nature Reserve); Ohl et al., 2001:140 (distribution in Germany by provinces); van der Smissen, 2001:61 (Germany: Schleswig-Holstein: not endangered); Wolf, 2001a:171 (Germany: Bayern: Lech valley from Augsburg to Donau); Deván, 2002a:200 (Slovakia: Kobela Nature Reserve near Nové Mesto); Józán, 2002:53 (Hungary: Mecsek Mountains); Kazenas, 2002a:43 (geographic distribution, collecting localities in Kazakhstan); Mokrousov, 2002:147 (Russia: Nizhniy Novgorod Oblast': Kerzhenskiy Nature Reserve); Shlyakhtenok and Skibińska, 2002:32 (Belarus': no specific locality); Wiśniowski, 2002:68 (Poland: Ojców National Park); Blösch, 2003b:83 (Germany: Bayern: Erlangen area, nesting in rotten willow poles); Cölln, Esser, and Jakubzik, 2003:62 (Germany: northwestern Rheinland-Pfalz: excavation sites and quarries); Drewes, 2003:139 (Germany, Hungary: miscellaneous locality records); Haeseler, 2003:340 (Germany: Niedersachsen: island of Harriersand near Bremen); Mandery, Kraus, Voith, Wickl, Scheuchl, Schubert, and Warncke, 2003:67 (Germany: in catalog of wasps and bees of Bayern); von der Heide and Metscher, 2003:102 (Germany: Niedersachsen: Emsland area); Wiśniowski *in* Dylewska and Wiśniowski, 2003:133 (Poland: Ojców National Park); Buck, 2004:24 (Canada: in checklist of Sphecidae of Ontario), 29 (distribution within Ontario), 35 (first records from Ontario, Labrador, Alberta, British Columbia, and Northwest Territories: list of localities); Dollfuss, 2004a:109 (Kazakhstan, Kyrgyzstan, Ukraine); Esser, Jakubzik, Sonnenburg, and Woydak, 2004:262 (Germany: in checklist of Sphecidae of Nordrhein-Westfalen); Majzlan and Deván, 2004:32 (Slovakia: Malacky-Široké); Shkuratov, 2004a:79 (Russia: Rostov Oblast'); Skibińska *in* Bogdanowicz, Chudzicka, Pilipiuk, and Skibińska, 2004:356 (in catalog of Polish Crabronidae); Stolle et al., 2004:372 (Germany: Sachsen-Anhalt: in red list of Sphecidae); van Achterberg and Peeters, 2004:32 (in checklist of Sphecidae of Netherlands); Wiśniowski, 2004:39 and 58 (in checklist of Polish Sphecidae); Blösch, 2005:3 (Germany: Bayern: Tennenloher Forst Nature Reserve near Erlangen); Burger, 2005:33 (Germany: Thüringen); Edwards and Broad, 2005:56 (Great Britain: distribution, status, habitat, flight period, prey, nesting habits, flower visiting, parasites, and distribution map); Fuhrmann, 2005:89 (Germany: Nordrhein-Westfalen: Grubengelände Littfeld Nature Reserve); Gayubo and Özbek, 2005:35 (Turkey: Erzurum: University campus); Jacob and Remacle, 2005:62 (Belgium: Luxembourg Province: quarry Haut des Loges in Vance); Kofler, 2005:166 (Austria: Tirol: Lienz District: Gödnach in Dölsach Common, Lavant, and Lesendorf in Oberlienz Common); Kowalczyk and Kurzac, 2005:105 (Poland: Botanical Garden in Łódź); Kraatz, 2005:103 (Germany: Niedersachsen: Bümmerstede near Oldenburg); Landeck, Wöhler, and Landgraf, 2005:18 (Germany: Lausitz Region; visiting flowers of *Reseda luteola* Linnaeus, Resedaceae); Nemkov, 2005a:142 (Russia: island of Sakhalin); Pagliano and Negrisoló, 2005:433 (in Sphecidae Fauna of Italy); Riemann and Hohmann, 2005:560 (Germany: Niedersachsen: city of Bremen and adjacent area); Saure, 2005:16 (Germany: Berlin); Theunert, 2005a:17 (Germany: in checklist of Sphecidae of Niedersachsen and Bremen); Yild-

irim and Ljubomirov, 2005:1801 (Turkey: Erzurum: Oltu); Blösch, 2006:58 (males spend nights in galleries in wood); U. Frommer and Tischendorf, 2006:89 (Germany: Hessen: Schlüchterner Becken); Liebig, 2006:39 (Germany: Sachsen: Muskauer Heide); Liška, 2006a:88 (Slovakia: Váh river valley near Trenčín); Petit, 2006:476 (Belgium: Liège Province: Bassenge); Shlyakhtenok, 2006:110 (Belarus': Polesye Radiological Nature Reserve); Vepřek, 2006:510 (Czech Republic: Kokořínsko area); Herrmann, 2007a:52 (Germany: Niedersachsen: Ostfriesland); Jacobs, 2007:52, 53 (in key to Crabronidae of Germany); Jacobs and Kroupa, 2007:325, 326 (in partial key to European *Mimesa* including *longicornis*); Jansen and Kaluza, 2007:24 (Germany: northwestern Sachsen); Józán, 2007:179 (Hungary: Zselic hills); Kowalczyk and Nadolski, 2007:284 (Poland: Łódź: railway areas); Nemkov, 2007b:68 (Russia: Kuril Islands: island of Kunashir); Saure, 2007:82 (Germany: in checklist of Aculeata of Land Brandenburg); Vepřek and Straka, 2007:199 (in catalog of Sphecidae of Czech Republic and Slovakia), 212 (Vepřek, 2000, summarized records from Moravia); Winkler, 2007:30 (Germany: Niedersachsen: eastern Friesland); Haeseler, 2008:308 (Germany: Friesian Islands); Ljubomirov and Ban-Calefariu, 2008:204 (Romania: Maramureş District: Repedea); Ljubomirov and Yildirim, 2008:167 (in catalog of Crabronidae of Turkey); Nemkov, 2008b:17 (in catalog of Crabronidae of Asiatic Russia); Theunert, 2008:49 (Germany: map of distribution in Niedersachsen and Bremen); U. Frommer, 2009a:28 (Germany: in checklist of Sphecidae of Hessen); Gayubo, González, Tormos, and Asís, 2009:362 (Spain: Valladolid: Reserva Natural Riberas de Castronuño – Vega del Duero); Ma and Li, 2009:209 (in key to Chinese *Mimumesa*, first record from China: several localities, as *atratinus*); Mokrousov, 2009:293 (Russia: Republic Mari El); Nemkov, 2009b:54 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia); Pagliano, 2009:186 (Italy: Liguria: Garlenda; Marche: Offida; Toscana: Pistoia); Straka, Dvořák, and Bogusch, 2009:262 (Czech Republic: Jizerské Vápenný Vrch Nature Reserve); Esser, Fuhrmann, and Venne, 2010:37 (Germany: in checklist of aculeates of Nordrhein-Westfalen); Johansson, 2010:121 (Sweden: Småland: upper Emå river valley); J. Kim and Yang, 2010:145 (in checklist of Korean Pemphredoninae); Mokrousov, 2010a:63 (Russia: Kirov, Kostroma, Nizhniy Novgorod, and Vladimir Oblast's, Chuvash Republic, Mari El Republic, Tatarstan: no specific localities); Rudoiskatel', 2010:153 (Russia: central and southern Ural Mountains); Schmid-Egger, 2010a:16 (in red list of Aculeata of Germany: relatively common); Schmidt, 2010:136 (Germany: Bayern: collected along Main-Donau canal); Shorenko and Kononov, 2010:25 (Ukraine); Treiber, 2010:135 (France: département du Haut-Rhin); van der Smissen, 2010a:344 (Germany: Schleswig-Holstein and Mecklenburg-Vorpommern: locality records); Baghirov, 2011b:153 (Russia: Altayskiy Krai: Savvushka); Józán, 2011:179 (in checklist of Sphecidae s.l. of Hungary); Mokrousov, Berezin, and Egorov, 2011:81 (Russia: Chuvash Republic); Schmid-Egger, 2011c:556 (Austria: Tirol: Tiroler Lech Nature Park); Theunert, 2011a:20 (Germany: in checklist of aculeates of Niedersachsen including city of Bremen); Tischendorf, Frommer, Flügel et al., 2011:143 (Germany: Hessen: not endangered); Ziska and Saure, 2011:109 (Germany: Berlin: Tegeler Fließ valley); Boillat, 2012:228 (Switzerland: in checklist of insects of Canton de Genève); Nemkov, 2012c:435 (in catalog of Crabronidae of Russian Far East); Prisniy, 2012:46 (Russia: Belgorod Oblast'); Shlyakhtenok, 2012a:171 (Belarus': collected in private plots), 2012b:92 (Belarus': Beresina National Reserve: overgrowing dry meadow); Terayama and Gōkun, 2012:3, 4, 16 (in key to Psenini of Japan, in Japanese), 28 (in list of Japanese Psenini); Akulov and Proshchalykin, 2013:112 (Russia: Siberia: Krasnoyarsk Krai: Krasnoyarsk); Danilov and Odintseva, 2013:332 (Russia: Western Siberia: 65 km NNE Tobol'sk at 58°45'N 68°74'E); Mokrousov, Ruchin, and Egorov, 2013:203 (Russia: Republic of Mordovia: Mordovian State Nature Reserve); Pankov, 2013:230 (Russia: Ivanovo Oblast', as *atratinus*); Shlyakhtenok, 2013:138 (in annotated catalog of aculeate wasps of Belarus'); Bitsch, 2014:409 (France: Alpes-Maritimes: Casterino; Hautes-Alpes: Rochebrune; Haut-Rhin: Munster); Hellqvist, Abenius, and Norén, 2014:94 (in catalog of Ampulicidae, Sphecidae, and Crabronidae of Sweden, by provinces); J.-K. Kim, 2014:444 (in catalog of Sphecidae s.l. of Korean Peninsula); Mokrousov and Vafin, 2014:59 (Russia: Republic of Tatarstan); Ruchin and Antropov, 2014:35 (Russia: Republic of Mordovia); Yildirim, Ljubomirov, and Lelej, 2014:9 (distribution in Turkey by biogeographic provinces); Zettel, Ockermüller, and Wiesbauer, 2014:163 (Austria: Niederösterreich); Koçak and Kemal, 2015:146 (in checklist of Hymenoptera of Turkey); Simon, Lorthiois, and Macé, 2015:54 (France: alluvial ter-

races in Eure Department: Courcelle-sur-Seine); Else, Bolton, and Broad, 2016:43 (in checklist of Aculeata of Great Britain and Ireland: England); Özbek, and Yüksel, 2016:29 (Turkey: Erzurum: Aşkale: Küçükgeçit); Ratzlaff, 2016:27 (Canada: British Columbia: from Buck, 2004); Stolle and Saure, 2016:923 (Germany: in list of Sphecidae s.l. of Sachsen-Anhalt); Fresno, 2017:147 (Spain: Zamora: Barcial del Barco); Mokrousov, 2017e:251 (in catalog of Pemphredoninae of Russia); Shorenko, 2017:78 (in Crimea collected in August).

Mimesa carbonaria Tournier, 1889:95, ♀, ♂, junior primary homonym of *Mimesa carbonaria* F. Smith, 1865. Syn-types: Switzerland: Peney near Genève (MHNG). Synonymized with *Psen atratinus* by Gussakovskij, 1937, and with *Psen belgicus* by de Beaumont, 1937:49. – Tournier, 1889:68 (in key to *Mimesa*); Mocsáry, 1897:78 (Kingdom of Hungary, some localities are in today's Romania); Bondroit, 1934:64, 65 (in key to Belgian *Mimumesa*).

Mimesa belgica Bondroit, 1932:34, ♀, ♂. Lectotype: Belgium: Brabant: Uccle, designated by Leclercq, 1974b:193 (Inst. Roy. Sci. Nat. Bruxelles). Synonymized with *Psen atratinus* by de Beaumont, 1941:328. – Bondroit, 1934:64, 65 (in key to Belgian *Mimumesa*); Crèvecoeur and Maréchal, 1936:250 (in catalog of Belgian Hymenoptera). – **As *Psen belgicus***: de Beaumont, 1937:49 (new combination, in revision of Palearctic *Psenini*); Merisuo, 1938:249 (in key to *Pseninae* of Finland); Noskiewicz, 1939:163 (first record from Czech Republic: Morava: Luhačovice); Paul, 1941:49 (Germany: Pommern: Stettin area, now Poland: Województwo Zachodniopomorskie: Szczecin area); van Lith, 1947:107 (first record from Netherlands: Steyl).

Mimesa longula Gussakovskij, 1932:5, ♂. Holotype: ♂, Russia: Primorskiy Krai: Sutshan (Stockholm). Synonymized with *Mimumesa atratina* by de Beaumont, 1941a:328 and Budrys, 1990:944. – **As *Psen longulus***: Gussakovskij, 1937:660 (new combination, junior secondary homonym of *Psen longulus* Tournier, 1889, a synonym of *Psenulus schencki* (Tournier, 1889); in revision of Palearctic *Psen*). – **As *Psen belgicus* var. *longulus***: de Beaumont, 1937:50 (new status, in revision of Palearctic *Psenini*), 1941:328 (status confirmed). – **As *Psen atratinus longulus***: Tsuneki, 1964c:10 (new subspecific combination, Japan: Kyushu); van Lith, 1965:64 (bibliographic reference, diagnostic characters); Tsuneki, 1967g:44 (w. Japan: Mount Hyonosen; as *atratinus longula*); Haneda, 1968b:55 (Japan: Nagano Prefecture: Ina District); Okuno, 1968:32 (Japan); van Lith, 1968:133 (in list of subgenus *Mimumesa*); Itami, 1969:49 (Japan: Niigata Prefecture); Haneda, 1970:12 (Japan: Akita Prefecture); Tsuneki, 1974a:366 (Korea), 1979d:10 (Japan), 1982b:15 (known from Korea); Paik, 1985:198 (in list of Sphecidae of Korea); Tsuneki, 1991:200 (Korea). – **As *Mimumesa atratina longula***: Kurokawa, 2003:61 (new combination, Japan: city of Fukui: Egamichou); Suda, 2004:38 (Japan: Yamanashi Prefecture); Haneda, Inoue, Nozaka, Tano, Kurokawa, and H. and T. Murota, 2005:64 (Japan: Fukui Prefecture: Mount Monju); Haneda, Nozaka, Tano, Kurokawa, and Murota, 2005:43 (Japan: Gifu Prefecture); Negoro, Haneda, and Tano, 2005:44 (Japan: Toyama Prefecture); Haneda, Nozaka, Tano, Kurokawa and Murota, 2006a:18 (Japan: Toyama Prefecture).

Psen sameshimai Yasumatsu, 1937:10, ♀, ♂. Holotype: ♀, Japan: Kyushu: Kagoshima (Fukui). Synonymized with *Psen atratinus longulus* by van Lith, 1965:64. – Sibuya, 1940:43 (nesting habits); Nambu, 1973d:151 (Japan: Saitama Prefecture). – **As *Psen atratinus sameshimai***: Tsuneki, 1959g:48, 51 (in key to *Psen* of Japan and Korea), 54 (new status, redescription; Japan), 78 (possibly a junior synonym of *Psen atratinus longulus*); Nambu, 1975b:66 (Japan: Saitama Prefecture).

As *Psen atratinus*: Tsuneki, 1954c:53 (Japan), corrected to *Psen sameshimai* by Tsuneki, 1959g:54.

As *Mimesa unicolor*: Dathe, 1969:440 (Germany: Berlin Zoological Garden), corrected to *Psen atratinus* by Dathe, 1971:238.

2. *beaumonti* (van Lith)

Psen beaumonti van Lith, 1949:140, ♀, ♂. Holotype: ♀, Netherlands: Herpen (Mus. Rotterdam). – van Lith, 1949:141 and 144 (in key to European *Mimumesa*), 146 (collecting localities in Netherlands, Belgium, Denmark, Germany, Finland); nec Tsuneki, 1954c:53 (= *vanlithi* Tsuneki); Kjellander, 1954b:247 (first record from Sweden); Benno, 1958b:17 (in review of Dutch Sphecidae); Tsuneki, 1959g:49, 51 (in key to *Psen* of Japan and Korea); Noskiewicz and Puławski, 1960:50, 52 (in key to Polish Sphecidae); Valkeila, 1962b:66 (southwestern Finland); de Beaumont,

