

The species-group names of bees (Hymenoptera: Apoidea, Apiformes) described from Siberia

Таксоны пчёл (Hymenoptera: Apoidea, Apiformes), описанные из Сибири

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Key words: bees, Apiformes, Russia, Palaearctic.

Ключевые слова: пчёлы, Apiformes, Россия, Палеарктика.

Abstract. The annotated list of 111 species-group names of bees (excepting bumble-bees) from 23 genera and six families described from Siberia by 27 authors during 1781–2011 is given. 49 species and six subspecies are valid. Data on types and their depository, current taxonomic status and distribution are provided for each taxa. Lectotype is designated for *Colletes mongolicus* Friese, 1914.

Резюме. Приведён аннотированный список 111 названий видовой группы пчёл (кроме шмелей) из 23 родов и шести семейств, описанных 27 авторами из Сибири в 1781–2011 гг. Из них 49 видов и 6 подвидов являются валидными. Для каждого таксона даны сведения о типе и месте его хранения, современном таксономическом положении и распространении. Обозначен лектотип *Colletes mongolicus* Friese, 1914.

Up to end of XIX century Siberia in Russia was recognized as the territory from Ural Mountains in the west to the Pacific Ocean in the east. Very often at that time the entomologists used for the type locality «Siberia occidentalis» (West Siberia) or «Siberia orientalis» (East Siberia, Far East). Even now many foreign entomologists divide Siberia thereby. Currently, Siberia includes 14 administrative regions of Russian Federation (Fig. 1) with square 9.7 millions sq. m (57 % of Russian Federation territory) [The National Atlas of Russia, 2008].

During 230 (1781–2011) years of extensive work by 27 entomologists 111 nominal names have been proposed for 49 species and six subspecies of Siberian bees (excepting bumble-bees which will be reviewed in separate paper). T. Cockerell (39), F. Morawitz (15) and O. Radoszkowski (10) described most of the taxa. In 1927 American entomologist T. Cockerell together with his wife Wilmatte crossed Siberia by Trans-Siberian Railroad. They collected bees near Baikal Lake (Irkutsk Prov. and Buryatia) in July – August of 1927 [Weber, 2000]. Based on this material T. Cockerell published four papers [Cockerell, 1928, 1929a, b, 1937],

and described 39 species, subspecies and varieties of bees. Of them eight species and a subspecies of bees are valid at present. During last decade only four species and one subspecies of bees have been described [Pesenko, Davydova, 2004; Proshchalykin, Lelej, 2010; Romankova, Astafurova, 2011].

Acronyms for collections where specimens are deposited are as follows: AMNY — American Museum of Natural History, New York, USA; IZK — Institute of Systematic and Experimental Zoology, Polish Academy of Sciences, Kraków, Poland; MNB — Museum für Naturkunde — Leibniz-Institut für Evolutions- und Biodiversitätsforschung an der Humboldt-Universität zu Berlin, Germany; NHML — The Natural History Museum, London, UK; ZISP — Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia; ZMMU — Zoological Museum of the Moscow State University, Russia. The classification of bees follows Michener [2007] and Pesenko [2007c]. When the nominal taxa are the synonyms the distribution is given for valid taxa.

List of species

Colletidae

Colletinae

Colletes mongolicus Friese, 1914

Colletes mongolicus Friese, 1914a: LXI (nom. praeeoc., nec Pérez, 1903), ♀, ♂ (lectotype: ♂, designated here / р. Бомын (Ичегын) / СВ Цайдамь, Гоби / Роб[оровский] Козлов VI.[18]95" (China, Qinghai) / lectotype *Colletes mongolicus* Friese, 1914 design. Proshchalykin et Lelej 2013, typewritten red label, examined [ZISP]).

Current status. *Colletes friesei* Cockerell, 1918 is replacement name for *C. mongolicus* Friese, 1914, nom. praeeoc., nec Pérez, 1903 [Cockerell, 1918: 159]. The lectotype which was designated by M. Kuhlmann [2000: 180]: ♀, «Mongolei, Monda, 6.08, Friese det.» is not valid, because type series originated from «Mongolei, nördlich

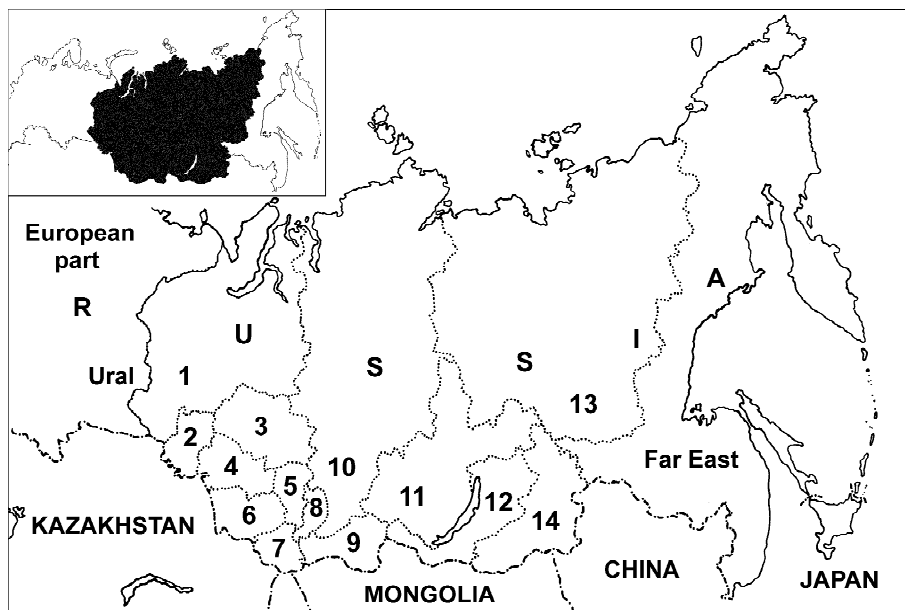


Fig. 1. Administrative map of Siberia (1–14). 1–7 — West Siberia: 1 — Tyumen Prov., 2 — Omsk Prov., 3 — Tomsk Prov., 4 — Novosibirsk Prov., 5 — Kemerovo Prov., 6 — Altayskiy Terr., 7 — Altai Republic. 8–14 — East Siberia: 8 — Khakassia Republic (Khakassia), 9 — Tuva Republic (Tuva), 10 — Krasnoyarsk Terr., 11 — Irkutsk Prov., 12 — Buryatia Republic (Buryatia), 13 — Sakha Republic (Yakutia), 14 — Zabaykalskiy Terr.

Рис. 1. Административная карта Сибири. 1–7 — Западная Сибирь: 1 — Тюменская обл., 2 — Омская обл., 3 — Томская обл., 4 — Новосибирская обл., 5 — Кемеровская обл., 6 — Алтайский край, 7 — Республика Алтай. 8–14 — Восточная Сибирь: 8 — Республика Хакасия (Хакасия), 9 — Республика Тыва (Тува), 10 — Красноярский край, 11 — Иркутская обл., 12 — Республика Бурятия (Бурятия), 13 — Республика Саха (Якутия), 14 — Забайкальский край.

von Zaidam, Ende Juni» collected by Roborovsky and Kozlov [Friese, 1914a: LIX]. The specimen wrongly designated by M. Kuhlmann as lectotype with label «Mongolei, Monda, 6.08» has been collected by Weiske in Mondy, Buryatia [Kerzhner, 1972] and is subsequent (not type) identified specimen.

Distribution. Russia: Buryatia; China (Qinghai, Shanxi) [Kuhlmann, Proshchalykin, 2011].

Colletes pseudocinerascens Noskiewicz, 1936

Colletes pseudocinerascens Noskiewicz, 1936: 424, ♀, ♂ (lectotype: ♂, Yakutia, Yakutsk, 16.VII.1927, leg. Moskvina, designated by Kuhlmann, 2000: 181 [ZISP]).

Current status. Valid [Kuhlmann, Proshchalykin, 2011].

Distribution. Russia: Yakutia, Altai Republic; Mongolia [Kuhlmann, Proshchalykin, 2011].

Hylaeinae

Hylaeus communis excurrens Cockerell, 1937

Hylaeus communis excurrens Cockerell, 1937: 5–6, ♀ (holotype: ♀, «Siberia: Smolenschina, near Irkutsk» [Irkutsk Prov.: Smolenschina, 10 km SW Irkutsk], 17.VIII.1927, leg. T. Cockerell [AMNY]).

Current status. A junior synonym of *Hylaeus sibiricus* (Strand, 1909) [Dathe, 1986: 38].