1964c:91 (in Sphecidae Fauna of Switzerland, not recorded from Switzerland); Benno, 1967:38 (in checklist of Sphecidae of Netherlands); Oehlke, 1970:727 (Democratic Germany); Tumšs, 1970:73 (first record from Latvia: Zabludovka); Lefeber, 1971b:223 (Netherlands: Panheel); Balthasar, 1972:248 (in Sphecidae Fauna of Czechoslovakia: may be expected in the country); Haeseler, 1973:54 (Germany: Schleswig-Holstein: Rasdorf 11 km SE Kiel); Lefeber, 1974:77 (Belgium: Plombières); Leclercq, 1974b:193 (Belgium: locality records); Lefeber and Petit, 1974:163 (Belgium: Plombières); Eck, 1976:92 (Democratic Germany); Simon Thomas and Wiering, 1976:109 (Netherlands: IJsselmeer Polders); Banaszak, 1977:112 (Poland: Rogalin near Poznań); Kolesnikov, 1977:319 (Russia: Bryansk Oblast'); Pulawski, 1978:233, 236 (in key to Sphecidae of European part of former USSR); Kowalczyk, 1988a:44 (Poland: Rogów). – **As *Mimesa beaumonti***: Blüthgen, 1951:234 (new combination, Germany: Dessau); Hellén, 1955a:123 (specimen recorded from Finland is actually *Mimumesa dahlbomi*); Wolf, 1959b:25 (known from Germany, but not from Nassau); Haeseler, 1984:109 (Germany: Norderney). – **As *Mimumesa beaumonti***: Lomholdt, 1975c:161 (new combination, in Sphecidae Fauna of Fennoscandia and Denmark); R. Bohart and Menke, 1976:164 (in checklist of world Sphecidae); Haeseler, 1985a:350 (Germany: Schleswig Holstein), 1985c:571 (Germany: Friesian Islands); Westrich and Schmidt, 1985a:117 (Germany: Baden-Württemberg); Nilsson, 1986:87 (Sweden); Vikberg, 1986b:75 (Finland); Budrys, 1988:109 (Russia: Leningrad, Pskov, Moscow, and Belgorod Oblast's; Irkutsk; Primorskiy Krai; Kazakhstan), 1990:945 (in revision of *Mimumesa* of USSR); Jacobs and Oehlke, 1990:138 (new records from Democratic Germany); Dollfuss, 1991:40 (in key to Sphecidae of North and Central Europe); Nilsson, 1991:83 (Sweden: Lake Mälaren), 88 (collecting conditions, distribution in Sweden); Budrys, 1992:26 (in list of Sphecidae of Lithuania); Gusenleitner, 1992:684 (Austria: Kärnten: Griffner See SW Griffen; first record from Austria); Nilsson, 1992:54 (Sweden); N. Schneider, 1992:178 (Luxemburg); Luig, 1993:41 (Estonia); Theunert, 1994c:43 (Germany: summary of records from Niedersachsen and Bremen); Budrys *in* Nemkov, Kazenas, Budrys, et Antropov, 1995:390, 391 (in key to Sphecidae of Russian Far East); Gorobchishin, 1995:17 (Ukraine: Kanev Nature Reserve), 1996:53 (Ukraine: Kanev Nature Reserve); Schmid-Egger, Schmidt, and Doczkal, 1996:377 (Germany: Baden-Württemberg: probably endangered); Shlyakhtenok, 1996:304 (Belarus': Berezinsky Nature Reserve); Voblenko, Gorobchishin, and Nesterov, 1996:14 (Ukraine: Polesye Region); Celary, 1997:57 (in checklist of Animals of Poland); Schmidt and Schmid-Egger, 1997:18 (in checklist of German Sphecidae); Flügel, 1998:60 (Germany: Brandenburg: Unteres Odertal National Park); Haeseler and Ritzau, 1998:51 (Germany: Bremen: island of Harriersand in Weser River); H.-J. Schulz, 1998b:9 (Germany: Brandenburg: Unteres Odertal National Park); Luig and Voolma, 1999:175 (Estonia); Neumayer, Schwarz, and Bregant, 1999:224 (Austria: in checklist of Sphecidae of Land Kärnten); Pauly, 1999:108 (in catalog of Belgian aculeates); Blösch, 2000:148 (in Sphecidae Fauna of Germany); Kazenas, 2000e:48 (in Sphecidae Fauna of Kazakhstan); Dollfuss and Bitsch *in* Bitsch et al., 2001:32 (in Sphecidae Fauna of Western Europe); Haeseler, 2001:266 (Germany: Niedersachsen: Brookdeich near Oldenburg); Kazenas, 2001:20 (in checklist of Sphecidae of Kazakhstan and Central Asia); Ohl et al., 2001:140 (distribution in Germany by provinces); Reemer and van der Meer, 2001:16 (Netherlands: along Almelo-Nordhorn canal); Skibińska, 2001:219 (Poland: Białowieża Primeval Forest); Tischendorf, 2001:30 (Germany: first record from Hessen: Kühkopf-Knoblochsaue Nature Reserve); van der Smissen, 2001:61 (Germany: Schleswig-Holstein: extremely rare); Józán, 2002:53 (Hungary: Mecsek Mountains); Kazenas, 2002a:43 (geographic distribution, collecting localities in Kazakhstan); Shlyakhtenok and Skibinska, 2002:32 (Belarus': no specific locality); Ziska, 2002:8 (Germany: Berlin-Köpenick: Krumme Lake); Haeseler, 2003:340, 346 (Germany: Niedersachsen: island of Harriersand near Bremen); Mandery, Kraus, Voith, Wickl, Scheuchl, Schubert, and Warncke, 2003:67 (Germany: in catalog of wasps and bees of Bayern); Wickl, Voith, Mandery, Weber, Kraus, Bausenwein, and Blösch, 2003:197 (Germany: Bayern: probably endangered); Dollfuss, 2004a:109 (Czech Republic, Slovakia); Esser, Jakubzik, Sonnenburg, and Woydak, 2004:262 (Germany: in checklist of Sphecidae of Nordrhein-Westfalen); Skibińska *in* Bogdanowicz, Chudzicka, Pilipiuk, and Skibińska, 2004:356 (in catalog of Polish Crabronidae); Stolle et al., 2004:372 (Germany: Sachsen-Anhalt: in red list of Sphecidae); van Achterberg and Peeters, 2004:32 (in checklist of Sphecidae of Netherlands); Wiśniowski, 2004:39 and 58 (in checklist of Polish

Sphecidae); Reder, 2005:934 (Germany: first record from Rheinland-Pfalz: Maxdorf); Riemann and Hohmann, 2005:560 (Germany: Niedersachsen: city of Bremen and adjacent area); Saure, 2005:16 (Germany: Berlin); Theunert, 2005a:17 (Germany: in checklist of Sphecidae of Niedersachsen and Bremen); Saure, 2006:132 (Germany: Berlin); Shlyakhtenok, 2006:110 (Belarus': Polesye Radiological Nature Reserve); Bitsch, Dollfuss, Bouček, Schmidt, Schmid-Egger, Gayubo, Antropov, and Barbier, 2007:453 (recorded from Czech Republic and Slovakia by Dollfuss, 2004); Jacobs, 2007:52, 54 (in key to Crabronidae of Germany); Jacobs and Kroupa, 2007:325 (in partial key to European *Mimesa* including *longicornis*); Saure, 2007:82 (Germany: in checklist of Aculeata of Land Brandenburg); Shlyakhtenok, 2007a:299 (Belarus': Berezinsky Nature Reserve); Vepřek and Straka, 2007:199 (in catalog of Sphecidae of Czech Republic and Slovakia, known from Bohemia and Slovakia only), 212 (first recorded from Slovakia by Deván, 2005; Bohemia: Černousy, Zliv; Slovakia: Štúrovo); Haeseler, 2008:308 (Germany: Friesian Islands); Nemkov, 2008b:17 (in catalog of Crabronidae of Asiatic Russia); Theunert, 2008:50 (Germany: map of distribution in Niedersachsen and Bremen); Zettel, Wiesbauer, and Zimmermann, 2008:136 (Austria: Niederösterreich: Marchegg); Protsenko and Drozdovskaya, 2008:125 (Ukraine: Sumy Oblast': village of Mogritsa); Hessling, 2009:104 (Germany: Niedersachsen: Hunte River valley south of Oldenburg); Mokrousov, 2009:294 (Russia: Republic Mari El); Nemkov, 2009b:55 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia), 2009c:235 (Russia: Primorskiy Krai: Lazovsky Nature Reserve); Straka, Dvořák, and Bogusch, 2009:262 (Czech Republic: Černousy-V Poli); Esser, Fuhrmann, and Venne, 2010:37 (Germany: in checklist of aculeates of Nordrhein-Westfalen); Johansson, 2010:121 (Sweden: Småland: upper Emå river valley); Józán, 2010:253 (Hungary: Somogy County); Mokrousov, 2010a:63 (Russia: Nizhniy Novgorod Oblast', Mary El Republic: no specific localities); Saure, 2010a:88 (Germany: Berlin-Reinickendorf: Baumberge), 2010b:175 (Germany: Berlin-Reinickendorf: airport Tempel and Flughafensee Protected Area); Schmid-Egger, 2010a:16 (in red list of Aculeata of Germany: rare); Schmidt, 2010:136 (Germany: Bayern: collected along Main-Donau canal); van der Smissen, 2010a:344 (Germany: Schleswig-Holstein: Klein Flottbek); Józán, 2011:179 (in checklist of Sphecidae s.l. of Hungary); Saure, 2011a:6 (Germany: Berlin: former airport Tempelhof); Theunert, 2011a:20 (Germany: in checklist of aculeates of Niedersachsen including city of Bremen); Tischendorf, Frommer, Flügel et al., 2011:144 (Germany: Hessen: not endangered); Ziska and Saure, 2011:109 (Germany: Berlin: Tegeler Fließ valley); Nemkov, 2012c:435 (in catalog of Crabronidae of Russian Far East); Shlyakhtenok, 2012a:171 (Belarus': collected in private plots); Mokrousov, Ruchin, and Egorov, 2013:203 (Russia: Mordovian Republic: Mordovian State Nature Reserve); Pankov, 2013:230 (Russia: Ivanovo Oblast'); Saure, 2013:20 (Berlin: Treptow-Köpenick: Gosener Wiesen); Shlyakhtenok, 2013:138 (in annotated catalog of aculeate wasps of Belarus'); Hellqvist, Abenius, and Norén, 2014:94 (in catalog of Ampulicidae, Sphecidae, and Crabronidae of Sweden, by provinces); Saure, 2016b:49 (Germany: Sachsen-Anhalt: fruit orchards); Stolle and Saure, 2016:923 (Germany: in list of Sphecidae s.l. of Sachsen-Anhalt); Mokrousov, 2017e:251 (in catalog of Pempredoninae of Russia).

As *Psen exaratus*: Blüthgen, 1949:89 (Germany: Dessau), corrected to *Mimesa beaumonti* by Blüthgen, 1951:233.

3. *bermudensis* (Malloch)

Psen bermudensis Malloch, 1933:24, ♀, ♂. Holotype: ♂, Bermuda Islands: no specific locality (USNM). – As *Mimumesa bermudensis*: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae).

4. *canadensis* (Malloch)

Psen canadensis Malloch, 1933:22, ♀, ♂. Holotype: Canada: no specific locality (USNM). – Krombein, 1939:140 (New York State). – As *Mimesa canadensis*: Krombein in Muesebeck et al., 1951:961 (new combination, in catalog of North American Hymenoptera). – As *Mimumesa canadensis*: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1597 (in catalog of North American Hymenoptera); Finnamore, 1997:885 (Canada: Yukon); Buck, 2004:24 (Canada: in checklist of Sphecidae of Ontario).

5. *clypeata* (W. Fox)

Psen clypeatus W. Fox, 1898:15, ♀, ♂. Lectotype: ♀, USA: Nevada no specific locality (ANSP), designated by Cresson, 1928:50. – Malloch, 1933:24 (in revision of North American Psenini); Strickland, 1947:127 (Canada: Alberta: Medicine Hat). – **As *Mimesa clypeata***: Ashmead, 1899d:224 (new combination, in checklist of North American Crabronidae); Viereck, 1901b:342 (in checklist of North American Psenini); Krombein *in* Muesebeck et al., 1951:961 (in catalog of North American Hymenoptera, as new combination), 1958f:189 (in supplement to catalog of North American Hymenoptera: Washington); Steiner, 1973:25 (Canada: Northwest Territories). – **As *Mimumesa clypeata***: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1597 (in catalog of North American Hymenoptera); Finnermore, 1994:210 (Canada: Alberta: Wagner Natural Area 8 km W Edmonton), 1997:885 (Canada: Yukon); Buck, 2004:24 (Canada: in checklist of Sphecidae of Ontario), 29 (distribution within Ontario), 36 (first record from Ontario: Neys Provincial Park); Ratzlaff, 2016:27 (Canada: first record from British Columbia: Central Interior, Georgia Depression, Southern Interior, Southern Interior Mountains, and Taiga Plains), 38 (British Columbia: Blind Bay, Chilcotin, Invermere).

6. *coloradensis* (Cameron)

Psen coloradensis Cameron, 1908c:232, ♀. Holotype or syntypes: ♀, USA: Colorado: Berkeley County: no specific locality (BMNH). – Malloch, 1933:26 (in revision of North American Psenini). – **As *Mimesa coloradensis***: Krombein *in* Muesebeck et al., 1951:961 (new combination, in catalog of North American Hymenoptera). – **As *Mimumesa coloradensis***: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1597 (in catalog of North American Hymenoptera).

7. *cylindrica* (W. Fox)

Psen cylindricus W. Fox, 1898:5, ♀, ♂. Lectotype: ♀, USA: Arizona: no specific locality (ANSP), designated by Cresson, 1928:50. – **As *Mimesa cylindrica***: Ashmead, 1899d:224 (new combination, in checklist of North American Crabronidae, as *cylindricus*); Viereck, 1901b:342 (in checklist of North American Psenini); Krombein *in* Muesebeck et al., 1951:961 (in catalog of North American Hymenoptera, as new combination). – **As *Mimumesa cylindrica***: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1597 (in catalog of North American Hymenoptera).

8. *dahlbomi* (Wesmael)

As *Mimesa unicolor*: Dahlbom, 1842a:8, 1943:1 (in revision of Sphecidae and Pompilidae), and 1845:427 (in key to European *Mimesa*), corrected to *Mimesa dahlbomi* by Wesmael, 1952:271.

Mimesa dahlbomi Wesmael, 1852:271, ♀, ♂ (as *Dahlbomi*, incorrect original capitalization). Lectotype: ♀, Belgium: Bruxelles area (Inst. Roy. Sci. Nat. Bruxelles), designated by van Lith, 1949:139. – F. Smith, 1856:430 (in catalog of Hymenoptera in British Museum); Schenck, 1857:207 (Germany: in revision of fossorial wasps of Nassau Region); F. Smith, 1858c:184 (in review of British Aculeata, redescription); Taschenberg, 1858:78 (in key to Sphecidae of Germany); Funk, 1859:60 (Germany: Bayern: Bamberg); Schenck, 1860:149 (Germany: Nassau Region), 1861:143 (Germany: Hessen: Weilburg); Brischke, 1862:97 (Germany: Preussen Province, now Poland: Pomorze Region); Taschenberg, 1866:205 (in revision of Hymenoptera of Germany); A. Costa, 1867c:104 (in revision of Italian Sphecidae); Kirchner, 1867:216 (in catalog of European Hymenoptera); Schenck, 1867a:357 (Germany: Nassau Region); von Aichinger, 1870:322 (Austria: Tirol); Thomson, 1870:233 (in revision of Swedish wasps); A. Costa, 1871b:33 (in revision of Italian Sphecidae); F. Smith, 1871b:19 (in catalog of British Aculeata); Dours, 1874:150 (in catalog of Hymenoptera of France); Thomson, 1874:183 (in revision of Hymenoptera of Scandinavia); Taschenberg, 1875:387 (Germany: Halle); Kohl, 1880:140 (Austria: Tirol, and Italy: Trentino–Alto Adige); E. Saunders, 1880:263 (in revision of British Aculeata); Siebke, 1880:61 (Norway); Magretti, 1881:110 (Italy: Lombardia), 270 (in list of species treated in this paper); A. Costa, 1883:58 (Italy: Sardegna: Alghero); Friese, 1883:203 (Germany: Sachsen-Anhalt: Weissenfels); Kohl, 1883e:661 (Switzerland); von Heyden, 1884:121 (Ger-

many: Frankfurt am Main area); Wüstnei, 1886:39 (Germany: Schleswig-Holstein: Kollund); Ed. André, 1888:176 (in revision of Sphecidae of Europe and Algeria), 12* (bibliographic references); Brischke, 1888b:94 (Germany: Preussen Province, now Poland: Pomorze Region); Kohl, 1888b:726 (Austria: Tirol, now Italy: Alto Adige); Tournier, 1889:68 (in key to *Mimesa*), 96 (Switzerland: Peney near Genève, interpretation of the name by earlier authors); V. Perkins, 1892:203 (Great Britain: Gloucestershire: Wotton-under-Edge); Kohl, 1893a:40 (Austria: Niederösterreich: Piesting and Wien); F. Morawitz, 1893a:109 (Russia: Karelian Isthmus); Sickmann, 1893:96 (Germany: Niedersachsen: Iburg); Engel, 1894:53 (Germany: Haacke near Hamburg); E. Saunders, 1896:102 (in revision of British Aculeata); Borries, 1897:84 (nesting habits); Dalla Torre, 1897:352 (in catalog of world Hymenoptera); Mocsáry, 1897:78 (Kingdom of Hungary, localities are now in Romania and Slovakia); Strand, 1898b:92 (Norway); R. Bradley, 1900:13 (Great Britain: Birmingham); W. Evans, 1901b:301 (Great Britain: Scotland: Midlothian: Polton); Antiga and Bofill, 1904:6 (Spain: Cataluña Province); Aurivillius, 1904:257 (in revision of Swedish Sphecidae); W. Schulz, 1904b:91 (Austria, Czechoslovakia); Arnold, 1905:262 (Great Britain: Hampshire: Brockenhurst); Kubes, 1905:83 (Czech Republic: Kolín, Obora); Adlerz, 1906:33 (Sweden; nesting habits); Schmiedeknecht, 1907:249 (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); Kohl, 1912a:63 (Austria: Südtirol: Radein, now Italy: Trentino-Alto Adige: Redano); Alfken, 1914:284 (northwest Germany); Birula, 1914:389 (Belarus: Ambrosovich and Luskinopol' near Vitebsk); Zilahi Kiss, 1915:80 (Hungary: Felső-Ilosva, Boksánbánya, Versecz); Jansson, 1919:5 (nesting in wood, prey: *Liburnia* sp., a delphacid); O. Meyer, 1919:156 (Germany: Posen Province, now Poland: Poznań Region); Łoziński, 1920:122 (Poland: Kraków, Maków Podhalański); Noskiewicz, 1920a:154 (Poland: Tatra Mountains: Toporowa Cyrhla, Kamieniólom); A. Wagner, 1920:36 (Germany: Lower Elbe region); Dubois, 1921c:215, 216 (in key to Belgian Sphecidae); Maidl, 1922:66 (Albania, Montenegro); Berland, 1925d:134 (in Sphecid Fauna of France); Coulon, 1925:113 (France: Biel, Evreux, Oise); Schütze, 1925:114 (Germany: Lausitz Region: Rachlau); Friese, 1926:165 (in key to Sphecidae of Central Europe, short morphological and biological characteristics); Benoist, 1928:410 (France: Hautes-Alpes: Aiguilles); Bouwman, 1928b:54 (in revision of Sphecidae of Netherlands); Crèvecoeur and Maréchal, 1928:172 (Belgium: Houyet); Schmiedeknecht, 1930:710 (in keys to Hymenoptera of North and Central Europe); Grandi, 1931:57 (Italy: Toscana: Vallata delle Pozze near Le Mandriole, determination tentative); Pulkkinen, 1931:82 (in revision of Sphecidae of Finland); Bondroit, 1932:34 (Belgium: recorded from Bruxelles area by Wesmael); Crèvecoeur and Maréchal, 1932:71 (in catalog of Belgian Hymenoptera: Martinrive); Gussakovskij, 1932:5 (Russia: Kamchatka); Merisuo, 1933a:59 (Finland: city of Turku), 1933c:75 (in key to *Mimumesa* of Finland); Bondroit, 1934:63, 65 (in key to Belgian *Mimumesa*); Jansson, 1934:291 (Sweden); Forsius in Forsius and Hellén, 1935:11 (in checklist of Hymenoptera of Finland); Vergne, 1935:118 (France: Auvergne: Clermont-Ferrand); Benoist, Berland, and Blüthgen, 1936:10 (Azores); Crèvecoeur and Maréchal, 1936:250 (in catalog of Belgian Hymenoptera); Richards, 1937b:105 (in checklist of British aculeates); Zavadil, Šusterka, and Bat'a, 1937:219 (in catalog of Sphecidae of Czechoslovakia); A. Wagner, 1938a:124 (northwestern Germany); Hallett, 1939:15 (Great Britain: Wales: no specific locality); Maneval, 1939:74 (nest, prey: cicadellid *Stiroma pteridis* Boh.); Teunissen, 1939:171 (first record from Netherlands: Herpen); Dovnar-Zapolskiy, 1940:304 (Russia: Kursk Oblast'); Balthasar, 1941b:114 (Czech Republic: eastern Moravia); Schneid, 1941:1052 (Germany: Bayern: Bamberg area); Bat'a, 1942:86 (Czech Republic); Spooner, 1943:73 (Great Britain: Gloucestershire: Wootton); T. Fletcher, 1945:53 (Great Britain: Gloucestershire: Wotton); Hallett, 1945:129 (Great Britain: Herefordshire: The Lea); Spooner, 1946:27 (Britain: Leicestershire: Charnwood Forest); Carl and de Beaumont, 1947:68 (Switzerland: Graubünden = Grisons Canton: Swiss National Park); Guichard and Yarrow, 1948:91 (Great Britain: London: Hampstead Heath); Spooner, 1948:159 (in revision of British Psenini); Chambers, 1949:226 (Great Britain: Bedfordshire); Cavro, 1950:32 (France: Département du Nord); Graham, 1950b:293 (Great Britain: Lincolnshire: Woodhall Spa); Richards, 1950:79 (Great Britain: Wales: Pembrokeshire: Cwm-yr-Eglwys); Szulczewski, 1950:109 (Poland: Wielkopolski National Park 15 km S Poznań); Hallett, 1952:44 (Great Britain: West Sussex: Bosham Hoe); Vogrin, 1955:38

(Yugoslavia); Ceballos, 1956:356 (in catalog of Hymenoptera of Spain); Yeo, 1957:19 (England: Middlesex, now in London); Zirngiebl, 1957:185 (Germany: Rheinland-Pfalz: Marktrechwitz); Wolf, 1959b:25 (Germany: Schleswig-Holstein); Felton, 1963:178 (Great Britain: Kent County); Babić, 1964:115 (Austria: Land Salzburg); Mingo Pérez, 1965:166 (in revision of Spanish *Psenini*); Hoop, 1967a:40 (Germany: Schleswig Holstein: Kiel, Lauenberg); Mingo Pérez, 1968:86 (in checklist of Spanish *Psenini*); Hoop, 1971:84 (Germany: Schleswig Holstein: vicinity of Rodenbek); Wolf, 1971:84 (Germany: Schleswig-Holstein); Axelsson, 1982:79 (Sweden). – **As *Psen dahlbomi***: Radoszkowski, 1892:587 (new combination, male genitalia); R. Perkins, 1924:221 (Great Britain: Devon), 1925:149 (Great Britain: Gloucestershire and Somersetshire); de Beaumont, 1937:51 (in revision of Palearctic *Psenini*); Gussakovskij, 1937:658 (in revision of Palearctic *Psen*, in subgenus *Mimesa*); Merisuo, 1938:250 (in key to *Pseninae* of Finland); Paul, 1941:49 (Germany: Pommern: Stettin area, now Poland: Województwo Zachodniopomorskie: Szczecin area); Giner Marí, 1943:50 (in Sphecidae Fauna of Spain); Šnoflák, 1944a:144 (Czech Republic: serpentine steppe near Mohelno); Zavadil *in* Zavadil and Šnoflák, 1948:141, 142 (in key to Sphecidae of Czechoslovakia); van Lith, 1949:138 (discussion of species identity), 139 (redescription), 141 and 143 (in key to European *Mimumesa*), 147 (not recorded from Netherlands); de Beaumont, 1951h:33 (Switzerland: Neuchâtel area); Nouvel and Ribaut, 1953:179 (France: Haute-Garonne: Saint-Béat); de Beaumont, 1954e:92 (Italy); Fahlander, 1954:253 (Sweden: Gästrikland Region); nec Tsuneki, 1954:52 (= *Mimumesa dahlbomi pacifica*); Aerts, 1955:66 (Germany: Rheinland); Bajári, 1957a:72, 73 (in key to Hungarian Sphecidae); de Beaumont, 1958c:207 (Swiss National Park); Pulawski, 1958a:186 (Bulgaria: Kniazhevo near Sofia); Noskiewicz and Puławski, 1960:50, 51 (in key to Polish Sphecidae); Valkeila, 1962b:66 (southwestern Finland); Valkeila, Brander, and Käpylä, 1963:41 (Finland: historical region Lounais-Hämeen = southwest Häme); de Beaumont, 1964c:91 (in Sphecidae Fauna of Switzerland); Fæster, 1965:192 (Denmark: Hansted Nature Reserve); de Beaumont, 1967a:339 (Turkey); Gauss, 1967:555 (Germany: Baden-Württemberg); J. Heinrich, 1967:77 (Germany: Bayern: Lohr); Niedl and Deneš, 1967:80 (Czech Republic: Třeboň area); Scobiola-Palade, 1967b:44 (Romania); Bonelli, 1968b:50 (Italy: Trentino–Alto Adige: Cavalese); Leclercq, 1968b:39 (Great Britain: Kent); Scobiola-Palade, 1968c:385 (Romania: Alexandria, Andronache, Budești, București, Comana); Romanova, 1969:134 (Russia: North Caucasus); Gauss and Perraudin, 1970:360 (Germany: Baden-Württemberg: Bodensee area); Haeseler, 1970:74 (Germany: Schleswig Holstein: Lauenburg); Tumšs, 1970:73 (first record from Latvia); Dathe, 1971:234 (Germany: Berlin Zoological Garden; phenology), 238 (Germany: Berlin); Lefeber, 1971a:17 (Belgium: Bassenge); Petit, 1971:22 (Luxemburg: Bourscheid); Schmidt, 1971b:39 (Germany: Rheinland-Pfalz: Gonsenheimer Wald); Stritt, 1971a:104 (Germany: Baden-Württemberg: Karlsruhe); Wolf, 1971:375 (Italy: Trentino–Alto Adige: Alpi Siusi); Balthasar, 1972:245 (in Sphecidae Fauna of Czechoslovakia); Kofler, 1972:108 (Austria: eastern Tirol); Scobiola-Palade, 1972b:253 (Romania); Tsuneki, 1972a:177 (Mongolia); Haeseler, 1973:54 (Germany: Schleswig-Holstein: Rasdorf 11 km SE Kiel, Rodenbeck 10 km SW Kiel, Schierensee near Kiel); Lefeber, 1973:153 (Belgium: Plombières); Wolf, 1973:41 (Germany: Siegerländer Hüttensand); Erlandsson, 1974:76 (Italy); Leclercq, 1974b:193 (Belgium and France: locality records); Lefeber and Petit, 1974:163 (Belgium: Plombières); Tsuneki, 1974a:366 (Korea); Lefeber, 1976:152 (Belgium: La Calamine); Eck, 1976:92 (Democratic Germany); Guichard, 1977:252 (Great Britain: Surrey); Kolešnikov, 1977:319 (Russia: Bryansk Oblast); Haeseler, 1978b:63 (Germany: Niedersachsen: a bog near Oldenburg); Kazenas, 1978b:149, 150 (in key to Sphecidae of Kazakhstan and Central Asia); Pulawski, 1978:233, 236 (in key to Sphecidae of European part of former USSR); Schwammberger, 1978:418 (Germany: Württemberg); Benedek, 1979:232 (Hungary: Bakony Hills); Dathe, 1980:209 (Russia: northern Caucasus: Dombay); Richards, 1980:61 (in key to Sphecidae of British Isles); Felton, 1981:83 (Great Britain: Kent); Józán, 1981:305 (Hungary: Hortobágy National Park); Skibińska, 1981:357 (Poland: Warszawa-Białoleka); Thiede, 1981:46 (Germany: Baden-Württemberg: Ulm, reared from artificial nest with acrylic tubes); Donath, 1982:214 (Germany: Cottbus Bezirk); Skibińska, 1982:118, 122 (Poland: Mazovian Voivodship: Białoleka), Tsuneki, 1982b:15 (known from Korea); Archer, 1985d:50 (Great Britain: Yorkshire: Pomporali near Leeds); Paik, 1985:198 (in list of Sphecidae of Korea); Skibińska, 1986b:165 (Poland: Warszawa: streetside green), 173 (various green urban habitats); Kowalczyk,

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area); Vago, 2007:174 (France: département de Somme); Venne, Bleidorn, and Lauterbach, 2007:302 (Germany: Nordrhein-Westfalen: Bielefeld); Vepřek and Straka, 2007:199 (in catalog of Sphecidae of Czech Republic and Slovakia); Kazenas, 2008a:99 (southeastern Kazakhstan: in forest zone of Zailiyskiy Alatau 25 km S village Turgen'); Ljubomirov and Ban-Calefariu, 2008:204 (Romania: Maramureş District: Bistra); Ljubomirov and Yildirim, 2008:167 (in catalog of Crabronidae of Turkey); Nemkov, 2008b:17 (in catalog of Crabronidae of Asiatic Russia); Theunert, 2008:50 (Germany: map of distribution in Niedersachsen and Bremen); Archer, 2009:24 (Great Britain: Yorkshire: Sheffield); Donie, 2009:9 (Germany: Niedersachsen: Oldenburg); U. Frommer, 2009a:28 (Germany: in checklist of Sphecidae of Hessen); Kowalczyk, Kurzac, and Nadolski, 2009:63 (Poland: between Warta and Widawka rivers); Ma and Li, 2009:209 (in key to Chinese *Mimumesa*, first record from China: several localities); Mokrousov, 2009:294 (Russia: Republic Mari El); Nemkov, 2009b:55 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia); Pagliano, 2009:186 (Italy: Lazio: Capena; Sicilia: Monte Etna); Straka, Dvořák, and Bogusch, 2009:262 (Czech Republic: Jizerské Mountains and Frýdlant region); Archer, 2010a:52 (Great Britain: Watsonian Nottinghamshire: Spalford Warren); Ermilov and Mokrousov: 2010:91 (phoretic mites *Imparipes haeseleri*, *Schwiebea crabronis*, *Schwiebea nova*, and undetermined Gamasoidea and Uriopodoidea in Middle Volga Region of Russia); Esser, Fuhrmann, and Venne, 2010:37 (Germany: in checklist of aculeates of Nordrhein-Westfalen); Falk, 2010:93 (Great Britain: heathland sites in West Midlands region); Hable, von der Dunk, and Knipfer, 2010:65 (Germany: Bayern: vicinity of Dietfurt); Jakubzik and Cölln, 2010:1187 (Germany: Rheinland-Pfalz: Bruchertseifen near Altenkirchen); Jakubzik, Kinkler, and Cölln, 2010:155 (Germany: Rheinland-Pfalz: Leverkusener-Steinbüchel); Johansson, 2010:121 (Sweden: Småland: upper Emå river valley); J. Kim and Yang, 2010:145 (in checklist of Korean Pemphredoninae); Mokrousov, 2010a:63 (Russia: Kirov, Kostroma, Nizhniy Novgorod, and Yaroslavl' Oblast's, Chuvash Republic, Mari El Republic: no specific localities), 2010c:108 (Russia: Chuvash Republic: State Nature Reserve "Prisurskiy" and National Park "Chavash varmane"); Rudoiskatel', 2010:153 (Russia: central and southern Ural Mountains); Saure, 2010a:88 (Germany: Berlin-Reinickendorf: Baumberge); Schmid-Egger, 2010a:16 (in red list of Aculeata of Germany: relatively common); Schmidt, 2010:136 (Germany: Bayern: collected along Main-Donau canal); Shorenko and Konovalov, 2010:25 (Ukraine: Dnepropetrovsk Oblast': village of Rayevka); van der Smissen, 2010a:344 (Germany: Schleswig-Holstein and Mecklenburg-Vorpommern: locality records), 2010c:397 (Sweden: Öland: Rönnerum; Södermanland: Ören, Rassa); Archer, 2011a:42 (Great Britain: Yorkshire: Strensall Common); Baghirov, 2011b:153 (Russia: Altayskiy Krai: Savvushka); Gogala, 2011:9 (Slovenia); Józán, 2011:179 (in checklist of Sphecidae s.l. of Hungary); Mokrousov, Berezin, and Egorov, 2011:81 (Russia: Chuvash Republic); Saure, 2011a:6 (Germany: Berlin: former airport Tempelhof); Schmid-Egger, 2011c:556 (Austria: Tirol: Tiroler Lech Nature Park); Theunert, 2011a:20 (Germany: in checklist of aculeates of Niedersachsen including city of Bremen); Tischendorf, Frommer, Flügel et al., 2011:145 (Germany: Hessen: not endangered); Archer, 2012:183 (Great Britain: urban York); Boillat, 2012:228 (Switzerland: in checklist of insects of Canton de Genève); Cölln, Jakubzik, and Kinkler, 2012:25 (Germany: Nordrhein-Westfalen: Leverkusen); Gerth, Mayer, Hering, Wolf, Schaffer, and Bleidorn, 2012:9 (Germany: Sachsen: Bienitz in Leipzig); Nemkov, 2012c:435 (in catalog of Crabronidae of Russian Far East); Shlyakhtenok, 2012a:171 (Belarus', and Russia: Krasnaya Polana near Sochi: collected in private plots), 2012b:92 (Belarus': Beresina National Reserve: overgrowing dry meadow); Strumia, Pagliano, and Gayubo, 2012:56 (Italy: Toscana: Riserva di San Rossore); Terayama and Gōkon, 2012:3, 4, 15 (in key to Psenini of Japan, in Japanese), 28 (in list of Japanese Psenini); Bitsch, Grouet, and Savina, 2013:292 (France département d'Aude: au nord du col de Pradel); Dyuzhaeva, 2013:117 (Russia: Samara Oblast': Zhiguli Nature Reserve); Mokrousov, Ruchin, and Egorov, 2013:203 (Russia: Mordovian Republic: Mordovian State Nature Reserve); Pankov, 2013:231 (Russia: Ivanovo Oblast'); Shlyakhtenok, 2013:139 (in annotated catalog of aculeate wasps of Belarus'); Zettel, Zimmermann, and Wiesbauer, 2013:12 (Austria: Wien: Donaupark); Bitsch, 2014:409 (France: Aude: col du Pratel); U. Frommer, 2014:27 (Germany: Hessen: Lorch); Hellqvist, Abenius, and Norén, 2014:94 (in catalog of Ampulicidae, Sphecidae, and Crabronidae of Sweden, by provinces); J.-K. Kim, 2014:444 (in catalog of Sphecidae s.l. of Korean Peninsula); Yildirim, Ljubomirov, and Lelej, 2014:9 (distri-

bution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:147 (in checklist of Hymenoptera of Turkey); P. Rosa and Pagliano, 2015:103 (Italy: Lombardia and Piemonte: Parco del Ticino); Else, Bolton, and Broad, 2016:43 (in checklist of Aculeata of Great Britain and Ireland: England, Scotland, Wales); Mokrousov and Popov, 2016:589 (Russia: Krasnodarskiy Krai); Saure, 2016b:49 (Germany: Sachsen-Anhalt: fruit orchards); Stolle and Saure, 2016:923 (Germany: in list of Sphecidae s.l. of Sachsen-Anhalt); Vas, Szöllösi-Tóth, and Muskovits, 2016:154 (Romania: Sălaj County); Flügel, 2017:5 (Germany: Rheinland-Pfalz: Eschkopf); Magdalou, 2017:15 (France: Pyrénées-Orientales: Réserves Naturelles Catalanes: Julols); Mokrousov, 2017e:251 (in catalog of Pemphredoninae of Russia); Shorenko, 2017:78 (in Crimea collected in July).

ssp. *pacifica* (Tsuneki)

As *Psen dahlbomi*: Tsuneki, 1954c:52 (Japan), corrected to *Psen dahlbomi pacificus* by Tsuneki, 1959g:59.

Psen dahlbomi pacificus Tsuneki, 1959g:59, ♀, ♂. Holotype: ♂, Japan: Honshu: Fukui Prefecture: Nishitanimura (originally K. Tsuneki coll., now ?). – Tsuneki, 1959g:49, 51 (in key to *Psen* of Japan and Korea); Tsuneki and Shimoyama, 1963:49 (Japan: Towada Prefecture); van Lith, 1965:64 (bibliographic reference, comments on Gussakovskij's records); Haneda, 1968a:44 (Japan); Okuno, 1968:32 (Japan); Tano, 1968:33 (Japan); van Lith, 1968:133 (in list of subgenus *Mimumesa*); Itami, 1969:48 (Japan: Niigata Prefecture); Tsuneki, 1969e:26 (Japan: specimens in Osaka Museum of Natural History), 1970b:10 (central Japan); Nambu, 1975b:66 (Japan: Saitama Prefecture). – As *Mimumesa dahlbomi pacifica*: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Kazenas, 1980e:88 (Russia: Far East; as *pacifica*); Haneda, Nosaka, Tano, Kurokawa, and Murota, 2004:30 (Japan: Gifu Prefecture); Suda, 2004:38 (Japan: Yamanashi Prefecture); Haneda, Nozaka, Tano, Kurokawa, and Murota, 2005:43 (Japan: Gifu Prefecture); Negoro, Haneda, and Tano, 2005:44 (Japan: Toyama Prefecture); Haneda, Nozaka, Tano, Kurokawa and Murota, 2006a:19 (Japan: Toyama Prefecture); Terayama and Gōkon, 2012:15 (in key to *Psenini* of Japan, in Japanese).

9. *fuscipes* (Packard)

Psen fuscipes Packard, 1867:402, ♀. Holotype or syntypes: ♀, USA: Massachusetts: no specific locality (depository?). – Cresson, 1887:283 (in catalog of North American Hymenoptera); Dalla Torre, 1897:348 (in catalog of world Hymenoptera); W. Fox, 1898:10 (in revision of North American *Psen*); Ashmead, 1899d:225 (in checklist of North American Crabronidae). – As *Mimesa fuscipes*: Viereck, 1901b:342 (new combination, in checklist of North American *Psenini*); Krombein *in* Muesebeck et al., 1951:961 (in catalog of North American Hymenoptera, as new combination). – As *Mimumesa fuscipes*: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1597 (in catalog of North American Hymenoptera).

10. *interstitialis* (Cameron)

Psen interstitialis Cameron, 1908c:233, ♂. Holotype or syntypes: ♂, USA: New Mexico: no specific locality (BMNH). – Malloch, 1933:26 (in revision of North American *Psenini*). – As *Mimesa interstitialis*: Krombein *in* Muesebeck et al., 1951:961 (new combination, in catalog of North American Hymenoptera)– As *Mimumesa interstitialis*: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1597 (in catalog of North American Hymenoptera).

11. *johnsoni* (Viereck)

Mimesa johnsoni Viereck, 1901b:340, ♀, ♂. Lectotype: ♂, USA: New Jersey: Riverton (originally H. Viereck coll., now ANSP), designated by Cresson, 1928:50. – Viereck, 1901b:342 (in checklist of North American *Psenini*); Krombein, 1951a:143 (Virginia: Dunn Loring; visiting tulip-tree honeydew); Krombein *in* Muesebeck et al., 1951:961 (in catalog of North American Hymenoptera); Krombein, 1956b:154 (West Virginia: Lost River State Park), 1958f:189 (in supplement to catalog of North American Hymenoptera: West Virginia). – As *Psen johnsoni*: J. Smith, 1910:675 (new combination, in new list of insects of New Jersey); J.Ch. Bradley, 1928:1013 (in catalog of

New York Sphecidae); Malloch, 1933:19 (in revision of North American Psenini). – **As *Mimumesa johnsoni***: R. Bohart and Menke, 1976:164 (in checklist of world Sphecidae); Krombein, 1979b:1597 (in catalog of North American Hymenoptera).