Distribution. See *Prosopis sibirica*.

Prosopis sibirica Strand, 1909

Prosopis sibirica Strand, 1909: 74–75, ♂ (holotype: ♂, «Siberia: Smolenschina» [Irkutsk Prov.: Smolenschina, 10 km SW Irkutsk] [MNB]).

Current status. Valid, as *Hylaeus sibiricus* (Strand, 1909) [Proshchalykin, Dathe, 2012].

Distribution. *Hylaeus sibiricus*: Russia: Jewish Autonomous Prov., Primorskiy Terr., Buryatia, Irkutsk Prov., Tuva; China (Jilin, Gansu), Mongolia [Proshchalykin, Dathe, 2012].

Andrenidae

Andreninae

Andrena altaica Lebedev, 1932

Andrena altaica Lebedev, 1932: 66, ♀, ♂ (syntypes: «Südwestlichen Altai: Dorf Malo-Krasnojarskoe [Novosibirsk Prov.: Malokrasnojarska, Nor-Zaisan [Kazakhstan: Zaisan Lake]] [ZMMU]).

Current status. Valid [Gusenleitner, Schwarz, 2002].

Distribution. Russia: Novosibirsk Prov.; Kazakhstan [Gusenleitner, Schwarz, 2002].

Andrena angarensis Cockerell, 1929

Andrena angarensis Cockerell, 1929a: 394–395, ♀, ♂ (holotype: ♀, «Siberia, Irkutsk» [Irkutsk Prov.: Irkutsk], July 1927, leg. W.P. Cockerell [NHML]).

Current status. Valid [Gusenleitner, Schwarz, 2002].

Distribution. Russia: Jewish Autonomous Prov., Amurskaya Prov., Primorskiy Terr., Zabaykalskiy Terr., Buryatia, Irkutsk Prov.; China (Heilongjiang), Mongolia, Kyrgyzstan [Xu, Tadauchi, 1999; Proshchalykin, 2012].

Andrena archanensis Cockerell, 1929

Andrena archanensis Cockerell, 1929a: 400–401, ♀ (holotype: ♀, «Archan, Siberia» [Buryatia: Archan], August 1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Andrena denticulata* (Kirby, 1802) [Gusenleitner, Schwarz, 2002: 222].

Distribution. Russia: Khabarovsk Terr., Amurskaya Prov., Sakhalin, Kuril Islands (Shikotan, Kunashir), Zabaikalskiy Terr., Irkutsk Prov., southern Ural; Japan (Hokkaido, Honshu, Shikoku), Korea, China (Shaanxi, Xinjiang, Jilin, Heilongjiang), Mongolia, Kazakhstan, Western Europe [Proshchalykin, 2012].

Andrena baicalensis Cockerell, 1929

Andrena baicalensis Cockerell, 1929a: 395, ♀ (holotype: ♀, «Baikal University Station, Siberia» [Irkutsk Prov.], August 1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Andrena tarsata* Nylander, 1848 [Gusenleitner, Schwarz, 2002: 747].

Distribution. Russia: Magadan Prov., Zabaikalskiy Terr., Irkutsk Prov., European part; China (Xinjiang, Sichuan), Mongolia, Middle Asia, Western Europe, North Africa [Proshchalykin, 2012].

Andrena baicalica Kokujev, 1927

Andrena baicalica Kokujev, 1927: 73, ♀ (holotype: ♀, ulus Berkin, 150 km N Listvennichnoe [Buryatia], 2.VIII.1902, leg. V.V. Sovinskij [ZISP]).

Current status. A junior synonym of *Andrena simillima* Smith, 1851 [Gusenleitner, Schwarz, 2002: 700].

Distribution. Russia: Buryatia, European part; Mongolia, Europe, Caucasus [Osytshnjuk et al., 2005].

Andrena baicaliella Cockerell, 1929

Andrena baicaliella Cockerell, 1929a: 396, ♂ (holotype: ♂, «Baikal University Station, Siberia» [Irkutsk Prov.], August 1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Andrena denticulata* (Kirby, 1802) [Gusenleitner, Schwarz, 2002: 222].

Distribution. See *Andrena archanensis*.

Andrena baleina Cockerell, 1929

Andrena baleina Cockerell, 1929a: 399–400, ♀ (holotype: ♀, «Ust Balei, Siberia» [Irkutsk Prov.: Ust'-Balei], July 1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Andrena bicolor* Fabricius, 1775 [Gusenleitner, Schwarz, 2002: 124].

Distribution. Russia: Irkutsk Prov., European part; Mongolia, Europe, North Africa, Caucasus, Turkey, Israel [Osytshnjuk et al., 2008].

Andrena belikovi Cockerell, 1929

Andrena belikovi Cockerell, 1929a: 402, ♀ (holotype: ♀, «Siberia: Smolenschina» [Irkutsk Prov.: Smolenschina, 10 km SW Irkutsk], 17.VIII.1927, leg. W.P. Cockerell [NHML]).

Current status. A junior synonym of *Andrena ehnerbergi* Morawitz, 1888 [Gusenleitner, Schwarz, 2002: 244].

Distribution. See *Andrena ehnerbergi* below.

Andrena bonivuri Osytshnjuk, 1984

Andrena bonivuri Osytshnjuk, 1984: 27–28, ♀, ♂ (holotype: ♀, Primorskiy Terr., Kedrovaya pad' Nature Reserve, 4.VIII.1963, leg. Zimina [ZMMU]; paratypes: Primorskiy Terr., Zabaikalskiy Terr.).

Current status. Valid [Gusenleitner, Schwarz, 2002].

Distribution. Russia: Primorskiy Terr., Zabaikalskiy Terr. [Proshchalykin, 2012].

Andrena callopyrrha kozlovi Osytshnjuk, 1994

Andrena callopyrrha kozlovi Osytshnjuk, 1994: 34, ♀, ♂ (holotype: ♂, Altai, Kosh-Agach, Chuiskaya steppe [Altai Republic], 26.VI.1964, leg. M.A. Kozlov [ZISP]).

Current status. A junior synonym of *Andrena callopyrrha* Cockerell, 1929 [Gusenleitner, Schwarz, 2002: 143].

Distribution. Russia: Altai Republic; China (Shandong) [Gusenleitner, Schwarz, 2002].

Andrena ehnerbergi Morawitz, 1888

Andrena ehnerbergi Morawitz, 1888: 238–239, ♀ (syntypes: «Siberia, Minusinsk» [Krasnoyarsk Terr.: Minusinsk] [ZISP]).

Current status. Valid [Gusenleitner, Schwarz, 2002].

Distribution. Russia: Amurskaya Prov., Primorskiy Terr., Zabaikalskiy Terr., Buryatia, Irkutsk Prov., Krasnoyarsk Terr.; China (Beijing, Hebei, Xinjiang), Mongolia, Middle Asia [Xu, Tadauchi, 1999; Proshchalykin, 2012].

Andrena intermedia Morawitz, 1871

Andrena intermedia Morawitz, 1871: 321–322, ♀ (syntypes: Kazan', Irkutsk [Russia] [ZISP]).

Current status. A junior synonym of *Andrena bimaculata* (Kirby, 1802) [Gusenleitner, Schwarz, 2002: 130].

Distribution. Russia: Irkutsk Prov., European part; Europe [Gusenleitner, Schwarz, 2002].

Andrena jasnitzkii Cockerell, 1929

Andrena jasnitzkii Cockerell, 1929a: 401, ♀ (holotype: ♀, «Baikal University Station, Siberia» [Irkutsk Prov.], August 1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Andrena fulvida* Schenck, 1853 [Osytshnjuk, 1986: 111].

Distribution. Russia: Khabarovsk Terr., Amurskaya Prov., Primorskiy Terr., Sakhalin, Yakutia, Buryatia, Irkutsk Prov., European part; Europe [Proshchalykin, 2012].

Andrena kuchtakensis Cockerell, 1929

Andrena kuchtakensis Cockerell, 1929a: 398–399, ♀ (holotype: ♀, «Kuchtak, Siberia» [Irkutsk Prov.: Kuchtak], 20.VIII.1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Andrena nanula* Nylander, 1848 [Gusenleitner, Schwarz, 2002: 511].

Distribution. Russia: Primorskiy Terr., Zabaikalskiy Terr., Buryatia, Irkutsk Prov., European part; Europe [Proshchalykin, 2012].

Andrena nova Popov, 1940

Andrena nova Popov, 1940: 254–256, ♀ (syntypes: 4♀♀, Ust'-Kiran, Dureny [Buryatia], Peschanka [Zabaikalskiy Terr.], Blagoveshchensk [Amur Prov.] [ZISP]).

Current status. Valid [Gusenleitner, Schwarz, 2002].

Distribution. Russia: Amur Prov., Primorskiy Terr., Zabaikalskiy Terr., Buryatia [Proshchalykin, 2012].

Andrena orientaliella Osytshnjuk, 1986

Andrena orientaliella Osytshnjuk, 1986: 111–114, ♀, ♂ (holotype — ♀, Yakutia, Yakutsk, 13.VI.1962, leg. Zhelokhovtsev [ZMMU]).

Current status. Valid [Gusenleitner, Schwarz, 2002].

Distribution. Russia: Magadan Prov., Khabarovsk Terr., Amurskaya Prov., Primorskiy Terr., Yakutia, Zabaikalskiy Terr., Buryatia; Mongolia [Proshchalykin, 2012].

Andrena ovinella Friese, 1914

Andrena ovinella Friese, 1914b: 224, ♀ (holotype: ♀, «Monda, Mongolei» [Mondy, Buryatia Republic, Russia], leg. Weiske [MNB]).

Current status. A junior synonym of *Andrena senex* Eversmann, 1852 [Gusenleitner, Schwarz, 2002: 687].

Distribution. *Andrena senex*: Russia: Buryatia, Tuva, Ural; Mongolia, China [Osytshnjuk et al., 2008].

Andrena phaneroleuca Cockerell, 1929

Andrena phaneroleuca Cockerell, 1929a: 396–397, ♂ (holotype: ♂, «Irkutsk, Siberia» [Irkutsk Prov.: Irkutsk], July 1927, leg. W.P. Cockerell [NHML]).

Current status. Valid [Gusenleitner, Schwarz, 2002].

Distribution. Russia: Irkutsk Prov. [Gusenleitner, Schwarz, 2002].

Andrena phaneromelas Cockerell, 1929

Andrena phaneromelas Cockerell, 1929a: 397–398, ♂ (holotype: ♂, «Ust Balei, Siberia» [Irkutsk Prov.: Ust'-Balei], July 1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Andrena bicolor* Fabricius, 1775 [Gusenleitner, Schwarz, 2002: 124].

Distribution. See *Andrena baleina*.

Andrena rosae alfkeni Friese, 1914

Andrena rosae var. *alfkeni* Friese, 1914b: 228, ♀ (syntypes: 3♀♀, «Irkutsk, Sibirien» [Irkutsk Prov.: Irkutsk], August 1896, leg. Staudinger [MNB]).

Current status. A junior synonym of *Andrena rosae* Panzer, 1801 [Gusenleitner, Schwarz, 2002: 639].

Distribution. Russia: Khabarovsk Terr., Amurskaya Prov., Primorskiy Terr., Sakhalin, Kuril Islands (Kunashir), Yakutia, Zabaikalskiy Terr., Irkutsk Prov., Western Siberia; Japan (Hokkaido), Korea, China (Heilongjiang), Mongolia, Kazakhstan [Proshchalykin, 2012].

Andrena sahlbergi Morawitz, 1888

Andrena sahlbergi Morawitz, 1888: 241–242, ♀, ♂ (syntypes: «Sibiria, Osnatschennaja» [Krasnoyarsk Terr.: Minusinsk distr.] [ZISP]).

Current status. A junior synonym of *Andrena combinata* (Christ, 1791) [Gusenleitner, Schwarz, 2002: 193].

Distribution. Russia: Magadan Prov., Yakutia, Zabaikalskiy Terr., Buryatia, Irkutsk Prov., Krasnoyarsk Terr., European part; North-Eastern China, Mongolia, Kazakhstan, Kyrgyzstan, Caucasus, Western Europe, North Africa [Proshchalykin, 2012].

Andrena sibirica Morawitz, 1888

Andrena sibirica Morawitz, 1888: 239–241, ♀ (syntypes: «Sibiria, Osnatschennaja» [Krasnoyarsk Terr.: Minusinsk distr.] [ZISP]).

Current status. Valid [Gusenleitner, Schwarz, 2002].

Distribution. Russia: Khabarovsk Terr., Jewish Autonomous Prov., Amurskaya Prov., Primorskiy Terr., Zabaikalskiy Terr., Buryatia, Irkutsk Prov., Krasnoyarsk Terr.; China (Beijing, Hebei, Inner Mongolia, Jilin), Mongolia, Kazakhstan [Proshchalykin, 2012].

Andrena transbaicalica Popov, 1949

Andrena transbaicalica Popov, 1949: 398, ♀ (holotype: Chitinskaya Prov.: Nerchinsk [Zabaikalskiy Terr.], coll. F. Morawitz [ZISP]).

Current status. Valid [Gusenleitner, Schwarz, 2002].

Distribution. Russia: Khabarovsk Terr., Amurskaya Prov., Primorskiy Terr., Yakutia, Zabaikalskiy Terr., Irkutsk Prov., Krasnoyarsk Terr.; Japan (Hokkaido, Honshu, Kyushu) [Proshchalykin, 2012].

Andrena universitatis Cockerell, 1929

Andrena universitatis Cockerell, 1929a: 403, ♀ (holotype: ♀, «Baikal University Station, Siberia» [Irkutsk Prov.], August 1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Andrena tarsata* Nylander, 1848 [Gusenleitner, Schwarz, 2002: 747].

Distribution. See *Andrena baicalensis*.

Panurginae

Panurginus dubius Osytshnjuk, 1995

Panurginus dubius Osytshnjuk, 1995: 527, ♀, ♂ (holotype: ♀, Irkutsk, coll. F. Morawitz [ZISP]).

Current status. A junior synonym of *Panurginus niger* Nylander, 1848 [Romankova, Astafurova, 2011: 28].

Distribution. See *Panurginus niger*.

Panurginus herzi Morawitz, 1891

Panurginus herzi Morawitz, 1891: 144, ♀, ♂ (lectotype: ♂, «Wiluis; к. Ф. Моравица; *Panurginus herzi*, ♂ (Morawitz's handwriting)» Yakutia, Vilyuisk, coll. F. Morawitz, designated by Romankova, Astafurova, 2011: 20 [ZISP]).

Current status. Valid [Romankova, Astafurova, 2011].

Distribution. Russia: Yakutia, Tuva, Kemerovo Prov., Altai Republic; Mongolia, Europe [Romankova, Astafurova, 2011].

Panurginus mikhno

Romankova et Astafurova, 2011

Panurginus mikhno Romankova, Astafurova, 2011: 26–27, ♀, ♂ (holotype: ♂, Chitinskaya Prov. [Zabaikalskiy Terr.], 20 km S Telemba, 12.VI.1991, *Fragaria* sp., leg. T. Romankova [ZISP]).

Current status. Valid [Romankova, Astafurova, 2011].

Distribution. Russia: Zabaikalskiy Terr., Altai Republic [Romankova, Astafurova, 2011].

Panurginus muraviovi

Romankova et Astafurova, 2011

Panurginus muraviovi Romankova, Astafurova, 2011: 27–28, ♀, ♂ (holotype: ♂, Kemerovo Prov., Belovskij distr., central part of Karakanskij Ridge, 4.VI.2008, *Fragaria viridis*, leg. D. Sidorov [ZISP]).

Current status. Valid [Romankova, Astafurova, 2011].

Distribution. Russia: Kemerovo Prov., Altai Republic; Mongolia [Romankova, Astafurova, 2011].

Panurginus niger Nylander, 1848

Panurginus niger Nylander, 1848: 223, ♀ (holotype: ♀, «E Sibiria; Sibiria or., leg. R.F. Sahlberg» [Finnish Museum of Natural History, Helsinki]).

Current status. Valid [Romankova, Astafurova, 2011].

Distribution. Russia: Khabarovsk Terr., Jewish Autonomous Prov., Amurskaya Prov., Primorskiy Terr., Zabaikalskiy Terr., Buryatia, Irkutsk Prov.; Mongolia [Romankova, Astafurova, 2011].

Halictidae

Rophitinae

Dufourea flavicornis Friese, 1914

Dufourea flavicornis Friese, 1914a: lx, ♂ (lectotype: ♂, «Mongolia: Monda, 6.08 [Weiske leg.]» [Russia: Mondy, Buryatia], designated by Patiny, 2003: 3 [MNB]).