12. *leucopus* (Say)

Psen leucopus Say, 1837:370, ♀, ♂. Holotype or syntypes: USA: Indiana: no specific locality (lost). – Le Conte, 1859b:753 (original description copied); Cresson, 1862:235 (in catalog of North American Hymenoptera); Packard, 1867:398 (in revision of North American Sphecidae); Provancher, 1883b:649 (in revision of Canadian Hymenoptera); Cresson, 1887:283 (in catalog of North American Hymenoptera); Ashmead, 1890:32 (in checklist of Hymenoptera of Colorado); Dalla Torre, 1897:348 (in catalog of world Hymenoptera); W. Fox, 1898:7 (in revision of North American *Psen*); J. Smith, 1900:516 (in list of insects of New Jersey), 675 (in new list of insects of New Jersey); J.Ch. Bradley, 1928:1013 (in catalog of New York Sphecidae); Malloch, 1933:20 (in revision of North American Psenini); Strickland, 1947:127 (Canada: Alberta: Athabasca). – **As *Mimesa leucopus***: Ashmead, 1899d:224 (new combination, in checklist of North American Crabronidae); Viereck, 1901b:342 (in checklist of North American Psenini, as *leucops*); Krombein *in* Muesebeck et al., 1951:961 (in catalog of North American Hymenoptera, as new combination); Krombein, 1963f:274 (Maryland: Plummers Island near Washington, D.C.). – **As *Mimumesa leucopus***: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1597 (in catalog of North American Hymenoptera); Finnermore, 1982:51 (in Sphecid Fauna of Southern Quebec); nec Blades and Marshall, 1994:276 (= *Mimumesa propinqua*); Buck, 2004:24 (Canada: in checklist of Sphecidae of Ontario), 29 (distribution within Ontario), 36 (first record from Canada: list of localities).

Psen elongatus Packard, 1867:400, ♀ (actually ♂: W. Fox, 1898:7 and 8). Holotype or syntypes: ♂, USA: Illinois: no specific locality (ANSP). Synonymized with *Psen leucopus* by W. Fox, 1898:7 and 8. – Cresson, 1887:283 (in catalog of North American Hymenoptera); Dalla Torre, 1897:348 (in catalog of world Hymenoptera).

13. *littoralis* (Bondroit)

As *Mimesa unicolor*: E. Saunders, 1896:102 (in revision of Hymenoptera Aculeata of British Islands), corrected to *Psen littoralis* by van Lith, 1965:65.

Mimesa littoralis Bondroit, 1934: 61, 64, and 65 (July), ♀, ♂. Lectotype: ♂, Belgium: Ostende (Inst. Roy. Sci. Nat. Bruxelles), designated by Leclercq, 1974b:194. – Spooner, 1948:167 (in revision of British Psenini); Blüthgen, 1951:233 (certainly to be found on coast of Germany), 1954:139 (first record from Germany: Grunewald near Berlin); Hellén, 1955a:123 (Finland: Rautu, Tvärminne, Tytärsaari, recognition characters), 1956:45 (recorded from Finland); Wolf, 1959b:26 (Germany: Nassau); Preuss, 1980b:113 (Germany: first record from Rheinland-Pfalz: Birkenheide 7 km E Bad Dürkheim); Schmid-Egger, Risch, and Niehuis, 1995:194 (Germany: summary of records from Rheinland-Pfalz). – **As *Psen littoralis***: de Beaumont, 1937:53 (new combination, in revision of Palearctic Psenini); van Lith, 1949:135 (first record from Netherlands: Rozenburg, Hoek van Holland; redescription), 142 and 144 (in key to European *Mimumesa*), 145 (collecting localities in Netherlands, Belgium, France, Denmark, Sweden, and Great Britain); Fahlander, 1953:64 (Sweden); Tsuneki, 1954c:53 (Japan: Hokkaido, Honshu); Benno, 1958b:17 (in review of Dutch Sphecidae); Pulawski, 1958a:186 (Bulgaria: Varna); Tsuneki, 1959g:49, 51 (in key to *Psen* of Japan and Korea), 1959g:56 (Japan; redescription); Noskiewicz and Puławski, 1960:50, 52 (in key to Polish Sphecidae); Valkeila, 1962b:67 (southwestern Finland); van Lith, 1965:65 (listed, bibliographic references); Benno, 1967:38 (in checklist of Sphecidae of Netherlands); Tsuneki, 1967e:10 (China: Manchuria: Harbin); Nishino, 1968:25 (Japan); Itami, 1969:49 (Japan: Niigata Prefecture); Tsuneki, 1969e:26 (Japan: specimens in Osaka Museum of Natural History); Haneda, 1970:12 (Japan: Akita Prefecture); Tsuneki, 1970b:10 (central Japan); Lefebber, 1971b:223 (Netherlands); Oehlke, 1970:728 (Democratic Germany); Lefebber, 1971a:17 (Netherlands: Schinveld), 1971b:223 (Netherlands: St. Michielsgestel); Yamada, 1971:36 (Japan: Aichi Prefecture); Balthasar, 1972:248 (in Sphecid Fauna of Czechoslovakia: may be expected in the country); Tsuneki, 1972a:177 (Mongolia); Lomholdt, 1973a:105 (Denmark: Skallingen Peninsula); Kazenas, 1974b:109 (feeding on flowers of *Euphorbia* spp., *Euphor-*

biaceae, in Kazakhstan); Leclercq, 1974b:194 (data on type series); Tsuneki, 1974a:366 (Korea); Nambu, 1975b:66 (Japan: Saitama Prefecture); Lefeber, 1976:152 (Netherlands: Land van Saeftinge, Zuidslloe); Haeseler, 1977:a26 (Germany: Friesian Islands: island of Norderney), 1978c:195 (Germany: Friesian Islands: island of Borkum); Kazenas, 1978b:149, 150 (in key to Sphecidae of Kazakhstan and Central Asia); Pulawski, 1978:233, 236y (in key to Sphecidae of European part of former USSR); Richards, 1980:62 (in key to Sphecidae of British Isles); Felton, 1981:83 (Great Britain: Kent); Haeseler, 1981:52 (Germany: Friesian Island: island of Amrum); Tsuneki, 1982b:15 (known from Korea); Paik, 1985:198 (in list of Sphecidae of Korea); Pádr *in* Šedivy, 1989a:168 (in checklist of Czechoslovakian Sphecidae); Pankevich, Belyavskaya, Molchanova, Shlyakhtenok, and Blinov, 1989:96 (Belarus: Berezinskiy Nature Reserve); Kuznetzova, 1990:21 (Russia: Voronezh Oblast: Galich'ya Gora Nature Reserve); Tsuneki, 1991:200 (Korea); Yeo and Corbet, 1995:35 (in field guide to British solitary wasps). – **As *Mimumesa littoralis***: Lomholdt, 1975c:157 (new combination, in Sphecid Fauna of Fennoscandia and Denmark); R. Bohart and Menke, 1976:164 (in checklist of world Sphecidae); Petit, 1978:87 (Belgium: Paal, Hulst); Kazenas, 1980e:88 (Russia: Far East; determination tentative); Lefeber, 1983a:84 (Netherlands: Waddendistrict: island of Terschelling); Schmidt, 1984:242 (Germany: Baden-Württemberg); Veenendaal, 1984:18 (Netherlands: Amsterdam); Haeseler, 1985c:571 (Germany: Friesian Islands); Westrich and Schmidt, 1985b:111 (Germany: endangered in Baden-Württemberg); Józán, 1986:368 (Hungary: Kiskunság National Park); Nemkov, 1986:93 (Russia: Irkutsk Oblast); Vikberg, 1986b:75 (Finland); Lomholdt, 1987:93 (Denmark: western Jutland: Skallingen Peninsula); Haeseler, 1988:211 (Germany: Friesian Islands); Riemann, 1988:223 (Germany: Bremen area); Józán, 1989:101 (Hungary: Tihany Nature Reserve); Nilsson, 1989:47 (Sweden); Budrys, 1990:945 (in revision of *Mimumesa* of USSR); Jacobs and Oehlke, 1990:139 (new records from Democratic Germany); Schwammberger and Priesner, 1990:534 (Austria: Kärnten); Day, 1991:xvi (summary of European Endangered Hymenoptera Lists); Dollfuss, 1991:40 (in key to Sphecidae of North and Central Europe); Haeseler, 1992:358 (in North Germany found only on eastern Friesian Islands); Else and Felton, 1994:108 (comparison with *Mimumesa unicolor*), 111 (faunal records from Great Britain); Theunert, 1994c:43 (Germany: summary of records from Niedersachsen and Bremen); Budrys *in* Nemkov, Kazenas, Budrys, et Antropov, 1995:391 (in key to Sphecidae of Russian Far East); Kazenas and Esenbekova, 1995:79 (Kazakhstan; bibliographic reference to leafhopper prey); Negrisolo *in* Minelli, Ruffo, and La Posta, 1995b:10 (in catalog of Italian fauna); K. Schmidt, Schmid-Egger, and Doczkal, 1995:8 (relationship to *Mimumesa unicolor* is unclear); Schmid-Egger, Schmidt, and Doczkal, 1996:377 (Germany: Baden-Württemberg: endangered); Voblenko, Gorobchishin, and Nesterov, 1996:14 (Ukraine: Polesye Region); Celary, 1997:57 (in checklist of Animals of Poland); Schmidt and Schmid-Egger, 1997:18 (in checklist of German Sphecidae); Drewes, 1998:49 (Germany: Niedersachsen: Goldbeck 26 km WSW Hamburg); Luig and Voolma, 1999:175 (first record from Estonia: Elva, Saverna); Pauly, 1999:108 (in catalog of Belgian aculeates); Petit, 1999:112 (Netherlands: Hulst, Nieuw-Namen); Blösch, 2000:149 (in Sphecid Fauna of Germany); Esenbekova and Kazenas, 2000:15 (southeast Kazakhstan: no specific locality); Kazenas, 2000e:51 (in Sphecid Fauna of Kazakhstan); Budrys, 2001b:178 (locality records), 187 (review of synonymy), 188 (in key to *Mimumesa littoralis* and *unicolor*); Dollfuss and Bitsch *in* Bitsch et al., 2001:34 (in Sphecid Fauna of Western Europe); Józán, 2001:278 (Hungary: Somogy County); Kazenas, 2001:20 (in checklist of Sphecidae of Kazakhstan and Central Asia), 117 (review of known biology); Ohl et al., 2001:140 (distribution in Germany by provinces); van der Smissen, 2001:61 (Germany: Schleswig-Holstein: extinct); Kazenas, 2002a:43 (geographic distribution, collecting localities in Kazakhstan); Shlyakhtenok and Skibińska, 2002:32 (Belarus: no specific locality); van der Smissen, 2002:212 (Germany: Schleswig-Holstein: Damsdorf); Kurokawa, 2003:61 (Japan: city of Fukui: Egamichou); Ohl and Linde, 2003:149 (number of ovarioles); Dathe and Blank, 2004:181 (Germany: Schleswig-Holstein, addition to Ohl et al., 2001); Dollfuss, 2004a:110 (Kazakhstan, Kyrgyzstan; Russia: Tyva: 10 km NE Erzín); Skibińska *in* Bogdanowicz, Chudzicka, Pilipiuk, and Skibińska, 2004:356 (in catalog of Polish Crabronidae); van Achterberg and Peeters, 2004:32 (in checklist of Sphecidae of Netherlands); Wiśniowski, 2004:39 and 58 (in checklist of Polish Sphecidae); Edwards and Broad, 2005:60 (Great Britain: distribution, status, habitat, flight period, prey, nesting habits, flower visiting, parasites, and

distribution map); Haneda, Inoue, Nozaka, Tano, Kurokawa, and H. and T. Murota, 2005:64 (Japan: Fukui Prefecture: Mount Monju); Nazarova, 2005:93 (alfalfa fields in southwestern Tajikistan); Negoro, Haneda, and Tano, 2005:44 (Japan: Toyama Prefecture); Nemkov, 2005a:144 (Russia: island of Sakhalin); Pagliano and Negrisolo, 2005:434 (in Sphecidae Fauna of Italy); Riemann and Hohmann, 2005:560 (Germany: Niedersachsen: city of Bremen and adjacent area); Robinson, 2005:37 (Great Britain: Cumbria County); Saure, 2005:16 (Germany: Berlin); Theunert, 2005a:17 (Germany: in checklist of Sphecidae of Niedersachsen and Bremen); Ljubomirov, 2006:541 (Bulgaria: Rhodope Mountains: village of Nikolovo); Józán, 2006:284 (Hungary: Balatonföldvár, Marcali, Mernye); Liebig, 2006:39 (Germany: Sachsen: Muskauer Heide); Nemkov, 2006b:166 (Russia: Primorskiy Krai: Kedrovaya Pad' Nature Reserve); Saure, 2006:132 (Germany: Berlin); Shlyakhtenok, 2006:110 (Belarus': Polesye Radiological Nature Reserve); Bitsch, Dollfuss, Bouček, Schmidt, Schmid-Egger, Gayubo, Antropov, and Barbier, 2007:462 (prey according to Else and Felton, 1994: Hemiptera Cicadellidae: *Macrosteles* sp., and Delphacidae: *Chloriona* sp.); Herrmann, 2007a:52 (Germany: Niedersachsen: Ostfriesland); Jacobs, 2007:52, 55 (in key to Crabronidae of Germany); Jacobs and Kroupa, 2007:326 (in partial key to European *Mimesa* including *longicornis*); Nemkov, 2007c:997 (in Appendix to Key to identification of Sphecidae of Far East of Russia); Ohkusa, 2007:34 (Japan: central Honshu: Aichi Prefecture); Saure, 2007:82 (Germany: in checklist of Aculeata of Land Brandenburg); Vago, 2007:174 (France: départements Pas-de-Calais); Vepřek and Straka, 2007:199 (in catalog of Sphecidae of Czech Republic and Slovakia, known from Moravia and Slovakia only); Winkler, 2007:30 (Germany: Niedersachsen: eastern Friesland); Archer, 2008a:144 (Great Britain: Cumbria: Sandcastle Haws); Haeseler, 2008:308 (Germany: Friesian Islands); Ohkusa and Tajima, 2008:74 (Japan: central Honshu: Aichi Prefecture); Nemkov, 2008b:17 (in catalog of Crabronidae of Asiatic Russia); Theunert, 2008:51 (Germany: map of distribution in Niedersachsen and Bremen); Zettel, Wiesbauer, and Zimmermann, 2008:135 (Austria: Niederösterreich: Drösing an der March); Ma and Li, 2009:209 (in key to Chinese *Mimumesa*); Nemkov, 2009b:55 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia); Pagliano, 2009:187 (Italy: Toscana: Venturina); Howe, Knight, and Clee, 2010:100 (United Kingdom: occurring on coastal sand dunes); J. Kim and Yang, 2010:145 (in checklist of Korean Pemphredoninae); Mokrousov, 2010a:63 (Russia: Kostroma and Yaroslavl' Oblast's: no specific localities); Ohkusa and Tajima, 2010:11 (Japan: island of Honshu: Shiga Prefecture); Rudoiskatel', 2010:153 (Russia: central and southern Ural Mountains); Saure, 2010b:175 (Germany: Berlin-Reinickendorf: airport Tempel and Flughafensee Protected Area); Schmid-Egger, 2010a:16 (in red list of Aculeata of Germany: very rare); van der Smissen, 2010a:344 (Germany: Schleswig-Holstein: Damsdorf); Baghirov, 2011b:153 (Russia: recorded from Altay by Nemkov in Nemkov, Kazenas, Budrys, and Antropov, 1995); Bogusch, Straka, Macek, Dvořák, Vepřek, and Říha, 2011:95 (Czech Republic: Bzenec-Prívov, Bukovina nad Labem, Chvaletice); Józán, 2011:179 (in checklist of Sphecidae s.l. of Hungary); Theunert, 2011a:20 (Germany: in checklist of aculeates of Niedersachsen including city of Bremen); Wiesbauer and Zettel, 2011:269 (Austria: Niederösterreich: March = Morava lowland); Nemkov, 2012c:435 (in catalog of Crabronidae of Russian Far East); Shlyakhtenok, 2012b:92 (Belarus': Beresina National Reserve: overgrowing dry meadow); Terayama and Gōkon, 2012:3, 4, 16 (in key to Psenini of Japan, in Japanese), 28 (in list of Japanese Psenini); Bitsch, 2014:409 (reference to Budrys, 2001); Hellqvist, Abenius, and Norén, 2014:94 (in catalog of Ampulicidae, Sphecidae, and Crabronidae of Sweden, by provinces); J.-K. Kim, 2014:445 (in catalog of Sphecidae s.l. of Korean Peninsula); Else, Bolton, and Broad, 2016:44 (in checklist of Aculeata of Great Britain and Ireland: England, Wales, Ireland); U. Frommer, 2016:3 (Germany: first record from Hessen: Pohlheim at 50°37'15"N 08°39'50"E); Stolle and Saure, 2016:923 (Germany: in list of Sphecidae s.l. of Sachsen-Anhalt); Mokrousov, 2017e:251 (in catalog of Pemphredoninae of Russia).

Psen fulvitorsis Gussakovskij, 1934b:82 (31 Dec.), ♀, ♂. Syntypes: Japan: Honshū: Ikeda near Osaka, and Kyushū: Mount Sobo (Fukui Univ.).

Psen fulvitorsis Gussakovskij, 1937:663, ♀, ♂. Objective synonym of *Psen fulvitorsis* Gussakovskij, 1934. Synonymized with *Psen unicolor* by de Beaumont, 1941a:328 and with *Mimumesa littoralis* by Leclercq, 1954c:285. – Balthasar, 1948:140 (first record from Czechoslovakia: Slovakia: Kovačov, Parkan); Zavadil in Zavadil and

Šnoflák, 1948:142, 143 (in key to Sphecidae of Czechoslovakia); Bajári, 1957a:72, 73 (in key to Hungarian Sphecidae), 1957b:137 (first record from Hungary); Benedek, 1968:74 (Hungary, floral records), 1969a:84 (Hungary; marshy meadow), 1970:99 (Hungary: Tapolca); Balthasar, 1972:246 (in Sphecid Fauna of Czechoslovakia); Benedek, 1979:232 (Hungary: Bakony Hills); Budrys, 1990:945 (incorrect designation of lectotype: ♂, Russia: Ryazan Oblast': Gremyachka (ZIN). – **As *Mimesa fulvitaris***: Iwata, 1938b:21 (new combination, nesting habits).

Mimesa celtica Spooner, 1948:164, ♀, ♂. Syntypes: Great Britain (Devon, Wales) and eastern Ireland: many localities (BMNH, Dublin Mus., OXUM). Synonymized with *Psen littoralis* by van Lith, 1949:136. – Richards, 1952:142 (Great Britain: Anglesea); Felton, 1974:409 (map of distribution in Great Britain).

As *Psen kashmirensis* Nurse, 1903:520, paralectotypes only (India: Kashmir), corrected to *Mimumesa littoralis* by Budrys, 2000:65.