Current status. Valid, as *Flavodufourea flavicornis* (Friese, 1914) [Pesenko, Astafurova, 2007]. The description of species [Friese, 1914a] based on the material collected by Roborovsky and Kozlov in 1893–1895, 1899–1901 which deposited in ZISP. The specimen designated as lectotype with label «Mongolei, Monda, 6.08» [deposited in MNB] has been collected by Weiske in Mondy, Buryatia in 1908

[Kerzhner, 1972] and probably is subsequent (not type) identified specimen.

Distribution. Russia (Buryatia) [Pesenko, Astafurova, 2007].

Dufourea paradoxa sibirica Pesenko, 1998

Dufourea paradoxa sibirica Pesenko, 1998: 680–681, ♀, ♂ (holotype: ♀, Yakutia, Balagannakh, 30 km ESE Ust'-Nera, 4.VII.1974, leg. Pesenko [ZISP]).

Current status. Valid [Pesenko, 2007b].

Distribution. Russia: Tuva, Yakutia, Altai; Mongolia [Pesenko, Astafurova, 2007].

Rophites bispinosa Eversmann, 1852

Rophites bispinosa Eversmann, 1852: 60, ♀, non ♂ (lectotype: ♂, Irkutsk Prov.: Irkutsk, designated by Pesenko, 1998: 682 [ZISP]).

Current status. A junior synonym of *Dufourea dentiventris* (Nylander, 1848) [Morawitz, 1866: 28].

Distribution. *Dufourea dentiventris*: Russia: Irkutsk Prov., Sverdlovskaya Prov., European part; North Korea, China (Qinghai), Western Europe [Pesenko, Astafurova, 2007].

Halictinae

Evylaeus yakuticus

Pesenko et Davydova, 2004

Evylaeus yakuticus Pesenko, Davydova, 2004: 696, ♀, ♂ (holotype: ♀, Yakutia, Abaga-1, 10 km above Olekminsk, 5.VIII.1974, leg. E. Narchuk [ZISP]).

Current status. Valid [Pesenko, 2007b].

Distribution. Russia: Amurskaya Prov., Yakutia, Zabaikalskiy Terr., south of Krasnoyarsk Terr. [Pesenko, 2007b].

Halictus altaicus Pérez, 1903

Halictus altaicus Pérez, 1903: 41, ♀ (lectotype: ♀, Altai, designated by Ebmer, 1972: 613 [Muséum National d'Histoire Naturelle, Paris, France]).

Current status. A junior synonym of *Halictus minor* Morawitz, 1876 [Ebmer, 1980: 472].

Distribution. Russia: Altai; China (Gansu, Inner Mongolia, Ningxia Hui, Liaoning), Kazakhstan, Middle Asia, Azerbaijan, North-Eastern Iran, Afghanistan, North-Western Pakistan, Northern India [Pesenko, 2007b].

Halictus angaricus Cockerell, 1937

Halictus angaricus Cockerell, 1937: 1, ♀ (holotype: ♀, «Ust Balei, Siberia» [Irkutsk Prov.: Ust'-Balei] [AMNY]).

Current status. Valid, as *Evylaeus angaricus* (Cockerell, 1937) [Pesenko, 2007b].

Distribution. Russia: Amurskaya Prov., Primorskiy Terr., Zabaikalskiy Terr.; Mongolia [Pesenko, 2007b].

Halictus baleicus Cockerell, 1937

Halictus baleicus Cockerell, 1937: 1, ♀, ♂ (holotype: ♀, «Ust Balei, Siberia» [Irkutsk Prov.: Ust'-Balei] [AMNY]).

Current status. Valid, as *Evylaeus baleicus baleicus* (Cockerell, 1937) [Pesenko, 2007b].

Distribution. Russia: Primorskiy Terr., Zabaikalskiy Terr., south of Irkutsk Prov.; Korea, China (Heilongjiang) [Pesenko, 2007b].

Halictus calceatus ulterior Cockerell, 1929

Halictus calceatus ulterior Cockerell, 1929b: 588, ♀, ♂ (holotype: ♀, «Siberia: Smolenschina» [Irkutsk Prov.: Smolenschina, 10 km SW Irkutsk], August 1927, leg. T. Cockerell [AMNY]).

Current status. A junior synonym of *Evylaeus calceatus* (Scopoli, 1763) [Ebmer, 1978: 201].

Distribution. Russia: Khabarovsk Terr., Amurskaya Prov., Primorskiy Terr., Sakhalin, Kuril Islands (Shikotan, Kunashir), Yakutia, Zabaikalskiy Terr., Buryatia, south of Irkutsk Prov., Altai, Western Siberia, European part; Japan (Hokkaido, Honshu, Kyushu), North Korea, Mongolia, China (Gansu, Heilongjiang), Western Europe [Pesenko, 2007b].

Halictus chlapovskii Vachal, 1902

Halictus chlapovskii Vachal, 1902: 226, ♀, ♂ (lectotype: ♀, Russia: «Siberie occid.», designated by Pesenko, 2006: 157 [IZK]).

Current status. A junior synonym of *Lasioglossum rostratum* (Eversmann, 1852) [Blüthgen, 1926: 404].

Distribution. Russia: Khabarovsk Terr., Amurskaya Prov., Primorskiy Terr., Zabaikalskiy Terr., Irkutsk Prov., south of Krasnoyarsk Terr., Tuva, Altai, south of Western Siberia and Ural; Northern and Eastern Mongolia, China (Xinjiang, Gansu, Qinghai, Shanxi, Shaanxi, Beijing, Hebei, Liaoning), Northern and Western Kazakhstan [Pesenko, 2007b].

Halictus compressus transvolgensis
Pesenko, 1985

Halictus compressus transvolgensis Pesenko, 1985: 95, ♂ (holotype: ♂, 100 km S Omsk, 23.VIII.1899, leg. Ignatov [ZISP]).

Current status. Valid [Pesenko, 2007b].

Distribution. Russia: Zabaikalskiy Terr., Buryatia, Irkutsk Prov., Krasnoyarsk Terr., Western Siberia, European part; China (Xinjiang), South-Eastern Kazakhstan, Kyrgyzstan [Pesenko, 2007b].

Halictus denticollis Morawitz, 1891

Halictus denticollis Morawitz, 1891: 145, ♀ (lectotype: ♀, Krasnoyarsk Terr.: Minusinsk, designated by Pesenko, 1986: 139 [ZISP]).

Current status. Valid, as *Lasioglossum denticolle* (Morawitz, 1891) [Pesenko, 2007b].

Distribution. Russia: Khabarovsk Terr., Amurskaya Prov., Primorskiy Terr., Buryatia, south of Krasnoyarsk Terr.; North Korea, China [Pesenko, 2007b].

Halictus ferripennis Cockerell, 1929

Halictus ferripennis Cockerell, 1929b: 586, ♀ (syntypes: 2♀♀, «Smolenschina (near Irkutsk), Siberia» [Irkutsk Prov.: Smolenschina, 10 km SW Irkutsk], August 1927, leg. T. Cockerell [NHML]).

Current status. Valid, as *Seladonia tumulorum ferripennis* (Cockerell, 1929) [Pesenko, 2007b].

Distribution. Russia: Magadan Prov., Amurskaya Prov., Primorskiy Terr., Sakhalin, Yakutia, Zabaikalskiy Terr., Buryatia, south of Irkutsk Prov., south of Krasnoyarsk Terr., Altai; Central and Eastern Mongolia, Korean Peninsula, China (Inner Mongolia, Heilongjiang, Jilin), Japan (Hokkaido, Honshu) [Pesenko, 2007b].

Halictus laevifrons Blüthgen, 1923

Halictus laevifrons Blüthgen, 1923: 324, ♀ (lectotype: ♀, Russia: «Siberia», designated by Pesenko, 2006: 152 [IZK]).

Current status. A junior synonym of *Lasioglossum denticolle* (Morawitz, 1891) [Blüthgen, 1934: 300].

Distribution. Russia: Khabarovsk Terr., Amurskaya Prov., Primorskiy Terr., Buryatia, south of Krasnoyarsk Terr.; North Korea, China (Xinjiang, Shanxi, Heilongjiang, Shandong, Xizang, Yunnan, Inner Mongolia, Hebei, Liaoning, Beijing, Jilin, Fujian, Jiangxi, Hunan) [Pesenko, 2007b].

Halictus minutulus speculariferus Cockerell, 1937

Halictus minutulus speculariferus Cockerell, 1937: 2–3 (nom. praecoc., nec *Halictus speculariferus* Cockerell, 1929 [= *Seladonia vicina*]), ♀ (holotype: ♀, «Siberia: Smolenschina» [Irkutsk Prov.: Smolenshchina, 10 km SW Irkutsk], 21.VIII.1927, leg. T. Cockerell [AMNY]).