14. *longicornis* (W. Fox)

Psen longicornis W. Fox, 1898:8, ♂. Holotype: ♂, USA: Florida: no specific locality (ANSP). – J. Smith, 1910:675 (in new list of insects of New Jersey); J.Ch. Bradley, 1928:1013 (in catalog of New York Sphecidae); Malloch, 1933:23 (in revision of North American Psenini); Brimley, 1938:445 (North Carolina: Raleigh). – **As *Mimesa longicornis***: Ashmead, 1899d:225 (new combination, in checklist of North American Crabronidae); Viereck, 1901b:340 (New Jersey: Westville), 342 (in checklist of North American Psenini); Cresson, 1928:50 (holotype in ANSP); Krombein *in* Muesebeck et al., 1951:961 (in catalog of North American Hymenoptera); Krombein and Evans, 1955:232 (Florida); Krombein, 1963f:275 (Maryland: Plummers Island near Washington, D.C.); L. Davis, 1978:217 (North Carolina: Carteret County: Bogue Banks). – **As *Mimumesa longicornis***: Alayo Dalmau, 1976:24 (new combination, in checklist of Cuban Sphecidae); R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1597 (in catalog of North American Hymenoptera); Ahlstrom, 1995:107 (in checklist of insects of North Carolina); Cambra and Santos, 2000:53 (first record from Panama: Parque Nacional Coiba in Isla de Coiba, Pacific Ocean); Amarante, 2002:54 (in catalog of Neotropical Crabronidae); Buck, 2004:24 (Canada: in checklist of Sphecidae of Ontario), 29 (distribution within Ontario), 36 (first record from Canada: Ontario and New Brunswick: list of localities); Genaro, 2006:57 (in checklist of Cuban Sphecidae and Crabronidae; also: North and Central America); Hua, 2006:281 (in list of Chinese insects, geographic distribution); Jacobs and Kroupa, 2007:324 (first record from Azores: island of São Miguel: Ginetes and Praia), 2007:326 (in partial key to European *Mimesa* including *longicornis*); Bitsch, 2014:409 (reference to Jacobs and Kroupa, 2007); .

Mimesa striata Viereck, 1901b:339, ♀ (as *striatus*, incorrect original termination. Holotype: ♀, USA: New Jersey: Westville (H. Viereck coll., ANSP). Synonymized with *Mimesa longicornis* by Krombein *in* Muesebeck et al., 1951:961. – Viereck, 1901b:342 (in checklist of North American Psenini, as *striatas*); Cresson, 1928:51 (holotype in ANSP). – **As *Psen striatus***: J. Smith, 1910:675 (new combination, in new list of insects of New Jersey); Malloch, 1933:23 (in revision of North American Psenini).

Psen floridanus Rohwer, 1910c:102, ♀ (as *floridana*, incorrect original termination). Holotype: ♀, USA: Florida: Biscayne Bay (USNM). Synonymized with *Psen longicornis* by Malloch, 1933:23.

15. *mandibularis* (H. Smith)

Mimesa mandibularis H. Smith, 1908:392, ♀. Holotype: ♀, USA: Nebraska: Sioux County: Glen (UNL). – Mickel, 1918b:361 (in catalog of Nebraskan Sphecidae); Krombein *in* Muesebeck et al., 1951:961 (in catalog of North American Hymenoptera); Muma, 1952:19 (type in UNL). – **As *Mimumesa mandibularis***: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1597 (in catalog of North American Hymenoptera).

16. melanosomatica Ma and Q. Li

Mimumesa melanosomatica Ma and Q. Li, 2009:162, ♀, ♂. Holotype: ♀, China: Yunnan: Dali (Yunnan Agricultural University, Kunming). – Ma and Q. Li, 2009:209 (in key to Chinese *Mimumesa*).

17. mellipes (Say)

Psen mellipes Say, 1837:369, ♀. Holotype or syntypes: USA: Indiana: no specific locality (lost). – Le Conte, 1859b:753 (original description copied); Cresson, 1862:235 (in catalog of North American Hymenoptera); Packard, 1867:403 (in revision of North American Sphecidae, bibliographic citation only); Cresson, 1887:283 (in catalog of North American Hymenoptera); Dalla Torre, 1897:348 (in catalog of world Hymenoptera); W. Fox, 1898:8 (original description copied, description of ♂); J. Smith, 1900:516 (in list of insects of New Jersey); J.Ch. Bradley, 1928:1013 (in catalog of New York Sphecidae); Hendrickson, 1930:158 (Iowa); Malloch, 1933:22 (in revision of North American Psenini); Krombein, 1939:141 (New York: Long Island). – **As *Mimesa mellipes***: F. Smith, 1856:431 (new combination, in catalog of Hymenoptera in British Museum); Ashmead, 1899d:225 (in checklist of North American Crabronidae); Viereck, 1901b:342 (in checklist of North American Psenini); Mickel, 1918b:361 (in catalog of Nebraskan Sphecidae); Krombein *in* Muesebeck et al., 1951:961 (in catalog of North American Hymenoptera, as new combination). – **As *Mimumesa mellipes***: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1597 (in catalog of North American Hymenoptera); Finnamore, 1982:52 (in Sphecid Fauna of Southern Quebec); Buck, 2004:24 (Canada: in checklist of Sphecidae of Ontario), 29 (distribution within Ontario), 37 (first record from Ontario: Flamborough, Guelph, Ottawa).

Psen chalcifrons Packard, 1867:401, ♀. Lectotype: ♀, USA: Illinois: no specific locality (ANSP), designated by Cresson, 1928:51. Synonymized with *Psen mellipes* by Krombein *in* Muesebeck et al., 1951:961 – Cresson, 1887:283 (in catalog of North American Hymenoptera); Dalla Torre, 1897:347 (in catalog of world Hymenoptera); W. Fox, 1898:13 (in revision of North American *Psen*); Malloch, 1933:25 (in revision of North American Psenini). – **As *Mimesa chalcifrons***: Ashmead, 1899d:224 (new combination, in checklist of North American Crabronidae); Viereck, 1901b:342 (in checklist of North American Psenini); Mickel, 1918b:361 (in catalog of Nebraskan Sphecidae).

18. mishimae (Tsuneki)

Psen mishimae Tsuneki, 1984d:58, ♀ (subgenus *Mimumesa*). Holotype: ♂, Japan: Mishima: Motoyamanaka (originally K. Tsuneki coll., now Hyogo Mus.). – Tano, 1994a:4 (holotype in K. Tsuneki collection); Hashimoto and Nakaniishi, 1997:26 (holotype transferred to Hyogo Mus.); Terayama and Gōukon, 2012:3, 16 (in key to Psenini of Japan, in Japanese), 28 (in list of Japanese Psenini).

19. mixta (W. Fox)

Psen mixtus W. Fox, 1898:7, ♀, ♂. Lectotype: ♀, USA: Washington: no specific locality (ANSP), designated by Cresson, 1928:51. – Malloch, 1933:21 (in revision of North American Psenini); Strickland, 1947:127 (Canada: Alberta: Banff). – **As *Mimesa mixta***: Ashmead, 1899d:224 (new combination, in checklist of North American Crabronidae); Viereck, 1901b:342 (in checklist of North American Psenini); Stevens, 1917:423 (North Dakota); Krombein *in* Muesebeck et al., 1951:961 (in catalog of North American Hymenoptera, as new combination). – **As *Mimumesa mixta***: Evans, 1970:486 (new combination, Wyoming: Jackson Hole); Horning and Barr, 1970:103 (USA: Idaho: Craters of the Moon National Monument); R. Bohart and Menke, 1976:164 (in checklist of world Sphecidae); Krombein, 1979b:1597 (in catalog of North American Hymenoptera); Rosenheim and Grace, 1987:351-355 (nesting habits); Ratzlaff, 2016:27 (Canada: British Columbia: from Krombein, 1979).

Psen alticola Viereck, 1903:66, ♀. Holotype: ♀, USA: New Mexico: Beulah (ANSP). Synonymized with *Psen mixtus* by Malloch, 1933:21. – Cresson, 1928:50 (holotype in ANSP).

Psen similis Rohwer, 1910c:101, ♂. Holotype: ♂, USA: Colorado: Teller County: Florissant (USNM). Synonymized with *Psen mixtus* by Malloch, 1933:21.

20. modesta (Rohwer)

Psen modestus Rohwer, 1915:244, ♂. Holotype: ♂, Puerto Rico: Mayaguez (USNM). – Malloch, 1933:25 (in revision of North American Psenini); Wolcott, 1951:839 (in review of insects of Puerto Rico; as *modesta*). – **As *Mimesa modesta***: Alayo Dalmau, 1973:181 (new combination, in catalog of Cuban Hymenoptera). – **As *Mimumesa modesta***: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Amarante, 2002:54 (in catalog of Neotropical Crabronidae); Starr and Hook, 2003:21 (in catalog of Aculeata of Trinidad, West Indies).

spp. mallochi (Amarante)

Psen modestus reticulatus Malloch, 1933:26, ♂, junior primary homonym of *Psen reticulatus* Cameron, 1902. Holotype: ♂, Trinidad: Caroni River (USNM). – **As *Mimumesa modesta reticulata***: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Callan, 1990b:19 (in checklist of Trinidad Sphecidae); Amarante, 2002:54 (in catalog of Neotropical Crabronidae).

Mimesa [sic] *modesta mallochi* Amarante, 2005a:1 and 12. Substitute name for *Psen modestus reticulatus* Malloch, 1933.

21. nigra (Packard)

Psen niger Packard, 1867:399, ♂. Lectotype: ♂, USA: Virginia: no specific locality (ANSP), designated by Cresson, 1928:51. – Provancher, 1883b:649 (in revision of Canadian Hymenoptera); Cresson, 1887:283 (in catalog of North American Hymenoptera); Dalla Torre, 1897:348 (in catalog of world Hymenoptera); W. Fox, 1898:6 (in revision of North American *Psen*); J. Smith, 1900:517 (in list of insects of New Jersey), 675 (in new list of insects of New Jersey); nec Faull, 1913:384 (= *Lyroda subita* and *Pemphredon inornata*); Rohwer, 1916b:658, 659 (in catalog of Hymenoptera of Connecticut); Viereck, 1916:658 (in guide to the insects of Connecticut); Rohwer *in* Viereck, 1925:658 (in key to Sphecidae of Connecticut); J.Ch. Bradley, 1928:1013 (in catalog of New York Sphecidae); Malloch, 1933:20 (in revision of North American Psenini); A. Brown, 1934:264 (Canada: Ontario: Timagami); Brimley, 1938:445 (North Carolina: Aberdeen, Raleigh, Wenona). – **As *Mimesa nigra***: Ashmead, 1899d:224 (new combination, in checklist of North American Crabronidae, as *niger*); Viereck, 1901b:340 (Pennsylvania: Lehigh Gap), 342 (in checklist of North American Psenini); Harrington, 1902:220 (Canada: Ontario: Ottawa, as *niger*); Krombein *in* Muesebeck et al., 1951:961 (in catalog of North American Hymenoptera); Krombein, 1952b:178 (USA: West Virginia: Lost River State Park), 1954a:6 (West Virginia: Lost River State Park); Evans, 1959b:143 (description of larva); Sugar *et al.*, 1998:15 (Canada: southern Ontario). – **As *Mimumesa nigra***: R. Bohart and Menke, 1976:178 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1597 (in catalog of North American Hymenoptera); Finnamore, 1982:53 (in Sphecid Fauna of Southern Quebec); Blades and Marshall, 1994:276 (Canada: southern Ontario); Ahlstrom, 1995:107 (in checklist of insects of North Carolina); Finnamore, 1997:885 (Canada: Yukon); Buck, 2004:24 (Canada: in checklist of Sphecidae of Ontario); Giles and Ascher, 2006:231 (New York: Black Rock Forest Preserve); Ratzlaff, 2016:27 (Canada: British Columbia: from Krombein, 1979 and Buck, 2004).

22. nonstriata Ma and Q. Li

Mimumesa nonstriata Ma and Q. Li, 2009:165, ♂. Holotype: ♂, China: Xinjiang: Wushi (Institute of Zoology, Academia Sinica, Beijing). – Ma and Li, 2009:209 (in key to Chinese *Mimumesa*).

23. petiolata (F. Smith)

Psen petiolatus F. Smith, 1863a:37, ♀. Holotype or syntypes: ♀, Indonesia: Mysol, now island of Misool: no specific locality (BMNH). – F. Smith, 1863b:136 (known from Misool), 1871a:369 (in catalog of Oriental Aculeata); Dalla Torre, 1897:349 (in catalog of world Hymenoptera); van Lith, 1959:56 (discussion of identity), 1962:113 (in checklist of Indoaustralian Psenini), 1965:65 (original description copied, redescription of holotype), 1968:133 (in list of subgenus *Mimumesa*). – **As *Mimumesa petiolata***: R. Bohart and Menke, 1976:164 (tentative new combination, in checklist of world Sphecidae).

24. *propinqua* (Kincaid)

Mimesa propinqua Kincaid, 1900b:508, ♂. Holotype: ♂, USA: Alaska: Fox Point (USNM). – Ashmead, 1902:133 (Alaska: Fox Point), 1910:139 (Alaska: Fox Point); Krombein *in* Muesebeck et al., 1951:961 (in catalog of North American Hymenoptera). – **As *Psen propinquus***: Malloch, 1933:21 (new combination, in revision of North American *Psenini*). – **As *Mimumesa propinqua***: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1597 (in catalog of North American Hymenoptera); Finnamore, 1982:54 (in Sphecidae Fauna of southern Quebec); Blades and Marshall, 1994:276 (Canada: southern Ontario); Finnamore, 1994:210 (Canada: Alberta: Wagner Natural Area 8 km W Edmonton), 1997:885 (Canada: Yukon); Buck, 2004:24 (Canada: in checklist of Sphecidae of Ontario).

As *Mimumesa leucopus*: Blades and Marshall, 1994:276 (Canada: southern Ontario), corrected to *Mimumesa propinqua* by Buck, 2004:77.

25. *psychra* Pate

? *Mimesa borealis* F. Smith, 1856:431, ♂, junior primary homonym of *Mimesa borealis* Dahlbom, 1842. Holotype or syntypes: ♂, Canada: Hudson Bay: no specific locality (BMNH). – Cresson, 1862:235 (in catalog of North American Hymenoptera); Packard, 1867:408 (in revision of North American Sphecidae); Cresson, 1887:282 (in catalog of North American Hymenoptera); Dalla Torre, 1897:352 (in catalog of world Hymenoptera); W. Fox, 1898:13 (in revision of North American *Psen*); Ashmead, 1899d:224 (in checklist of North American Crabronidae); Viereck, 1901b:342 (in checklist of North American *Psenini*), nec Harrington, 1902:220 (= *Mimesa pauper*). – **As *Psen borealis***: J.Ch. Bradley, 1928:1013 (new combination, in catalog of New York Sphecidae); Malloch, 1933:40 (in revision of North American *Psenini*).

Psen psychrus Pate, 1944c:133. Substitute name for *Mimesa borealis* F. Smith. – Strickland, 1947:127 (Canada: Alberta: Edmonton, Red Deer). – **As *Mimesa psychrus***: Krombein *in* Muesebeck et al., 1951:961 (new combination, in catalog of North American Hymenoptera). – **As *Mimumesa psychra***: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1597 (in catalog of North American Hymenoptera); Finnamore, 1982:54 (as synonym of *Mimumesa propinqua*); Ahlstrom, 1995:107 (in checklist of insects of North Carolina).

26. *regularis* (W. Fox)

Psen regularis W. Fox, 1898:6, ♀. Holotype: ♀, USA: New Jersey: no specific locality (ANSP). – J. Smith, 1900:517 (in list of insects of New Jersey: “should occur in New Jersey”). – **As *Mimesa regularis***: Ashmead, 1899d:224 (new combination, in checklist of North American Crabronidae); Viereck, 1901b:339 (supplementary description), 342 (in checklist of North American *Psenini*); Cresson, 1928:51 (holotype in ANSP); Krombein *in* Muesebeck et al., 1951:961 (in catalog of North American Hymenoptera). – **As *Mimumesa regularis***: R. Bohart and Menke, 1976:164 (new combination, listed); Krombein, 1979b:1597 (in catalog of North American Hymenoptera).

27. *scutiprotruberantis* L. Ma, X. Chen, and Q. Li

Mimumesa scutiprotruberantis L. Ma, X. Chen, and Q. Li, 2010:300, ♂. Holotype: ♂, China: City of Shanghai at 31°03'N 121°46'E (Shanghai Entomological Museum, China).

28. *sibiricana* R. Bohart

Psen sibiricus Gussakovskij, 1937:664 (October), ♀, ♂, junior primary homonym of *Psen sibiricus* de Beaumont, 1937 (March). Lectotype: ♀, Russia: Irkutsk Oblast': Malta railroad station, designated by Budrys, 1990:944 (ZIN). – de Beaumont, 1941a:328 (*Psen sibiricus* Gussakovskij should be retained as valid); van Lith, 1948a:230 (first records from Netherlands: island of De Beer in Rotterdam area), 1949:141 and 143 (in key to European *Mimumesa*), 144 (unique record from Netherlands: island of De Beer in Rotterdam area); Benno, 1958b:17 (in review of Dutch Sphecidae); Noskiewicz and Puławski, 1960:49, 50 (in key to Polish Sphecidae, not yet found in Poland); Benno, 1967:38 (in checklist of Sphecidae of Netherlands); Balthasar, 1972:249 (in Sphecidae Fauna of Czechoslovakia: may

be expected in the country); van Lith, 1973a:116 (Netherlands: Ouddorp), 1974b:196 (Belgium; redescription); Lefeber, 1975a:37 (Netherlands: Boschkapelle, Land van Saeftinge; as *sibericus*); Petit, 1975:6 (Belgium: Hulst, floral records, prey: *Philaenus spumarius* L., a cercopid); Lefeber, 1976:152 (Netherlands: Land van Saeftinge); Jacobs and Oehlke, 1990:124 (in key); Schmidt and Schmid-Egger, 1997:19 (in checklist of German Sphecidae).