Current status. A junior synonym of *Evyllaes semilaevis* (Blüthgen, 1923) [Ebmer, 1996: 281].

Distribution. Russia: Khabarovsk Terr., Amurskaya Prov., Primorskiy Terr., Zabaikalskiy Terr., south of Irkutsk Prov., Altai; Mongolia, China (Heilongjiang) [Pesenko, 2007b].

Halictus mondaensis Blüthgen, 1923

Halictus mondaensis Blüthgen, 1923: 285, ♀ (holotype: ♀, «Mongolei: Monda, 6.[19]08, Weiske leg.» [Russia: Mondy, Buryatia] [MNB]).

Current status. Valid, as *Seladonia mondaensis* (Blüthgen, 1923) [Pesenko, 2007b].

Distribution. Russia: Magadan Prov., Yakutia, Buryatia, Tuva; Central Mongolia [Pesenko, 2007b].

Halictus monstreficus Morawitz, 1891

Halictus monstreficus Morawitz, 1891: 147, ♂ (lectotype, ♂, Irkutsk Prov.: Irkutsk, designated by Ebmer, 1985: 219 [ZISP]).

Current status. Valid, as *Evyllaes monstreficus* (Morawitz, 1891) [Pesenko, 2007b].

Distribution. Russia: Irkutsk Prov. [Pesenko, 2007b].

Halictus semilaevis Blüthgen, 1923

Halictus semilaevis Blüthgen, 1923: 329, ♀, ♂ (lectotype: ♂, «Siberie occid.», designated by Pesenko, 2007a: 99 [IZK]).

Current status. Valid, as *Evyllaes semilaevis* (Blüthgen, 1923) [Pesenko, 2007b].

Distribution. Russia: Khabarovsk Terr., Amurskaya Prov., Primorskiy Terr., Zabaikalskiy Terr., south of Irkutsk Prov., Altai; Mongolia, China (Heilongjiang) [Pesenko, 2007b].

Halictus transbaikalensis Blüthgen, 1933

Halictus transbaikalensis Blüthgen, 1933: 76, ♀ (holotype: ♀, Russia: «Süd-Trans-baikalien» [MNB]).

Current status. Valid, as *Seladonia transbaikalensis* (Blüthgen, 1933) [Pesenko, 2007b].

Distribution. Russia: Zabaikalskiy Terr., Irkutsk Prov.; Mongolia, China (Inner Mongolia) [Pesenko, 2007b].

Lasioglossum fulvicorne melanocorne
Ebmer, 1988

Lasioglossum fulvicorne melanocorne Ebmer, 1988: 608, ♀, ♂ (holotype: ♂: Irkutsk Prov.: Irkutsk [private collection of A.W. Ebmer, Linz, Austria]).

Current status. Valid, as *Evyllaes fulvicornis melanocornis* (Ebmer, 1988) [Pesenko, 2007b].

Distribution. Russia: Khabarovsk Terr., Amurskaya Prov., Primorskiy Terr., Sakhalin, Kuril Islands (Kunashir), Yakutia, south of Irkutsk Prov., south of Krasnoyarsk Terr., Altai; Mongolia [Pesenko, 2007b].

Lasioglossum kasparyani Pesenko, 1986

Lasioglossum kasparyani Pesenko, 1986: 132, ♀ (holotype: ♀, Tuva, Turan, 2.VI.1975, leg. D.R. Kasparyan [ZISP]).

Current status. A junior synonym of *Lasioglossum eos* Ebmer, 1978 [Pesenko, 2006: 146].

Distribution. Russia: Amurskaya Prov., Primorskiy Terr., Buryatia, Irkutsk Prov., Tuva; Mongolia, China (Xinjiang, Jilin, Hebei, Liaoning, Heilongjiang, Shandong) [Pesenko, 2007b].

Sphecodes angarensis Cockerell, 1937

Sphecodes angarensis Cockerell, 1937: 3–4, ♀ (holotype: ♀, «Ust-Balei on the Angara River» [Irkutsk Prov.: Ust'-Balei], July 1927, leg. T. Cockerell [AMNY]).

Current status. Valid [Pesenko, 2007b].

Distribution. Russia: Irkutsk Prov. [Pesenko, 2007b].

Melittidae

Melittinae

Cilissa sibirica Morawitz, 1888

Cilissa sibirica Morawitz 1888: 237, ♀ (lectotype: ♀, «Sibiria, Osnatschennaja» [Krasnoyarsk Terr.: Minusinsk distr.], designated by Michez, Eardley, 2007: 418 [ZISP]).

Current status. Valid, as *Melitta sibirica* (Morawitz, 1888) [Michez, Eardley, 2007].

Distribution. Russia: Krasnoyarsk Terr., European part; Mongolia, China (Qinghai), Middle Asia, India [Michez, Eardley, 2007].

Megachilidae

Megachilinae

Anthidium baicalense Cockerell, 1928

Anthidium baicalense Cockerell, 1928: 351, ♂ (holotype: ♂, «Baikal Railway Station» [Irkutsk Prov.: Baikal village], 31.VII.1927, leg. T. Cockerell).

Current status. A junior synonym of *Anthidium punctatum* Latreille, 1809 [van der Zanden, 1995: 433].

Distribution. Russia: Khabarovsk Terr., Primorskiy Terr., Jewish Autonomous Prov., Amurskaya Prov., Yakutia, Zabaikalskiy Terr., Buryatia, Irkutsk Prov., Krasnoyarsk Terr., Tuva, Khakassia, Altaiskiy Terr., European part; Kazakhstan, Northern China, Middle Asia, Caucasus, Europe, North Africa [Proshchalykin, 2013].

Anthidium comatum Morawitz, 1896

Anthidium comatum Morawitz, 1896: 164, ♀, ♂ (lectotype: ♂, Krasnoyarsk, coll. F. Morawitz, designated by Proshchalykin, 2013: 151 [ZISP]).

Current status. A junior synonym of *Anthidium amurense* Radoszkowski, 1876 [Proshchalykin, 2013: 151].

Distribution. Russia: Khabarovsk Terr., Primorskiy Terr., Jewish Autonomous Prov., Amurskaya Prov., Yakutia, Zabaikalskiy Terr., Buryatia, Irkutsk Prov., Krasnoyarsk Terr., Khakassia; China (Hebei, Xinjiang) [Proshchalykin, 2013].

Anthidium greyi Radoszkowski, 1862

Anthidium greyi Radoszkowski, 1862: 597–598, ♂ (holotype: ♂, «Sibirie»).

Current status. A junior synonym of *Anthidium punctatum* Latreille, 1809 [Warncke, 1980: 190].

Distribution. See *Anthidium baicalense*.

Anthidium pauperculum Cockerell, 1928

Anthidium pauperculum Cockerell, 1928: 351–352, ♂ (holotype: ♂, «Smolenschina, Siberia» [Irkutsk Prov.: Smolenshchina, 10 km SW Irkutsk], 21.VIII.1927, leg. T. Cockerell).

Current status. A junior synonym of *Anthidiellum strigatum* (Panzer, 1805) [Romankova, 1994: 127].

Distribution. Russia: Khabarovsk Terr., Jewish Autonomous Prov., Amurskaya Prov., Primorskiy Terr., Zabaikalskiy Terr., Buryatia, Irkutsk Prov., Krasnoyarsk Terr., Khakassia; China (Hebei, Xinjiang) [Proshchalykin, 2013].

kalskiy Terr., Buryatia, Irkutsk Prov., Altayskiy Terr., Kemerovo Prov., Novosibirsk Prov., European part; Korea, Kazakhstan, Northern and Central Europe, Caucasus, North Africa [Proshchalykin, 2013].

Megachile angarensis
Cockerell, 1928

Megachile angarensis Cockerell, 1928: 354, ♀, ♂ (holotype: ♀, «Baikal Railway Station» [Irkutsk Prov.: Baikal village], 31.VII.1927, leg. T. [NHML]).

Current status. A junior synonym of *Megachile analis* Nylander, 1852 [Romankova, 1994: 126].

Distribution. Russia: Magadan Prov., Kamchatskiy Terr., Khabarovsk Terr., Amurskaya Prov., Primorskiy Terr., Sakhalin, Yakutia, Zabaikalskiy Terr., Buryatia, Irkutsk Prov., European part; North Korea, Turkmenistan, Europe [Proshchalykin, 2012].

Megachile baicalica Kokujev, 1927

Andrena baicalica Kokujev, 1927: 75, ♀ (holotype: ♀, Kultuk, near Slyudyanka River and Talaya River [Irkutsk Prov.], 26.VI.1902, leg. V.V. Sovinskiy [ZISP]).

Current status. A junior synonym of *Megachile fulvimana* Eversmann, 1852 [Banaszak, Romasenko, 2001: 148].

Distribution. Russia: Kamchatskiy Terr., Khabarovsk Terr., Amurskaya Prov., Primorskiy Terr., Sakhalin, Yakutia, Zabaikalskiy Terr., Buryatia, Irkutsk Prov., Western Siberia, Ural, European part; Mongolia, Kazakhstan, Europe [Proshchalykin, 2012].

Megachile baleina Cockerell, 1928

Megachile baleina Cockerell, 1928: 353–354, ♀, ♂ (holotype: ♂, «Ust Balei on River Angara» [Irkutsk Prov.: Ust'-Balei], 2.VII.1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Megachile lagopoda* (Linnaeus, 1761) [Romankova, 1994: 126].

Distribution. Russia: Khabarovsk Terr., Jewish Autonomous Prov., Amurskaya Prov., Primorskiy Terr., Zabaikalskiy Terr., Buryatia, Irkutsk Prov., Western Siberia, European part; Middle Asia, Northern and Central Europe [Proshchalykin, 2012].

Megachile centuncularis sachaensis
Davydova et Pesenko, 2002

Megachile centuncularis sachaensis Davydova, Pesenko, 2002: 588–589, ♀, ♂ (holotype: ♀, Yakutia, vicinity of Yakutsk, Chuchur-Muran Mt., *Veronica incana*, 17.VII.1974, leg. Yu.A. Pesenko [ZISP]).

Current status. Valid [Davydova, Pesenko, 2002].

Distribution. Russia: Yakutia [Davydova, Pesenko, 2002].

Megachile circumcincta lactescens
Cockerell, 1928

Megachile circumcincta var. *lactescens* Cockerell, 1928: 355, ♀ (holotype: ♀, «Baikal Univ. Station» [Irkutsk Prov.], August 1927, leg. T. Cockerell [NHML]).

Current status. Valid [Davydova, Pesenko, 2002].

Distribution. Russia: Yakutia, Buryatia, Irkutsk Prov. [Davydova, Pesenko, 2002].

Megachile dybowskii
Cockerell, 1928

Megachile dybowskii Cockerell, 1928: 359, ♀ (holotype: ♀, «Baikal Railway Station» [Irkutsk Prov.: Baikal village], 4.VIII.1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Megachile fulvimana* Eversmann, 1852 [Romankova, 1994: 126].

Distribution. See *Megachile baicalica*.

Megachile epovae Cockerell, 1928

Megachile epovae Cockerell, 1928: 356, ♀ (holotype: ♀, «Baikal University Station» [Irkutsk Prov.], August 1927, leg. T. Cockerell [NHML]).

Current status. Valid. This species even not mentioned since description and requires the revision.

Distribution. Russia: Irkutsk Prov. [Cockerell, 1928].

Megachile korotnevi Cockerell, 1928

Megachile korotnevi Cockerell, 1928: 357, ♀ (holotype: ♀, «Baikal University Station» [Irkutsk Prov.], August 1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Megachile wilughbiella* (Kirby, 1802) [Romankova, 1994: 126].

Distribution. Russia: Magadan Prov., Khabarovsk Terr., Jewish Autonomous Prov., Amurskaya Prov., Primorskiy Terr., Sakhalin, Kuril Islands (Kunashir), Yakutia, Zabaikalskiy Terr., Buryatia, Irkutsk Prov., European part; Japan (Hokkaido, Honshu), Europe [Proshchalykin, 2012].

Megachile kychtacensis Cockerell, 1928

Megachile kychtacensis Cockerell, 1928: 354–355, ♀ (holotype: ♀, «Kychtak, near Irkutsk» [Irkutsk Prov.: Kashtak], 20.VIII.1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Trachusa byssina* (Panzer, 1798) [van der Zanden, 1995: 432].

Distribution. Russia: Jewish Autonomous Prov., Amurskaya Prov., Zabaikalskiy Terr., Irkutsk Prov., Krasnoyarsk Terr., Tuva, Khakassia, Kemerovo Prov., Tomsk Prov., Ural, European part; Mongolia, Caucasus, Europe [Proshchalykin, 2012].

Megachile lapponica baicalica
Cockerell, 1928

Megachile lapponica baicalica Cockerell, 1928 (nom. praeocc., nec Kokujev, 1927): 355–356, ♀ (holotype: ♀, «Baikal University Station» [Irkutsk Prov.], August 1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Megachile lapponica* Thomson, 1872 [Schwarz et al., 1996: 107].

Distribution. Russia: Magadan Prov., Kamchatskiy Terr., Khabarovsk Terr., Amurskaya Prov., Primorskiy Terr., Sakhalin, Kuril Islands (Kunashir), Yakutia, Zabaikalskiy Terr., Buryatia, Irkutsk Prov., Western Siberia, North Ural, European part; Korea, Europe [Proshchalykin, 2012].

Megachile lapponica var. *kurbati* Cockerell, 1928

Megachile lapponica var. *kurbati* Cockerell, 1928: 356, ♀ (holotype: ♀, «Baikal University Station» [Irkutsk Prov.], August 1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Megachile lapponica* Thomson, 1872 [Schwarz et al., 1996: 107].

Distribution. See *Megachile lapponica baicalica*.

Megachile maackii Radoszkowski, 1874

Megachile maackii Radoszkowski, 1874: 135, ♀, ♂ (syntypes: St. Peterburg, Irkutsk, Russia).

Current status. Valid [Schwarz et al., 1996].

Distribution. Russia: Magadan Prov., Khabarovsk Terr., Amurskaya Prov., Primorskiy Terr., Yakutia, Buryatia, Irkutsk Prov., European part; Europe, Central Asia [Proshchalykin, 2012].

Megachile pilicruriformis Cockerell, 1928

Megachile pilicruriformis Cockerell, 1928: 356, ♀ (holotype: ♀, «Ust Balei» [Irkutsk Prov.: Ust'-Balei], July 1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Megachile versicolor* Smith, 1844 [van der Zanden, 1995: 431].

Distribution. Russia: Kamchatskiy Terr., Khabarovsk Terr., Jewish Autonomous Prov., Amurskaya Prov., Primorskiy Terr., Yakutia, Zabaikalskiy Terr., Irkutsk Prov., Western Siberia, European part; Europe [Proshchalykin, 2012].

Megachile rubtzovi Cockerell, 1928

Megachile rubtzovi Cockerell, 1928: 357, ♀ (holotype: ♀, «Ust Balei» [Irkutsk Prov.: Ust'-Balei], July 1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Megachile alpicola* Alfken, 1924 [Romankova, 1994: 126].

Distribution. Russia: Kamchatskiy Terr., Khabarovsk Terr., Amurskaya Prov., Primorskiy Terr., Sakhalin, Yakutia, Zabaikalskiy Terr., Buryatia, Irkutsk Prov., European part; Korea, Europe [Proshchalykin, 2012].

Megachile scheviakovi Cockerell, 1928

Megachile scheviakovi Cockerell, 1928: 358, ♀ (holotype: ♀, «Irkutsk, Siberia, in Dr. Schewiakoff's garden» [Irkutsk Prov.: Irkutsk], 20.VIII.1927, leg. W.T. Cockerell [NHML]).

Current status. Valid [Ascher, Pickering, 2013].

Distribution. Russia: Irkutsk Prov. [Ascher, Pickering, 2013].

Osmia daurica Radoszkowski, 1887

Osmia daurica Radoszkowski, 1887: 284, ♀ (holotype: ♀, «Côté orientale du lac Baical» [Baikal Lake, Buryatia]).

Current status. Valid, as *Hoplitis daurica* (Radoszkowski, 1887) [Müller, 2013].

Distribution. Russia: Buryatia [Müller, 2013].

Osmia archanensis Cockerell, 1928

Osmia archanensis Cockerell, 1928: 353, ♀ (holotype: ♀, «Archan, Siberia» [Buryatia: Arshan], August 1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Chelostoma rapunculi* (Lepelletier, 1841) [Tkalcù, 1967: 94].