Mimumesa sibiricana R. Bohart in Bohart and Menke, 1976:164. Substitute name for *Psen sibiricus* Gussakovskij. – Lefeber, 1978:138 (Netherlands: Saeftinge; prey: *Paramesus obtusifrons* (Stål), a jassid); Petit, 1978:87 (Belgium: Hulst), 1979:9 (habitat, nesting habits, prey: *Parmesus obtusifrons* (Stål), a jassid, floral records, life cycle), 1980:42 (Netherlands: Saeftinge, floral records); Veenendaal, 1981:156 (Netherlands: island of Texel); Brugge, 1982:147 (Netherlands: island of Texel); Lefeber, 1983a:84 (Netherlands: Waddendistrict: Island of Texel); Haeseler, 1984:109 (Germany: island of Wangerooge), 1985c:577 (Germany: island of Wangeeroe); Riemann, 1985:21 (Germany: Niedersachsen: Norderney); Nemkov, 1986:94 (Russia: Irkutsk Oblast'); Jacobs and Oehlke, 1990:140 (unknown from Democratic Germany); Dollfuss, 1991:40 (in key to Sphecidae of North and Central Europe); Haeseler, 1992:355 (nesting between sand dunes and salt marshes on Friesian Islands), 358 (in North Germany found only on eastern Friesian Islands); Theunert, 1994c:43 (Germany: summary of records from Niedersachsen and Bremen); Budrys in Nemkov, Kazenas, Budrys, et Antropov, 1995:390 (in key to Sphecidae of Russian Far East); Haeseler, 1997:30 (Germany: Friesian Islands; nesting in coastal dunes); Pauly, 1999:108 (in catalog of Belgian aculeates); Petit, 1999:112 (Netherlands: Nieuw-Namen); Blösch, 2000:150 (in Sphecid Fauna of Germany); Dollfuss and Bitsch in Bitsch et al., 2001:34 (in Sphecid Fauna of Western Europe); Ohl et al., 2001:140 (distribution in Germany by provinces); Kuhlmann, 2004:230 (Germany is responsible for preservation of this species on its territory); van Achterberg and Peeters, 2004:32 (in checklist of Sphecidae of Netherlands); Theunert, 2005a:17 (Germany: in checklist of Sphecidae of Niedersachsen and Bremen); Jacobs, 2007:51, 53 (in key to Crabronidae of Germany); Jacobs and Kroupa, 2007:325, 326 (in partial key to European *Mimesa* including *longicornis*); Haeseler, 2008:308 (Germany: Friesian Islands); Nemkov, 2008b:17 and 2009b:56 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia); Theunert, 2008:51 (Germany: map of distribution in Niedersachsen and Bremen); Rudoiskatel', 2010:153 (Russia: central and southern Ural Mountains); Schmid-Egger, 2010a:16 (in red list of Aculeata of Germany: extremely rare); Baghirov, 2011b:153 (Russia: recorded from Altay by Nemkov in Nemkov, Kazenas, Budrys, and Antropov, 1995); Theunert, 2011a:20 (Germany: in checklist of aculeates of Niedersachsen including city of Bremen); Nemkov, 2012c:435 (in catalog of Crabronidae of Russian Far East); Mokrousov, 2017e:251 (in catalog of Pemphredoninae of Russia). – **As *Psen sibiricanus***: Pulawski, 1978:233 (new combination, in key to Sphecidae of European part of former USSR).

29. *spooneri* (Richards)

Mimesa spooneri Richards, 1948:873, ♀, ♂. Holotype: ♂, Great Britain: Surrey: Woking (BMNH). – Blüthgen, 1951:233 (can be expected in northwest Germany), 1954:140 (first record from Germany: Misdroy, now Poland: Międzyzdroje); Hellén, 1956:45 (recorded from Finland); Wolf, 1959b:26 (known from Germany, but not from Nassau); R. Bohart and Menke, 1976:164 (in checklist of world Sphecidae); Haeseler, 1984:110 (Germany: Haselund, Süderlügum). – **As *Psen spooneri***: van Lith, 1949:137 (new combination, first record from Netherlands, redescription), 141, 144 (in key to European *Mimumesa*), 145 (Netherlands: collecting localities); Benno, 1958b:17 (in review of Dutch Sphecidae); Noskiewicz and Puławski, 1960:50, 51 (in key to Polish Sphecidae); Valkeila, 1962b:67 (southwestern Finland); Benno, 1967:38 (in checklist of Sphecidae of Netherlands); Oehlke, 1970:728 (not recorded from Democratic Germany); Lefeber, 1971a:17 (Netherlands: Arcen); Balthasar, 1972:249 (in Sphecid Fauna of Czechoslovakia: may be expected in the country); Lefeber, 1973:153 (Netherlands: Ede); Lomholdt, 1973a:105 (Denmark: Enebærødde Peninsula in North Funen); Felton, 1974:409 (map of distribution in Great Britain); Petit, 1975:5 (Belgium: Genk, Gruitrode); Guichard, 1977:252 (Great Britain: Surrey County); Haeseler, 1977a:26 (Germany: Niedersachsen: Bremen area); Pulawski, 1978:233, 236 (in key to Sphecidae of European part of former USSR); Richards, 1980:62 (in key to Sphecidae of British Isles); Felton, 1981:83 (Great Britain: Kent);

Yeo and Corbet, 1995:35 (in field guide to British solitary wasps); Denton, 1998:350 (England: Hampshire); Archer and Edwards, 2002:102 (Great Britain: West Sussex: Ambersham and Iping commons). – **As *Mimumesa spooneri***: Lomholdt, 1975c:159 (new combination, in Sphecidae Fauna of Fennoscandia and Denmark); R. Bohart and Menke, 1976:164 (in checklist of world Sphecidae); Lefeber, 1978:138 (Netherlands: Arcen, Buurse, Ede, Otterlo); Leclercq, Gaspar and Verstraeten, 1979:map 1480 (Belgium); Vikberg, 1986b:75 (Finland); Riemann, 1987b:40 (Germany: Niedersachsen: Nature Reserve Dünengebiet near Neumühlen); Jacobs and Oehlke, 1990:123 and 140 (first record from Democratic Germany); Day, 1991:xvi (summary of European Endangered Hymenoptera Lists); Dollfuss, 1991:40 (in key to Sphecidae of North and Central Europe); Else and Felton, 1994:112 (locality records from Great Britain); Theunert, 1994c:44 (Germany: summary of records from Niedersachsen and Bremen); Voblenko, Gorobchishin, and Nesterov, 1996:14 (Ukraine: Polesye Region); Celary, 1997:57 (in checklist of Animals of Poland); Schmidt and Schmid-Egger, 1997:19 (in checklist of German Sphecidae); Pauly, 1999:108 (in catalog of Belgian aculeates); Blösch, 2000:150 (in Sphecidae Fauna of Germany); Budrys, 2001c:388 (first record from Lithuania: Varėna District: Čepkaliai Raistas at 54°00'N 24°30'E and 3 km S Puvočiai); Dollfuss and Bitsch *in* Bitsch et al., 2001:35 (in Sphecidae Fauna of Western Europe); Ohl et al., 2001:140 (distribution in Germany by provinces); van der Smissen, 2001:61 (Germany: Schleswig-Holstein: extinct); Esser, Jakubzik, Sonnenburg, and Woydak, 2004:263 (Germany in checklist of Sphecidae of Nordrhein-Westfalen); Kuhlmann, 2004:230 (Germany is responsible for preservation of this species on its territory); Skibińska *in* Bogdanowicz, Chudzicka, Pilipiuk, and Skibińska, 2004:356 (in catalog of Polish Crabronidae); Stolle et al., 2004:372 (Germany: last collected in 1956); van Achterberg and Peeters, 2004:32 (in checklist of Sphecidae of Netherlands); Wiśniowski, 2004:39 and 58 (in checklist of Polish Sphecidae); Burger, 2005:33 (Germany: Thüringen); Edwards and Broad, 2005:62 (Great Britain: distribution, status, habitat, flight period, prey, nesting habits, flower visiting, parasites, and distribution map); Riemann and Hohmann, 2005:560 (Germany: Niedersachsen: city of Bremen and adjacent area); Theunert, 2005a:17 (Germany: in checklist of Sphecidae of Niedersachsen and Bremen); Liebig, 2006:39 (Germany: Sachsen: Muskauer Heide); Jacobs, 2007:52, 53 (in key to Crabronidae of Germany); Jacobs and Kroupa, 2007:326 (in partial key to European *Mimesa* including *longicornis*); Saure, 2007:82 (Germany: in checklist of Aculeata of Brandenburg Land); Theunert, 2008:52 (Germany: map of distribution in Niedersachsen and Bremen); Ødegaard, Sverdrup-Thygeson, Hansen, Hanssen, and Öberg, 2009:28 (known from Norway), 43 (Norway: locality records); Schmid-Egger, 2010a:16 (in red list of Aculeata of Germany: very rare); Theunert, 2011a:20 (Germany: in checklist of aculeates of Niedersachsen including city of Bremen); Else, Bolton, and Broad, 2016:44 (in checklist of Aculeata of Great Britain and Ireland: England); Stolle and Saure, 2016:923 (Germany: in list of Sphecidae s.l. of Sachsen-Anhalt); Mokrousov, 2017e:251 (in catalog of Pempredoninae of Russia).

30. *unicolor* (Vander Linden)

Psen unicolor Vander Linden, 1829:107, sex not indicated. Syntypes: Belgium: Bruxelles area, and Italy (lost, Leclercq, 1974). – nec Dahlbom, 1843:1 (= *Mimumesa dahlbomi*); Lapeletier de Saint Fargeau, 1845:44 (in revision of world Hymenoptera); Brischke, 1862:97 (Germany: Preussen Province, now Poland: Pomorze Region); Frivaldszky, 1876:352 (Hungary: Temes Komitat: Grebenács, now in Romania: Timiș District); Radoszkowski, 1892:587 (male genitalia); nec E. Saunders, 1896:102 (= *Mimumesa littoralis*); Acloque, 1897:82 (in Sphecidae Fauna of France and Algeria); Morley, 1909:305 (Great Britain: Isle of Wight); Hallett, 1913:99 and 1916:221 (Great Britain: Glamorgan: Porthcawl); Stelfox, 1924:16 (Ireland: Dublin County: North Bull, and Down County: Newcastle); R. Perkins, 1925:149 (Great Britain: Somersetshire: Taunton); Stelfox, 1927:290 (Ireland: list of localities); Spooner, 1931:14 (Great Britain: Cambridgeshire), 1934:278 (Great Britain: Devon: Braunton Burrows); van der Vecht, 1934:10 (Netherlands: Kotten); de Beaumont, 1937:47 (in revision of Palearctic *Psenini*); Gussakovskij, 1937:661 (in revision of Palearctic *Psen*, in subgenus *Mimesa*); Merisuo, 1938:249 (in key to *Pseninae* of Finland); Redikortsev, 1938:144 (Russia: Mordovian State Nature Reserve); Giordani Soika, 1939b:73 (Italy: Lido di Venezia); Stelfox, 1939b:205 (Ireland: Dublin County); Leclercq, 1941b:8 (Belgium: Liège area); Paul, 1941:49 (Germany:

Pommern: Stettin area, now Poland: Województwo Zachodniopomorskie: Szczecin area, and Germany: Mecklenburg-Vorpommern: Geesow); Giner Marí, 1943:50 (in Sphecid Fauna of Spain); Guiglia, 1944b:31 (Italy); Balthasar, 1948:144 (Slovakia: Kovačov, Parkan); Zavadil in Zavadil and Šnoflák, 1948:142, 143 (in key to Sphecidae of Czechoslovakia); van Lith, 1949:141 (Dahlbom's specimens examined), 142 and 144 (in key to European *Mimumesa*), 145 (faunal records from Netherlands); de Beaumont, 1951h:33 (Switzerland: Neuchâtel area); Nouvel and Ribaut, 1953:179 (France: Haute-Garonne: Saint-Béat); de Beaumont, 1954e:92 (Italy); Grandi, 1954:241 (Italy); Aerts, 1955:66 (Germany: Rheinland); Steiner, 1955:143 (France: Dordogne); Bytinski-Salz, 1956:226 (Turkey: Aydın); Bajári, 1957a:72, 73 (in key to Hungarian Sphecidae); Benno, 1958b:17 (in review of Dutch Sphecidae); Tsunek, 1959g:49 (in key to *Psen* of Japan and Korea); de Beaumont, 1960a:21 (Greece: island of Rhodes); Noskiewicz and Puławski, 1960:50, 52 (in key to Polish Sphecidae); de Beaumont, 1961e:5 (Iraq), 1962b:27 (Spain); Valkeila, 1962b:67 (southwestern Finland); de Beaumont, 1963c:417 (Afghanistan); Myartseva, 1963b:59 (Turkmenistan: lower Murgab River); de Beaumont, 1964c:91 (in Sphecid Fauna of Switzerland); Plavil'shchikov, 1964:122 (Russia: Mordovian State Nature Reserve); Myartseva, 1965:81 (Turkmenistan); Benno, 1967:38 (in checklist of Sphecidae of Netherlands); de Beaumont, 1967a:339 (Turkey); Gauss, 1967:555 (Germany: Baden-Württemberg); Miczulski, 1967:189 (Poland: Czechów near Lublin); Niedl and Deneš, 1967:80 (Czech Republic: Třeboň area); Scobiola-Palade, 1967b:44 (Romania); Benedek, 1968:74 (Hungary, visiting flowers of *Angelica silvestris* L.); Scobiola-Palade, 1968c:385 (Romania: București, Budești, Copăceni, Darăști, Floreasca, Giurgiu, Tigănești); Benedek, 1969a:84 (Hungary; marshy meadow); nec Dathe, 1969:440 (= *Mimumesa atratina*); Lefebvre, 1969c:234 (Netherlands: St. Pietersberg = Montagne Saint Pierre); Romanova, 1969:134 (Russia: North Caucasus); Zangheri, 1969:1704 (Italy); Benedek, 1970:99 (Hungary: Tapolca); de Beaumont, 1970a:402 (Afghanistan); Gauss and Perraudin, 1970:360 (Germany: Baden-Württemberg: Bodensee area); Haeseler, 1970:74 (Germany: Schleswig-Holstein: Kiesgrube near Russee); Oehlke, 1970:729 (Democratic Germany); Tumšs, 1970:73 (Latvia); Schmidt, 1971b:39 (Germany: recorded from Mombach by Kirschbaum, 1853, but no longer found in the area); Stritt, 1971a:104 (Germany: Baden-Württemberg: Karlsruhe); Vegter, 1971:229 (Netherlands: Drenthe Province); Balthasar, 1972:245 (in Sphecid Fauna of Czechoslovakia); Haeseler, 1972:156 (Germany: Schleswig-Holstein; anthropogenic habitats); Kazenas, 1972b:118 (Kazakhstan); Kofler, 1972:108 (Austria: eastern Tirol); Myartseva, 1972a:82 (Turkmenistan); Niedl and Deneš, 1972:152 (Czech Republic: Třeboň area); Scobiola-Palade, 1972a:149 (Romania: delta of Danube: Caraorman); Wolf, 1973:41 (Germany: Siegerländer Hüttensand); Erlandsson, 1974:76 (Spain); Kazenas, 1974b:109 (feeding on flowers of *Euphorbia* spp., Euphorbiaceae, in Kazakhstan), 110 (feeding on flowers of *Silaum besseri* L., Apiaceae, in Kazakhstan); Leclercq, 1974b:194 (Belgium and France: locality records); Lefebvre and Petit, 1974:163 (Belgium: Plombières); Kolesnikov, 1977:319 (Russia: Bryansk Oblast'); Haeseler, 1978b:63 (Germany: Niedersachsen: a bog near Oldenburg); Kazenas, 1978b:149, 150 (in key to Sphecidae of Kazakhstan and Central Asia); Marion, 1978:89 (France: Nièvre Department); Pulawski, 1978:233, 236 (in key to Sphecidae of European part of former USSR); Schwammler, 1978:418 (Germany: Württemberg); Benedek, 1979:232 (Hungary: Bakony Hills); Richards, 1979:400 (British Channel Islands); Schwammler, 1979:116 (Germany: Nordrhein-Westfalen: Gildehauser Venn Nature Reserve); Felton, 1981:83 (Great Britain: Kent); Haeseler, 1981:52 (Germany: Friesian Islands: island of Amrum); Józán, 1981:305 (Hungary: Hortobágy National Park); Donath, 1982:214 (Germany: Cottbus Bezirk); Scobiola-Palade, 1985:97 (Romania: delta of Danube); Pádr in Šedivý, 1989a:168 (in checklist of Czechoslovakian Sphecidae); Pankevich, Belyavskaya, Molchanova, Shlyakhtenok, and Blinov, 1989:96 (Belarus: Berezinskiy Nature Reserve); Scobiola-Palade, 1989:88 (Romania: delta of Danube); Kuznetzova, 1990:21 (Russia: Voronezh Oblast': Galich'ya Gora Nature Reserve); Pádr, 1990:77 (Czech Republic: Praha area); Delarze, 1992:68 (Switzerland: Valais: Les Follatères); Yeo and Corbet, 1995:35 (in field guide to British solitary wasps); Harvey and Plant, 1996:74 (Great Britain: summary of records from Essex); Archer and Edwards, 2002:102 (Great Britain: West Sussex: Ambersham and Iping commons); Mokrousov and Selivanova, 2005:754 (Russia: Voronezh Oblast'); Robinson, 2005:37 (incorrectly recorded from Great Britain: Cumbria County). – As *Mimesa unicolor*: Shuckard, 1837a:230 (new combination, in revision of British Aculeata); nec