Distribution. Russia: Khabarovsk Terr., Jewish Autonomous Prov., Amurskaya Prov., Sakhalin, Buryatia, European part; Kazakhstan, Turkmenistan, Europe, North America [Proshchalykin, 2012; Müller, 2013].

Osmia baicalensis Radoszkowski, 1867

Osmia baicalensis Radoszkowski, 1867: 80–81, ♀ (lectotype: ♀, «Sibérie: environs du Baikal», designated by van der Zanden, 1991: 353 [MNB]).

Current status. A junior synonym of *Osmia nigriventris* (Zetterstedt, 1838) [van der Zanden, 1991: 353].

Distribution. Russia: Chukotka, Magadan Prov., Kamchatskiy Terr., Khabarovsk Terr., Jewish Autonomous Prov., Amurskaya Prov., Primorskiy Terr., Sakhalin, Yakutia, Buryatia, North Ural, European part; Mongolia, Northern China, Europe [Proshchalykin, 2012; Müller, 2013].

Osmia ephippiata Smith, 1879

Osmia ephippiata Smith, 1879: 60, ♀ (holotype: ♀, «Angara River, Siberia» [Irkutsk Prov.] [BMNH]).

Current status. Valid [Müller, 2013].

Distribution. Irkutsk Prov.; Central Asia [Müller, 2013].

Osmia platyodonta Cockerell, 1928

Osmia platyodonta Cockerell, 1928: 352, ♂ (holotype: ♂, «Irkutsk, Siberia» [Irkutsk Prov.: Irkutsk], at flowers of *Campnula*, July 1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Chelostoma rapunculi* (Lepelletier, 1841) [Tkalcù, 1967: 94].

Distribution. See *Osmia archanensis*.

Osmia rubripes Smith, 1879

Osmia rubripes Smith, 1879: 60, ♀ (holotype: ♀, «Angara River, Siberia» [Irkutsk Prov.] [NHML]).

Current status. A junior synonym of *Hoplitis scita* (Eversmann, 1852) [Tkalcù, 1995: 122].

Distribution. Russia: Khabarovsk Terr., Amurskaya Prov., Primorskiy Terr., Buryatia, Irkutsk Prov., Ural; Mongolia, Kazakhstan, North-Eastern China [Proshchalykin, 2012; Müller, 2013].

Osmia rufitarsis Smith, 1879

Osmia rufitarsis Smith, 1879: 61, ♀ (holotype: ♀, «Angara River, Siberia» [Irkutsk prov.] [NHML]).

Current status. A junior synonym of *Osmia bicolor* (Schränk, 1781) [Tkalcù, 1995: 142].

Distribution. Irkutsk Prov., European part; Europe, Central Asia [Müller, 2013].

Apidae

Xylocopinae

Xylocopa nitidiventris altaica Popov, 1947

Xylocopa nitidiventris altaica Popov, 1947: 43–44, ♀ (syn-types: 3♀♀, Chui River Valley, Chuisakaya steppe [Altai Republic], 1561 m, June 1848, leg. V. Berezovskij [ZISP]).

Current status. A junior synonym of *Xylocopa nitidiventris przewalskyi* Morawitz, 1877 [Warncke, 1982: 29].

Distribution. Russia: Altai Republic; North-Western China [Warncke, 1982].

Nomadinae

Ammobates rufitarsis Smith, 1879

Ammobates rufitarsis Smith, 1879: 101, ♀ (holotype: ♀, Irkutsk, Siberia [NHML]).

Current status. A junior synonym of *Ammobatoides abdominalis* (Eversmann, 1852) [Popov, 1936: 159].

Distribution. See *Phiarus angarensis*.

Epeolus laticauda Bischoff, 1930

Epeolus laticauda Bischoff, 1930: 13, ♂ (holotype: ♂, «Mongolei (Monda) [6.08, Weiske leg.]» [Russia: Mondy, Buryatia]).

Current status. Valid [Popov, 1935].

Distribution. Russia: Buryatia; Tajikistan [Popov, 1935].

Epeolus nudiventris Bischoff, 1930

Epeolus nudiventris Bischoff, 1930: 14, ♀, ♂ (holotype: ♀, «Mongolei, Monda [6.08, Weiske leg.]» [Russia: Mondy, Buryatia]).

Current status. Valid. This species even not mentioned since description and requires the revision.

Distribution. Russia: Buryatia [Bischoff, 1930].

Nomada albidemaculata Łoziński, 1922

Nomada albidemaculata Łoziński, 1922: 104, ♀ (holotype: ♀, «Siberia orientalis» [Eastern Siberia]).

Current status. Valid [Alexander, Schwarz, 1994].

Distribution. Russia: Eastern Siberia [Łoziński, 1922].

Nomada belikovi Cockerell, 1928

Nomada belikovi Cockerell, 1928: 348, ♀, ♂ (lectotype: ♀, «Irkutsk: Smolenschina» [Irkutsk Prov.: Smolenshchina, 10 km SW Irkutsk], 1927, leg. T. Cockerell, designated by Schwarz, 1988: 382 [NHML]).

Current status. A junior synonym of *Nomada fulvicornis* Fabricius, 1793 [Schwarz, 1988: 382].

Distribution. Russia: Primorskiy Terr., Yakutia, Buryatia, Irkutsk Prov., European part; Europe [Proshchalykin, 2012].

Nomada dybovskij Radoszkowski, 1876

Nomada dybovskij Radoszkowski, 1876: 93–94, ♀ (syntypes: «Kouttoug (Environ de Baical)» [Irkutsk Prov.: Kultuk]).

Current status. Valid [Alexander, Schwarz, 1994].

Distribution. Russia: Irkutsk Prov. [Alexander, Schwarz, 1994].

Nomada ecarinata Morawitz, 1888

Nomada ecarinata Morawitz, 1888: 257–259, ♀ (holotype: ♀, «Sibiria, Osnatschennaja» [Krasnoyarsk Terr.: Minusinsk distr.] [ZISP]).

Current status. Valid [Alexander, Schwarz, 1994].

Distribution. Russia: Krasnoyarsk Terr. [Alexander, Schwarz, 1994].

Nomada errans var. *sibirica*
Friese, 1921

Nomada errans var. *sibirica* Friese, 1921: 255, ♀, ♂ (syntypes: Irkutsk, 1896, leg. Yakowlew).

Current status. A junior synonym of *Nomada errans* Lepeletier, 1841 [Alexander, Schwarz, 1994: 243].

Distribution. Russia: Irkutsk Prov., European part; Southern and Central Europe [Alexander, Schwarz, 1994].

Nomada hammarstroemi Morawitz, 1888

Nomada hammarstroemi Morawitz, 1888: 254–257, ♀, ♂ (lectotype: ♀, «Sibiria, Osnatschennaja» [Krasnoyarsk Terr.: Minusinsk distr.], designated by Schwarz, 1980: 17 [ZISP]).

Current status. Valid [Alexander, Schwarz, 1994].

Distribution. Russia: Krasnoyarsk Terr. [Alexander, Schwarz, 1994].

Nomada jasnitkii Cockerell, 1928

Nomada jasnitkii Cockerell, 1928: 348–349, ♀, ♂ (lectotype: ♀, «Irkutsk: Smolenschina» [Irkutsk Prov.: Smolenshchina, 10 km SW Irkutsk], 21.VIII.1927, leg. T. Cockerell, designated by Schwarz, 1988: 384 [NHML]).

Current status. A junior synonym of *Nomada flavopicta* (Kirby, 1802) [Schwarz, 1988: 381].

Distribution. Russia: Irkutsk Prov., European part; Europe [Proshchalykin, 2009].

Nomada lineola var. *brunneofasciata*
Łoziński, 1922

Nomada lineola var. *brunneofasciata* Łoziński, 1922: 100–101, ♀ (holotype: ♀, «Siberia occidentalis» [Western Siberia]).

Current status. A junior synonym of *Nomada fulvicornis* Fabricius, 1793 [Alexander, Schwarz, 1994: 247].

Distribution. See *Nomada belikovi*.

Nomada lineola var. *quadrivittata*
Łoziński, 1922

Nomada lineola var. *quadrivittata* Łoziński, 1922: 101, ♀ (holotype: ♀, «Siberia orientalis» [Eastern Siberia]).

Current status. A junior synonym of *Nomada fulvicornis* Fabricius, 1793 [Alexander, Schwarz, 1994: 247].

Distribution. See *Nomada belikovi*.

Nomada lineola var. *sibirica*
Mocsáry, 1901

Nomada lineola var. *sibirica* Mocsáry in Mocsáry, Szépliget, 1901: 168, without sex (syntype(s): «Sibiria: Minusinsk» [Krasnoyarsk Terr.: Minusinsk]).

Current status. A junior synonym of *Nomada fulvicornis* Fabricius, 1793 [Alexander, Schwarz, 1994: 248].

Distribution. See *Nomada belikovi*.

Nomada mitaii
Proshchalykin, 2010

Nomada mitaii Proshchalykin in Proshchalykin, Lelej, 2010: 6, ♀, ♂ (holotype: ♂, Primorskiy Terr., Khasan, 13.VIII.1998, leg. S. Belokobylskij [ZISP]; paratypes: Primorskiy Terr., Jewish Autonomous Prov., Amurskaya Prov., Zabaikalskiy Terr.; Mongolia).

Current status. Valid [Proshchalykin, Lelej, 2010].

Distribution. Russia: Amurskaya Prov., Jewish Autonomous Prov., Primorskiy Terr., Zabaikalskiy Terr., Khakassia; Mongolia [Proshchalykin, 2012].

Nomada olhae Cockerell, 1928

Nomada olhae Cockerell, 1928: 350, ♀ (holotype: ♀, «Smolenschina» [Irkutsk Prov.: Smolenshchina, 10 km SW Irkutsk], 17.VIII.1927, leg. T. Cockerell [NHML]).

Current status. A junior synonym of *Nomada pulchra* Arnold, 1888 [Schwarz, 1988: 385].

Distribution. Russia: Irkutsk Prov., European part; Europe [Proshchalykin, 2009].

Nomada palmeni Morawitz, 1888

Nomada palmeni Morawitz, 1888: 253–254, ♀ (lectotype: ♀, «Amur, Nikolaevsk» [Nikolaevsk-on-Amur, Khabarovsk Terr.], coll. F. Morawitz, designated by Proshchalykin, Lelej, 2010: 8 [ZISP]).

Current status. Valid. In the original description of *Nomada palmeni* the type specimen (or specimens) came from the Minusinsk district [Krasnoyarsk Terr.] [Morawitz, 1888]. In Morawitz's collection (housed in ZISP), there is one specimen with handwritten by Morawitz label «*Nomada Palmeni* ♀ F. Morawitz» from Nikolaevsk [Khabarovsk Terr.]. This specimen perfectly corresponds to the Morawitz's description and was designated as the lectotype of *Nomada palmeni* [Proshchalykin, Lelej, 2010].

Distribution. Russia: Khabarovsk Terr., Irkutsk Prov., Krasnoyarsk Terr. [Proshchalykin, Lelej, 2010].

Nomada planifrons Łoziński, 1922

Nomada planifrons Łoziński, 1922: 101, ♀, ♂ (syntypes: «Siberia orientalis» [Eastern Siberia]).

Current status. Valid. In the world catalogue of *Nomada* species [Alexander, Schwarz, 1994: 258] this species regards as incertae sedis.

Distribution. Russia: Eastern Siberia [Łoziński, 1922].

Nomada scheviakovi
Cockerell, 1928

Nomada scheviakovi Cockerell, 1928: 349, ♀ (holotype: ♀, «Smolenschina» [Irkutsk Prov.: Smolenshchina, 10 km SW Irkutsk], 17.VIII.1927, leg. W.P. Cockerell [NHML]).

Current status. A junior synonym of *Nomada goodeni-ana* (Kirby, 1802) [Schwarz, 1988: 385].

Distribution. Russia: Irkutsk Prov., European part; Europe [Proshchalykin, 2009].

Nomada scutellaris Fabricius, 1781

Nomada scutellaris Fabricius, 1781: 487, sex – ? (type locality: Siberia).

Current status. Valid, as *Thyreus scutellaris* (Fabricius, 1781) [Liefertinck, 1968].

Distribution. Russia: Amurskaya Prov., Primorskiy Terr., Zabaikalskiy Terr.; North-Eastern China, Middle Asia, Europe, North Africa [Proshchalykin, 2012].

Paidia melectoides Radoszkowski, 1872

Paidia melectoides Radoszkowski 1872: 16, ♀, ♂ (syntypes: Kyakhta [Zabaikalskiy Terr.], Grenada [Spain], Algeria [IZK]).

Current status. The status of this species is discussed in separate paper [Proshchalykin, Lelej, in litt.].

Phiarus angarensis Cockerell, 1928

Phiarus angarensis Cockerell, 1928: 345, ♂ (holotype: ♂, «Ust Balei, on the Angara River, Siberia» [Irkutsk Prov.: Ust'-Balei], July 1927, leg. T. Cockerell).

Current status. A junior synonym of *Ammobatoides abdominalis* (Eversmann 1852) [Schwarz et al., 1996: 168].

Distribution. Russia: Zabaikalskiy Terr., Irkutsk Prov., Krasnoyarsk Terr., Khakassia, Kemerovo Prov., Novosibirsk Prov., European part; China (Xinjiang), Kazakhstan, Middle Asia, Caucasus, Europe, North Africa [Proshchalykin, Lelej, in litt.].

Apinae

Anthophora aestivalis baicalensis Hedicke, 1929

Anthophora aestivalis baicalensis Hedicke, 1929: 70, ♂ (holotype – ♂, Turan [Buryatia, Irkut River]).

Current status. Valid, as *Anthophora retusa baicalensis* Hedicke, 1929 [Hedicke, 1930; Davydova, Pesenko, 2002].

Distribution. Russia: Amurskaya Prov., Buryatia; Northern China, Middle Asia [Davydova, Pesenko, 2002].

Anthophora altaica Radoszkowski, 1882

Anthophora altaica Radoszkowski, 1882: 75–76, ♀ (holotype: ♀, Altai).

Current status. Valid [Brooks, 1988].

Distribution. Russia: Altai; China (Gansu, Inner Mongolia) [Wu, 2000].

Anthophora arctica Morawitz, 1883

Anthophora arctica Morawitz, 1883: 33, ♀ (holotype: ♀, Olenok River valley [Yakutia] [ZISP]).

Current status. Valid [Brooks, 1988].

Distribution. Russia: Amurskaya Prov., Yakutia, Zabaikalskiy Terr.; North-Eastern China, Mongolia, Middle Asia [Proshchalykin, 2012].

Anthophora hanseni Morawitz, 1883

Anthophora hanseni Morawitz, 1883: 35, ♂ (holotype: ♂, Irkutsk [Irkutsk Prov.: Irkutsk] [ZISP]).

Current status. Valid [Brooks, 1988].

Distribution. Russia: Irkutsk Prov. [Ascher, Pickering, 2013].

Crocisa altaica Radoszkowski, 1893

Crocisa altaica Radoszkowski, 1893: 175, ♀ (holotype: ♀, Minusinsk [Krasnoyarsk Terr.] [MNB]).

Current status. Valid, as *Thyreus altaicus* (Radoszkowski, 1893) [Liefertinck, 1968].

Distribution. Russia: Primorskiy Terr., Zabaikalskiy Terr., Buryatia, Krasnoyarsk Terr.; North-Eastern China, Mongolia, Middle Asia [Proshchalykin, 2012].

Crocisa biseriata Morawitz, 1888

Crocisa biseriata Morawitz, 1888: 252–253, ♀, (holotype: ♀, «Sibiria, Osnatschennaja» [Krasnoyarsk Terr.: Minusinsk distr.] [ZISP]).

Current status. Valid, as *Thyreus biseriatus* (Morawitz, 1888) [Liefertinck, 1968].

Distribution. Russia: Krasnoyarsk Terr. [Liefertinck, 1968].

Crocisa sibirica Radoszkowski, 1893

Crocisa sibirica Radoszkowski, 1893: 174–175, ♀ (holotype: ♀, Minusinsk [Krasnoyarsk Terr.] [MNB]).

Current status. Valid, as *Thyreomelecta sibirica* (Radoszkowski, 1893) [Rightmyer, Engel, 2003].

Distribution. Russia: Magadan Prov., Amurskaya Prov., Yakutia, Zabaikalskiy Terr., Buryatia, Irkutsk Prov., Krasnoyarsk Terr.; Northern China [Proshchalykin, 2012].

Melecta sibirica Radoszkowski, 1891

Melecta sibirica Radoszkowski, 1891: 246, ♀ (syntypes: Irkutsk [Irkutsk Prov.: Irkutsk]).

Current status. Valid [Ascher, Pickering, 2013].

Distribution. Russia: Irkutsk Prov.; Turkmenistan, Tajikistan [Ascher, Pickering, 2013].

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