Dahlbom, 1842a:8 and 1843:1 (= *Mimumesa dahlbomi*); Kiesenwetter, 1849:87 (Germany: Kingdom of Saxony); F. Smith, 1849a:2373 (Great Britain: Devonshire); Wissmann, 1849:9 (Germany: Kingdom of Hannover: Münden); Tischbein, 1850:6 (Germany: Rheinland-Pfalz: Herrstein in Fürstenthum Birkenfeld); F. Smith, 1851c:41 (Great Britain: no specific locality); Wesmael, 1852:271 (in revision of Sphecidae of Belgium); F. Smith, 1853:65 (in checklist of British Hymenoptera), 1856:429 (in catalog of Hymenoptera in British Museum); Kawall, 1857:23 (Kurland, now Latvia); Ruthe and Stein, 1857:312 (Germany: Berlin area); Schenck, 1857:207 (Germany: in revision of fossorial wasps of Nassau Region); A. Costa, 1858b:23 (in revision of Sphecidae of Kingdom of Naples); F. Smith, 1858c:185 (in review of British Aculeata, redescription); Taschenberg, 1958:78 (in key to Sphecidae of Germany); Assmus, 1859:605 (Russia: Moscow Oblast'); Funk, 1859:60 (Germany: Bayern: Bamberg); Schenck, 1860:149 (Germany: Nassau Region); Taschenberg, 1866:205 (in revision of Hymenoptera of Germany); Kirchner, 1867:216 (in catalog of European Hymenoptera); A. Costa, 1867c:103 (in revision of Italian Sphecidae); Schenck, 1867a:357 (Germany: Nassau Region); Dietrich, 1868:364 (Switzerland: Zurich Canton); von Aichinger, 1870:321 (Austria: Tirol); Thomson, 1870:233 (in revision of Swedish wasps); A. Costa, 1871b:32 (in revision of Italian Sphecidae); F. Smith, 1871b:19 (in catalog of British Aculeata); Dours, 1874:150 (in catalog of Hymenoptera of France); Thomson, 1874:183 (in revision of Hymenoptera of Scandinavia); Wierzejski, 1874:258 (Ukraine: Podole Region: Skala on Zbrucz River); Taschenberg, 1875:387 (Germany: Halle); Beuthin, 1876:232 (Germany: Hamburg area); Daly, 1878:47 (Great Britain: Dorset: Glanville's Wootton); Girard, 1879:941 (cicadellid prey); Becker, 1880:152 (Russia: Sarepta, now Krasnoarmeysk S Volgograd); Kohl, 1880:140 (Austria: Tirol, and Italy: Trentino–Alto Adige); E. Saunders, 1880:263 (in revision of British Aculeata); Magretti, 1881:110 (Italy: Lombardia), 270 (in list of species treated in this paper); Marquet, 1881:177 (southern France); A. Costa, 1882b:23 (Italy: Sardegna); Kohl, 1883e:660 (Switzerland); Sickmann, 1885:179 (Germany: Niedersachsen: Wellingholthausen); Radoszkowski, 1886a:24 (Turkmenistan), 1887a:41 (China: Qinghei Province: Tsaidam); Ed. André, 1888:177 (in revision of Sphecidae of Europe and Algeria), 12* (bibliographic references); Brischke, 1888b:94 (Germany: Preussen Province, now Poland: Pomorze Region); Kohl, 1888b:726 (Austria: Tirol, now Italy: Alto Adige); Tournier, 1889:68 (in key to *Mimesa*), 95 (Switzerland: Peney near Genève); Kohl, 1893a:40 (Austria: Niederösterreich: Piesting); F. Morawitz, 1893a:109 (Russia: Karelian Isthmus); Sickmann, 1893:97 (Germany: Niedersachsen: Iburg); Baldini, 1894:50 (Italy: Modena area); Krieger, 1894:18 (Germany: Kingdom of Saxony); De Stefani Perez, 1895:227 (in catalog of Sicilian Hymenoptera); Freke, 1896:40 (Ireland); Meunier, 1896:274 (Belgium: Bruxelles area); E. Saunders, 1896:102 (in revision of British Aculeata); Dalla Torre, 1897:355 (in catalog of world Hymenoptera); Mocsáry, 1897:78 (Kingdom of Hungary, some localities are in today's Croatia and Romania); O. Schneider, 1898:103 (Germany: island of Borkum); Morice, 1900c:210 (Great Britain: Surrey: Cobham); Nevinson, 1900:62 (Great Britain: Wales: Towyn), 1901:72 (Great Britain: Wales: Criccieth); R. Bradley, 1902:267 (Great Britain: northern Wales); Chyzer, 1902:34 (Hungary); de Cobelli, 1903:105 (Italy: Province of Trentino); Antiga and Boffill, 1904:6 (Spain: Cataluña Province); Aurivillius, 1904:257 (in revision of Swedish Sphecidae); W. Schulz, 1904b:91 (Greece: island of Corfu); Kubes, 1905:83 (Czech Republic: Obora); Mortimer, 1905:261 (Great Britain: Wales: Aberdovey); Schmiedeknecht, 1907:249 (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); Schirmer, 1912:168 (Germany: Berlin area); Birula, 1913:545 (Ukraine: Zhytomyr Oblast': Radomyshl'); Alfken, 1914:284 (northwest Germany); Birula, 1914:389 (Belarus: Ambrosovich near Vitebsk); Dubois, 1919:96 (Belgium: Bruxelles: Uccle); O. Meyer, 1919:156 (Germany: Posen Province, now Poland: Poznań Region); Łoziński, 1920:122 (Poland: Maków Podhalański); A. Wagner, 1920:36 (Germany: Lower Elbe region); Dubois, 1921c:215, 216 (in key to Belgian Sphecidae); Alfken, 1924:425 (Germany: island of Memmert); Berland, 1925d:134 (in Sphecid Fauna of France); Bischoff, 1925:302 (Poland: Białowieża); Blüthgen, 1925:166 (Germany: Saale River valley: Nautschketal); Coulon, 1925:113 (France: Rouen); Schütze, 1925:114 (Germany: Lausitz Region: Baruth, Bautzen, Oßling, Rachlau); Hémon, 1926:199 (France: Finistère: Fouesnant); F. Werner, 1927:67 (Austria: Niederösterreich: River Kamp valley); Wnukowski, 1927:32

(Russia: Western Siberia: village of Kornilovo at 53°57'N 81°10'E); Bouwman, 1928b:54 (in revision of Sphecidae of Netherlands); A. Müller, 1930:181 (Bessarabia: Tarutino, may be in Moldova or Ukraine); Schmiedeknecht, 1930:710 (in keys to Hymenoptera of North and Central Europe); Bischoff, 1931:8 (Spain); Pulkkinen, 1931:82 (in revision of Sphecidae of Finland); Bondroit, 1932:34 (Belgium: common in Bruxelles area); Crèvecoeur and Maréchal, 1932:71 (in catalog of Belgian Hymenoptera: Esneux); Merisuo, 1933c:75 (in key to *Mimumesa* of Finland); Balles, 1934:22 (Germany: Baden-Württemberg: five localities); Bondroit, 1934:64, 65 (in key to Belgian *Mimumesa*); Jansson, 1934:291 (Sweden); Forsius in Forsius and Hellén, 1935:11 (in checklist of Hymenoptera of Finland); Grandi, 1935a:111 (Italy); Crèvecoeur and Maréchal, 1936:250 (in catalog of Belgian Hymenoptera); Drogoszewski, 1936:130 (Poland: Łowicz); Dulac, 1937:15 (France: Saône-et-Loire: Montcenis, Saint-Laurent d'Andenay); Goebel, 1937:48 (Poland: Poznań District: Poznań-Dębina); Richards, 1937b:105 (in checklist of British aculeates); Zavadil, Šusterka, and Bat'a, 1937:219 (in catalog of Sphecidae of Czechoslovakia); A. Wagner, 1938a:124 (northwestern Germany); Móczár, 1939:5 (Hungary: Jászberény); Yarrow, 1939:15 (Great Britain: Dorset: Lytchett Minster); Dovnar-Zapolskiy, 1940:304 (Russia: Kursk Oblast); Balthasar, 1941b:114 (Czech Republic: eastern Moravia); Schneid, 1941:1051 (Germany: Bayern: Bamberg area); Boyd, 1943:163 (Great Britain: eastern Dorset); Spooner, 1943:73 (Great Britain), 1948:133 (in revision of British Psenini); Ceballos, 1949:101 (Spain); Aerts, 1950a:51 (Germany: Nordrhein-Westfalen: Rheidter Wertchens near Köln), 1950b:23 (Germany: Rheinland-Pfalz: Lorelei, as *unicolos*); Cavro, 1950:32 (France: Département du Nord); Szulczewski, 1950:109 (Poland: Wielkopolski National Park 15 km S Poznań); Scobiola, 1951:271 (first record from Romania: several localities); Bischoff and Stadler, 1954:126 (Germany: Bayern: Romberg); Teschner, 1955:57 (Germany: Nordrhein-Westfalen: Hohe Ward near Münster); Vogrin, 1955:38 (Yugoslavia); Ceballos, 1956:356 (in catalog of Hymenoptera of Spain); Bradley, 1957:49 (Lepeletier's specimens in Turin); Zirngiebl, 1957:185 (Germany: Rheinland-Pfalz: Pfalz region); Compte Sart, 1959:130 (Spain: island of Mallorca); Wolf, 1959b:25 (Germany: Nassau); Babiý, 1964:115 (Austria: Land Salzburg); Ceballos, 1964:86 (in supplement to catalog of Spanish Sphecidae); Hüsing and Jäger, 1964:192 (Germany: Sachsen-Anhalt: Nietleben near Halle), 200 (visiting flowers of *Achillea millefolium* L. and of umbellifers, nesting in sand); B. Klug, 1965:132 (Germany: Baden-Württemberg: Freiburg im Breisgau area); Mingo Pérez, 1965:166 (in revision of Spanish Psenini); Bonelli, 1966c:219 (Italy: Trentino-Alto Adige: Cavalese, Predazzo); Lefeber, 1966:209 (Netherlands: St. Pietersberg); J. Heinrich, 1967:77 (Germany: Bayern: Unterfranken District); Mingo Pérez, 1968:83 (locality records from Spain), 86 (in checklist of Iberian Psenini); Wolf, 1968:12 (Germany: Nordrhein-Westfalen: Siegen, inhabitant of forest edge); de Beaumont, Bytinski-Salz and Pulawski, 1973:20 (Israel); Casolari and Casolari Moreno, 1980:122 (specimens in M. Spinola collection); Kowalczyk, 1990:290 (Poland: Góry Świętokrzyskie); Cartier, 2000a:74 (France: Hauts-de-Seine: Rueil-Malmaison); Pagliano, 2014:96 (specimens in Spinola collection, Torino, are *Mimumesa unicolor*). – **As *Mimumesa unicolor***: Hamann, 1960:196 (new combination, Austria: Oberösterreich: Mönchgraben near Linz); Lomholdt, 1975c:156 (in Sphecid Fauna of Fennoscandia and Denmark); R. Bohart and Menke, 1976:164 (in checklist of world Sphecidae); Petit, 1978:87 (Belgium: Paal); Pagliano, 1980:130 (Italy: Piemonte); Mityaev, Matesova, Kulenova, Kazenas, and Zhdanko, 1980:116 (Russia: Siberia: Altayskiy Kray: basin of Aley River); Westrich, 1980:630 (Germany: Baden-Württemberg: Tübingen area); Dollfuss and Ressler, 1981:315, 321 (Austria: Niederösterreich: Scheibbs District); Gayubo, 1981a:143 (northern Spain: Sierra de Béjar); Woýdak, 1981:39 (Germany: Westfalen: Hamm); Gayubo, 1982f:247 (Spain: Cádiz Province: Cañas de Meca); Dollfuss, 1983b:4 (in catalog of Sphecidae of Austria); Janzon, 1983:171 (Sweden: Öland); Lefeber, 1983a:84 (Netherlands: Waddendistrict: island of Terschelling); Riemann, 1983:82 (Germany: Bremen-Daverden area); Chevin and Silvestre de Sacy, 1984:6 (France: Yvelines Department); Gayubo, 1984a:168 (Spain: previously recorded from Salamanca Province); Mingo and Gayubo, 1984:101 (Spain); Haack, Tschardtke, and Vidal, 1984:130 (Germany: Hamburg area); Schmidt, 1984:242 (Germany: Baden-Württemberg); Schmidt and Westrich, 1984:240 (Germany: Rheinland-Pfalz: Bad Münster); Haeseler, 1985c:571 (Germany: Friesian Islands); Józán, 1985a:181 (Hungary), 1985b:55 (Hungary south of Lake Balaton), 77 (floral records), 83 (ecological and zoogeographic characteristics); Lefeber, 1985:87 (Netherlands: southern Limburg);

Gayubo and Heras, 1986:34 (Spain: Segovia Province; floral records); Gayubo and Sanza, 1986:34 (Spain: Soria); Gayubo and Tormos, 1986a:10 (Spain: Castellón de la Plana); Islamov, 1985:530 (Uzbekistan: Tashkent Oblast'); Brechtel, 1986:63 (Germany: Südpfalz); Józán, 1986:368 (Hungary: Kiskunság National Park); Nemkov, 1986:94 (Russia: Irkutsk Oblast'); Vikberg, 1986b:75 (Finland); Riemann, 1987b:40 (Germany: Niedersachsen: Nature Reserve Voßberge); Schmidt and Westrich, 1987:366 (Germany: Mainz area); Dollfuss, 1988:9, 21 (Austria: Bisamberg near Vienna; Niederösterreich: Oberweiden); Haeseler, 1988:211 (Germany: Friesian Islands); Riemann, 1988:223 (Germany: Bremen area); Wolf, 1988b:142 (Germany: Rheinland-Westfalen); Jacobs, 1989:6 (Germany: Mecklenburg-Vorpommern); Józán, 1989:101 (Hungary: Tihany Nature Reserve); Barbier, Rasmont, and Wahis, 1990:32 (Belgium: Hainaut); Budrys, 1990:946 (in revision of *Mimumesa* of USSR); Gayubo, Asís, and Tormos, 1990a:13 (Spain); Jacobs and Oehlke, 1990:140 (new records from Democratic Germany); Pagliano, 1990:111 (in catalog of Italian Sphecidae); Schwammbeger and Priesner, 1990:534 (Austria: Kärnten); Day, 1991:xvi (summary of European Endangered Hymenoptera Lists); Dollfuss, 1991:40 (in key to Sphecidae of North and Central Europe); Gayubo, Borsato, and Osella, 1991:397 (Italy: Piemonte, Calabria, Emilia); Jakubzik, 1991:74 (Germany: Köln); Kowalczyk, 1991a:96, 99, 101 (Poland: Łódź); Kuhlmann et al., 1991:91 (Germany: Senne Region); von der Heide, 1991:63 (Germany: peat bog near Oldenburg); Budrys, 1992:26 (in list of Sphecidae of Lithuania); Józán, 1992a:228 (Hungary: Béda-Karapanca Protected Area), 1992b:172 (Hungary: Boronka-melléki Protected Area), 1992c:289 (Hungary: Zselic Hills); K. Weber, 1992:87 (Germany: Bayern: Bamberg District); Gorobchishin, 1993:46 (Ukraine: Kanev Nature Reserve); Kuhlmann, 1993:75 (Germany: known from Westfalen); Luig, 1993:41 (Estonia); Mochi and Luchetti, 1993:106 (Italy: Lazio: Lago di Vico); Sorg and Wolf, 1993:60 (Germany: Rheinland-Westfalen: Nature Reserve Die Spey); Torregrosa, Gayubo, Tormos, and Asís, 1993:11 (Spain: Alicante Province); van der Smissen, 1993:129 (northwest Germany); Wiśniowski, 1993a:96 (Poland: in checklist of Sphecidae of Białowieża Primeval Forest, as *Mumesa*); Else and Felton, 1994:108 (comparison with *Mimumesa littoralis*), 109 (first record from Great Britain); Felton and Schneider, 1994:290 (Luxemburg); Gayubo and Borsato, 1994:203 (Italy: Lombardia); Junck, Schoos, and Schoos, 1994:96 (Luxemburg: Bettendorf); Kowalczyk, 1994:72 (Poland: Łagiewniki forest in Łódź); U. Peters, Sohmen, Stuke, and Prüter, 1994:66 (Germany: Schleswig-Holstein: gardens in Hof Möhr); Theunert, 1994c:44 (Germany: summary of records from Niedersachsen and Bremen); Tormos, Asís, and Gayubo, 1994:187, 198 (Spain: Albacete Province); Budrys in Nemkov, Kazenas, Budrys, et Antropov, 1995:391 (in key to Sphecidae of Russian Far East); Gorobchishin, 1995:17 (Ukraine: Kanev Nature Reserve); Józán, 1995:104 (Hungary: projected Duna-Dráva National Park); Negrisoló, 1995a:23 (Italy: Veneto); Negrisoló in Minelli, Ruffo, and La Posta, 1995b:10 (in catalog of Italian fauna); Pagliano and Pesarini, 1995:84 (Italy: Ferrara Province); Scharrer, 1995:23 (Austria: Wien area; Germany: Bayern: Aschaffenburg, Eckertsmühle, Lohr, Kahl); Schmid-Egger, 1995:62 (Germany: northwest Baden-Württemberg); Schmid-Egger, Risch, and Niehuis, 1995:195 (summary of records from Germany: Rheinland-Pfalz); K. Schmidt, Schmid-Egger, and Doczkal, 1995:8 (relationship to *Mimumesa littoralis* is unclear); von der Dunk and Amon, 1995:52 (Germany: Nürnberg: Birkenlach forest); Wolf, 1995:16 (Germany: Rheinland-Pfalz: near Lorelei Rock on Rhein River); Arens, 1996:440 (Germany: Bayern: Bayreuth area); Jakubzik, 1996:253 (Germany: Köln); Jakubzik and Cölln, 1996b:400 (Germany: Rheinland-Pfalz); Saure, 1996:502 (Germany: Berlin-Pankow: sewage irrigation field); Schmid-Egger, Schmidt, and Doczkal, 1996:377 (Germany: Baden-Württemberg: endangered); Skibińska, 1995:423, 424 (Poland: pine forest in Białowieża Primeval Forest); Shlyakhtenok, 1996:304 (Belarus: Berezinsky Nature Reserve); Voblenko, Gorobchishin, and Nesterov, 1996:14 (Ukraine: Polesye Region); Witt, 1996:106 (Germany: Brandenburg), 109 (locality records); Woydak, 1996:15 (Germany: Westfalen: summary of distribution and nesting habits); Celary, 1997:57 (in checklist of Animals of Poland); Nazarova and Shomirsaidov, 1997:23 (Tajikistan: fruit tree orchards in Vakhsh River valley); Schmidt and Schmid-Egger, 1997:19 (in checklist of German Sphecidae); Shlyakhtenok, Blinov, and Belyavskaya, 1997:152 (Belarus: Pripyatskiy National Park); Dollfuss, Gusenleitner, and Bregant, 1998:511 (Austria: summary of collecting records from Burgenland); Drewes, 1998:49 (Germany: Niedersachsen: Goldbeck 26 km WSW Hamburg); Haeseler and Ritzau, 1998:51 (Germany: Bremen: Steller Heide); Jakubzik, Schlüter, and

Cölln, 1998:1182, 1184 (Germany: Rheinland-Pfalz); Józán, 1998:311 (Hungary: Duna-Dráva National Park); Lefebvre, 1998:182 (Netherlands: Limburg: Sint-Pietersberg near Maastricht at 50°50'N 5°41'E); N. Schneider and Wahis, 1998:21 (Luxemburg: sandstone quarries); Shkuratov, 1998:97 (Russia: Rostov Oblast'); van der Smitten, 1998:62 (Germany: Mecklenburg-Vorpommern, Niedersachsen, Schleswig-Holstein); K. Weber, 1998:143 (Germany: Bayern: Bamberg area); Cölln and Jakubzik, 1999:29 (Germany: Rheinland-Pfalz: Keuper-Scharren SW Hungerburg); Gayubo, García, Torres, and González, 1999:89 (Spain: Soria Province); Gusenleitner, 1999:598 (Austria: Vorarlberg: Vandans NW Schruns); Herrmann, 1999:7 (Germany: Niedersachsen: Oldenburg area; habitats size); Kuhlmann, Wolf, and Woydak, 1999:569 (Germany: endangered in Nordrhein-Westfalen); Ljubomirov, 1999b:45 (Bulgaria: Mt. Vitoshka near Sofia); Mandery, 1999:105 (Germany: Bayern: Coburg area); Neumayer, Schwarz, and Bregant, 1999:224 (Austria: in checklist of Sphecidae of Land Kärnten); Pauly, 1999:108 (in catalog of Belgian aculeates); Petit, 1999:113 (Netherlands: Nieuw-Namen, Paal); M. Schwarz, 1999:85 (Austria: Oberösterreich: city of Linz area); Sörensen, Mauss, and Schindler, 1999:504 (Germany: Schleswig-Holstein); Blösch, 2000:150 (in Sphecidae Fauna of Germany); Esenbekova and Kazenas, 2000:15 (southeast Kazakhstan: 2 km southwest, 6 km west, and 3-5 km south of Alma Ata, near Zhanantast); Jacobs, 2000:8 (Germany: Land Mecklenburg-Vorpommern: not endangered); Józán, 2000:105 (Hungary: Bakony Mountains); Kazenas, 2000e:53 (in Sphecidae Fauna of Kazakhstan); Kuhlmann, 2000:64 (Germany: Hessen: Diemel River valley); Ljubomirov, 2000:8 (Bulgaria, specimens in N. Nedelkov collection); M. Mader and Chalwatzis, 2000:60 (Germany: Hessen: Oderwald Mountains); Mokrousov, 2000b:30 (Russia: Nizhniy Novgorod Oblast'); Schmid-Egger, 2000b:275 (Germany: Baden-Württemberg: shores of Rhine River); Zettel, 2000:25 (Austria: Drösing, Wien); Budrys, 2001b:178 (locality records), 187 (review of synonymy), 188 (in key to *Mimumesa littoralis* and *unicolor*); Dollfuss and Bitsch *in* Bitsch et al., 2001:35 (in Sphecidae Fauna of Western Europe); Haeseler, 2001:266 (Germany: Niedersachsen: Brookdeich near Oldenburg); Józán, 2001:278 (Hungary: Somogy County); Kazenas, 2001:20 (in checklist of Sphecidae of Kazakhstan and Central Asia), 117 (review of known biology); Kazenas and Esenbekova, 2001:133 (Kazakhstan: Almatinskiy Nature Reserve); Ohl et al., 2001:140 (distribution in Germany by provinces); Salzmänn-Wandeler and Rezbanyai-Reser, 2001:157 (Switzerland: Tessin Canton: Meride area); Skibińska, 2001:219 (Poland: Białowieża Primeval Forest); Szczepko and Kowalczyk, 2001:187 (Poland: Kampinos National Park near Warszawa); van der Smitten, 2001:61 (Germany: Schleswig-Holstein: not endangered); Wolf, 2001a:171 (Germany: Bayern: Lech valley from Augsburg to Donau); Zettel, Gross, and Mazzucco, 2001:68 (Austria: Wien); Bieri, 2002:76 (Liechtenstein); Józán, 2002:53 (Hungary: Mecsek Mountains); Kazenas, 2002a:43 (geographic distribution, collecting localities in Kazakhstan); Kowalczyk, Szczepko, and Świątek, 2002:152 (Poland: Kampinos National Park near Warszawa); Shlyakhtenok and Skibinska, 2002:32 (Belarus: no specific locality); Wiśniowski, 2002:68 (Poland: Ojców National Park); Ziska, 2002:8 (Germany: Berlin-Köpenick: Krumme Lake); Flügel, 2003:8 (Germany: Hessen: Knüllwald); Haeseler, 2003:340 (Germany: Niedersachsen: island of Harriersand near Bremen); Mandery, Kraus, Voith, Wickl, Scheuchl, Schubert, and Warncke, 2003:67 (Germany: in catalog of wasps and bees of Bayern); von der Heide and Metscher, 2003:102 (Germany: Niedersachsen: Emsland area); Wiśniowski *in* Dylewska and Wiśniowski, 2003:134 (Poland: Ojców National Park); Deván, 2004:147 (western Slovakia); Dollfuss, 2004a:110 (Estonia, Greece, Iraq, Italy, Kazakhstan, Kyrgyzstan, Turkey, Turkmenistan, Ukraine, Uzbekistan); Esser, Jakubzik, Sonnenburg, and Woydak, 2004:263 (Germany: in checklist of Sphecidae of Nordrhein-Westfalen); Kazenas, 2004b:100 (Kazakhstan: western Tien Shan); Salzmänn-Wandeler and Rezbanyai-Reser, 2004:27 (central Switzerland); Shkuratov, 2004a:79 (Russia: Rostov Oblast'); Skibińska *in* Bogdanowicz, Chudzicka, Pilipiuk, and Skibińska, 2004:356 (in catalog of Polish Crabronidae); Stolle et al., 2004:372 (Germany: Sachsen-Anhalt: in red list of Sphecidae); Szczepko and Kowalczyk, 2004:125 (Poland: Kampinos National Park near Warszawa); van Achterberg and Peeters, 2004:32 (in checklist of Sphecidae of Netherlands); Wiśniowski, 2004:39 and 58 (in checklist of Polish Sphecidae); Burger, 2005:33 (Germany: Thüringen); Edwards and Broad, 2005:64 (Great Britain: distribution, status, habitat, flight period, prey, nesting habits, flower visiting, parasites, and distribution map); Gayubo and Özbek, 2005:35 (Turkey: nine localities); Haeseler, 2005:629 (Germany: Niedersachsen: Steller Heide near

Bremen); Kofler, 2005:166 (Austria: Tirol: Lienz District: Nußdorf in Nußdorf-Debant Common); Kraatz, 2005:103 (Germany: Niedersachsen: Bümmerstede near Oldenburg); Nazarova, 2005:93 (alfalfa fields in south-western Tajikistan); Pagliano and Negrisoló, 2005:434 (in Sphecidae Fauna of Italy); Riemann and Hohmann, 2005:560 (Germany: Niedersachsen: city of Bremen and adjacent area); Saure, 2005:16 (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, 2005:43 (Germany: Nordrhein-Westfalen: Moosheide Nature Reserve); Wiśniowski, 2005a:312 (Poland: Ojców National Park; occurring in all non-forest biotopes); Allen, 2006:24 (Great Britain: Kent: River Medwat at Hadlow); Feitz, Gloden, Melchior, and Schneider, 2006:82 (Luxemburg: Baggerweieren area in Haff Réimech Nature Reserve); Liebig, 2006:39 (Germany: Sachsen: Muskauer Heide); Peeters, Krekels, and Megens, 2006:22 (Netherlands: Reichswald forest near Nijmegen); N. Schneider, 2006:142 (Luxemburg: anthropogenic habitats); Shlyakhtenok, 2006:110 (Belarus': Polesye Radiological Nature Reserve); Vepřek, 2006:510 (Czech Republic: Kokořinsko area); Beavis, 2007:95 (Great Britain: Tunbridge Wells and Central High Weald); Bitsch, Dollfuss, Bouček, Schmidt, Schmid-Egger, Gayubo, Antropov, and Barbier, 2007:453 (France: first records from Département of Ain: Flevin and Izieu); Flügel, 2007:40 (Germany: Hessen: Halberg near Neumorschen); Guldmond, Pijfers, and den Belder, 2007:203 (Netherlands: Gelderland: dairy farm in de Graafschap); Herrmann, 2007a:52 (Germany: Niedersachsen: Ostfriesland); Jacobs, 2007:52, 54 (in key to Crabronidae of Germany); Jacobs and Kroupa, 2007:326 (in partial key to European *Mimesa* including *longicornis*); Jansen and Kaluza, 2007:24 (Germany: northwestern Sachsen); Józán, 2007:179 (Hungary: Zselic hills); Kazenas, 2007a:90 (Kazakhstan: Akkala Oblast': Kurgandzhin Nature Reserve and vicinity); Saure, 2007:82 (Germany: in checklist of Aculeata of Brandenburg Land); Shlyakhtenok, 2007a:299 (Belarus': Berezinsky Nature Reserve), 2007b:364 (Ukraine: Chernobyl area); Smit and Megens, 2007:17 (Netherlands: Noort Brabant: vicinity of Leende); Vago, 2007:174 (France: départements d'Aisne, Nord, and Pas-de-Calais); Venne, Bleidorn, and Lauterbach, 2007:302 (Germany: Nordrhein-Westfalen: Bielefeld); Vepřek and Straka, 2007:199 (in catalog of Sphecidae of Czech Republic and Slovakia); Winkler, 2007:30 (Germany: Niedersachsen: eastern Friesland); Gayubo, González, Tormos, and Asís, 2008:140 (Spain: Salamanca: Parque Natural de Las Batuecas – Sierra de Francia); Haeseler, 2008:308 (Germany: Friesian Islands); Kazenas, 2008b:111 (Kazakhstan: foothills of Zailiyskiy Alatau: sometimes found on loess cliffs); Ljubomirov and Ban-Calefariu, 2008:204 (Romania: Maramureş District: Ieud); Ljubomirov and Yildirim, 2008:168 (in catalog of Crabronidae of Turkey); Nemkov, 2008b:17 (in catalog of Crabronidae of Asiatic Russia); Theunert, 2008:52 (Germany: map of distribution in Niedersachsen and Bremen); U. Frommer, 2009a:28 (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); Hessling, 2009:104 (Germany: Niedersachsen: Hunte River valley south of Oldenburg); Ma and Li, 2009:209 (in key to Chinese *Mimumesa*, first record from China: several localities); Mokrousov, 2009:294 (Russia: Republic Mari El); Nemkov, 2009b:56 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia); Pagliano, 2009:187 (Italy: Marche: no specific locality); Ruchin, Antropov, and Shibayev, 2009:169 (Russia: Republic of Mordovia); Esser, Fuhrmann, and Venne, 2010:37 (Germany: in checklist of aculeates of Nordrhein-Westfalen); Mokrousov, 2010a:63 (Russia: Kirov, Kostroma, and Nizhniy Novgorod Oblast's, Mari El Republic, Tatarstan: no specific localities); Rudoiskatel', 2010:153 (Russia: central and southern Ural Mountains); Schmid-Egger, 2010a:16 (in red list of Aculeata of Germany: relatively common); Schmidt, 2010:136 (Germany: Bayern: collected along Main-Donau canal); Shorenko and Kononov, 2010:25 (Ukraine); Treiber, 2010:135 (France: département du Haut-Rhin); van der Smissen, 2010a:344 (Germany: Schleswig-Holstein and Mecklenburg-Vorpommern: locality records); Wurdack and Gack, 2010:153 (Germany: Baden-Württemberg: Kaiserstuhl); Baghirov, 2011b:153 (Russia: recorded from Altay by Nemkov in Nemkov, Kazenas, Budrys, and Antropov, 1995); Gogala, 2011:9 (Slovenia: Podčetrtek); Józán, 2011:179 (in checklist of Sphecidae s.l. of Hungary); Mokrousov, Berezin, and Egorov, 2011:81 (Russia: Chuvash Republic); Saure, 2011a:6 (Germany: Berlin: former airport Tempelhof), 2011c:198 (Germany: Berlin-Spandau:

Fort Hahneberg); Theunert, 2011a:20 (Germany: in checklist of aculeates of Niedersachsen including city of Bremen); Tischendorf, Frommer, Flügel et al., 2011:145 (Germany: Hessen: not endangered); Ziska and Saure, 2011:109 (Germany: Berlin: Tegeler Fließ valley); Boillat, 2012:228 (Switzerland: in checklist of insects of Canton de Genève); Franzén, Molander, Norén, and Nilsson, 2012:26 (Sweden: Skåne: Kullaberg Peninsula); Gerth, Mayer, Hering, Wolf, Schaffer, and Bleidorn, 2012:9 (Germany: Sachsen: Bienitz in Leipzig); Prisiy, 2012:46 (Russia: Belgorod Oblast'); Saure, 2012b:229 (Germany: Berlin-Spandau: Spandauer Forst); Shlyakhtenok, 2012a:171 (Belarus': collected in private plots), 2012b:92 (Belarus': Beresina National Reserve: overgrowing dry meadow); Strumia, Pagliano, and Gayubo, 2012:56 (Italy: Toscana: Riserva di San Rossore); Akulov and Proshchalykin, 2013:112 (Russia: Siberia: Krasnoyarsk Krai: Krasnoyarsk); Braun-Reichert, 2013:14 (Germany: Bayern: pastures between Regensburg and Nürnberg); Dyuzhaeva, 2013:117 (Russia: Samara Oblast': Zhiguli Nature Reserve); Mokrousov, Ruchin, and Egorov, 2013:203 (Russia: Mordovian Republic: Mordovian State Nature Reserve); Pankov, 2013:231 (Russia: Ivanovo Oblast'); Saure, 2013:20 (Berlin: Treptow-Köpenick: Gosener Wiesen); Shlyakhtenok, 2013:140 (in annotated catalog of aculeate wasps of Belarus'); Vieira, Oliveira, Brewster, and Gayubo, 2013:19 (Portugal: Douro International Natural Park); Wiśniowski and Szczepko, 2013:38 (Poland: Kampinos National Park near Warszawa); Baldock, 2014:358 (Spain: island of Mallorca); Bitsch, 2014:409 (France: Bas-Rhin: Obernai); Dunford, Turbyville, and Leavengood, 2014:10 (listed as medically important in Afghanistan); U. Frommer, 2014:27 (Germany: Hessen: Lorch); Hellqvist, Abenius, and Norén, 2014:94 (in catalog of Ampulicidae, Sphecidae, and Crabronidae of Sweden, by provinces); Kazenas, 2014a:133 (Kazakhstan: Karatau Mountain Range); Mokrousov and Vafin, 2014:59 (Russia: Republic of Tatarstan); Yıldırım, Ljubomirov, and Lelej, 2014:9 (distribution in Turkey by biogeographic provinces); Atbaei, Fallahzadeh, and Ljubomirov, 2015:14 (first record from Iran: Fars Province); Koçak and Kemal, 2015:147 (in checklist of Hymenoptera of Turkey); P. Rosa and Pagliano, 2015:103 (Italy: Lombardia and Piemonte: Parco del Ticino); Saure, 2015:14 (Germany: Berlin-Lichterfelde); Else, Bolton, and Broad, 2016:44 (in checklist of Aculeata of Great Britain and Ireland: England); Mokrousov and Popov, 2016:589 (Russia: Adygea); Sadeghi, Fallahzadeh, Ostovan, Ljubomirov, and Hesami, 2016:431 (Iran: Fars Province); Saure, 2016b:49 (Germany: Sachsen-Anhalt: fruit orchards); Stolle and Saure, 2016:923 (Germany: in list of Sphecidae s.l. of Sachsen-Anhalt); Yıldırım, Ljubomirov, Özbek, and Yüksel, 2016:29 (Turkey: Antalya, Erzurum, Iğdır, and Isparta provinces); 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 canopy); Jahantigh, Rakhshani, Mokhtari, and Ramroodi, 2017:76 (Iran: known from Fars Province); Mokrousov, 2017e:251 (in catalog of Pemphredoninae of Russia).

Mimesa borealis Dahlbom, 1842:8, ♀, ♂. Lectotype: ♀, Sweden: Oost-Gotland: no specific locality (Lund), designated by van Lith, 1949:137. Synonymized with *Mimesa unicolor* by Thomson, 1870:233. – Dahlbom, 1843:2 (in revision of Sphecidae and Pompilidae), 1845:427 (in key to European *Mimesa*); Kiesenwetter, 1849:87 (Germany: Kingdom of Saxony); Wissmann, 1849:9 (Germany: Kingdom of Hannover: Münden); Tischbein, 1850:6 (Germany: Rheinland-Pfalz: Herrstein in Fürstenthum Birkenfeld); Assmus, 1859:605 (Russia: Moscow Oblast'); Casolari and Casolari Moreno, 1980:122 (specimens in M. Spinola collection); Pagliano, 2014:96 (specimens in Spinola collection, Torino, are *Mimumesa unicolor*).

As *Psen fuscipennis* Radoszkowski, 1892:587 (male genitalia). Corrected to *Psen unicolor* by de Beaumont, 1937:48.

Mimesa palliditarsis E. Saunders, 1904c:605, ♂. Syntypes: ♂, Spain: island of Mallorca: Little Albufera (OXUM). Synonymized with *Psen unicolor* by de Beaumont, 1937:48. – Ceballos, 1956:356 (in catalog of Hymenoptera of Spain). – As *Psen palliditarsis*: Gussakovskij, 1937:694 (new combination, original description copied; probable synonym of *Psen unicolor*).

Psen oresterus van Lith, 1976b:87, ♀, ♂ (in subgenus *Mimumesa*). Holotype: ♀, Pakistan: Baluchistan: Quetta (BMNH). Synonymized with *Mimumesa unicolor* by Budrys, 2001b:188. – Budrys, 2001b:179 (locality records).

31. *vanlithi* (Tsuneki)

As *Psen beaumonti*: Tsuneki, 1954c:53 (Japan), corrected to *Psen vanlithi* by Tsuneki, 1959g:61.

Psen vanlithi Tsuneki, 1959g:61, ♀, ♂. Holotype: ♂, Japan: Fukui Prefecture: Sabae (originally K. Tsuneki coll., now Hyogo Mus.). – Tsuneki, 1959g:49, 51 (in key to *Psen* of Japan and Korea); van Lith, 1965:65 (listed, bibliographic reference); Nishino, 1968:25 (Japan, determination tentative); Tano, 1968:33 (Japan); van Lith, 1968:133 (in list of subgenus *Mimumesa*); Itami, 1969:49 (Japan: Niigata Prefecture); Tsuneki, 1971j:21 (Taiwan); Haneda, 1972a:5 (Taiwan); Hashimoto and Nakanishi, 1997:235 (holotype transferred to Hyogo Mus.). – **As *Mimumesa vanlithi***: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Budrys, 1988:110 (China: Shanghai); Tano, 1994a:4 (holotype in K. Tsuneki collection); Budrys in Nemkov, Kazenas, Budrys, et Antropov, 1995:390 (in key to Sphecidae of Russian Far East); Ma and Li, 2009:209 (in key to Chinese *Mimumesa*); Terayama and Gōukon, 2012:3, 4, 15 (in key to *Psenini* of Japan, in Japanese), 28 (in list of Japanese *Psenini*).

spp. meridionalis (Tsuneki)

Psen vanlithi meridionalis Tsuneki, 1972c:5, ♂. Holotype: ♂, Taiwan: Ilan Prefecture: Ilan City (originally K. Tsuneki coll., now Hyogo Mus.). – Hashimoto and Nakanishi, 1997:235 (holotype transferred to Hyogo Mus.). – **As *Mimumesa vanlithi meridionalis***: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Porter, Stange, and Wang, 1999:6 (in checklist of Sphecidae of Taiwan); Hua, 2006:281 (in list of Chinese insects, geographic distribution); Terayama and Gōukon, 2012:15 (in key to *Psenini* of Japan, in Japanese).

32. wuestneii (Faester)

Psen wuestneii Faester, 1951:449, ♀ (as *wüstneii*, incorrect original diacritic mark). Holotype: ♀, Austria, Vienna (ZMK). – Noskiewicz and Puławski, 1960:49 (in key to Polish Sphecidae, not yet found in Poland, as *wüstnei*); Balthasar, 1972:247 (in Sphecid Fauna of Czechoslovakia: may be expected in the country); Kofler, 1972:108 (Austria: eastern Tirol: Matrei); van Lith, 1973a:113 (Romania: Cluj; redescription of ♀, description of ♂); Puławski, 1978:233 (in key to Sphecidae of European part of former USSR); Dollfuss, 1983a:76 (endangered in Niederösterreich, Austria), 80 (endangered in Tirol, Austria), 1983b:4 (in catalog of Sphecidae of Austria); Day, 1991:xvi (summary of European Endangered Hymenoptera Lists). – **As *Mimumesa wuestneii***: R. Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Dollfuss and Bitsch in Bitsch et al., 2001:36 (in Sphecid Fauna of Western Europe); Zettel, Gross, and Mazzucco, 2001:68 (Austria: Wien); Kofler, 2005:166 (no new records from Tirol after Kofler, 1972); Jacobs and Kroupa, 2007:326 (in partial key to European *Mimesa* including *longicornis*); Vepřek and Straka, 2007:199 (in catalog of Sphecidae of Czech Republic and Slovakia), 212 (record from Slovakia by Deván, 2005, needs confirmation); Józán, 2011:179 (in checklist of Sphecidae s.l. of Hungary).

sp.

Buck, 2004:24 (Canada: in checklist of Sphecidae of Ontario), 29 (distribution within Ontario), 37 (taxonomic comments, New Brunswick: Kouchibouguac National Park, Ontario: Lake Superior Provincial Park).