

## Additions and corrections to the catalogue of bees (Hymenoptera: Anthophila) for the Russian Fennoscandia

### Дополнения и исправления к каталогу пчел (Hymenoptera: Anthophila) для Российской Фенноскандии

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КЛЮЧЕВЫЕ СЛОВА: список видов, Apiformes, каталог, пропущенные данные, новые указания.

**ABSTRACT.** A list of bee species not recorded in the recently published Catalogue of Hymenoptera of Russia for the European North and North-West of Russia is given. In addition to species previously reported in various publications, the present list also includes data from the digitized collections of the Zoological Museum of the University of Helsinki and data from the GBIF web portal for this region. Information on new records of bees, mainly from Karelia, has also been published. A total of 76 species have been added to the Catalogue of bees of the European North of Russia: 14 species of Colletidae, 19 species of Andrenidae, eight species of Halictidae, four species of Melittidae, 28 species of Megachilidae, and three species of Apidae. 74 species were omitted from the Catalogue and two species were added for the region based on original data from Karelia. 46 species have been added to the list of species recorded for the North-West (NW): four species of Colletidae, one species of Andrenidae, one species of Halictidae, 38 species of Megachilidae and two species of Apidae. *Hylaeus pfankuchi* (Alfken, 1919) is newly recorded for the European part of Russia and *H. rinki* (Gorski, 1852) and *Osmia bicornis* (Linnaeus, 1758) are newly recorded for Karelia.

**РЕЗЮМЕ.** В статье представлен список видов пчел, не указанных для Европейского Севера и Северо-Запада России в недавно опубликованном Каталоге перепончатокрылых насекомых России. Помимо видов, приведенных ранее в различных печатных изданиях в список также включены данные оцифрованных коллекций Зоологического музея Хельсинкского университета и данные с интернет-портала GBIF для этого региона. Приводится также информация о новых находках пчел, сделанных в основном на территории Карелии. Всего Каталог пчел для Европейского Севера

России (N) пополнен 76 видами: 14 видами Colletidae, 19 видами Andrenidae, 8 видами Halictidae, 4 видами Melittidae, 28 видами Megachilidae и 3 видами Apidae. Из них 74 вида были пропущены в Каталоге, а 2 вида приводятся впервые для региона оригинальным данным из Карелии. В список видов, указанных для Северо-Запада (NW) добавлено 46 пропущенных видов: 4 вида Colletidae, 1 вид Andrenidae, 1 вид Halictidae, 38 видов Megachilidae и 2 вида Apidae. *Hylaeus pfankuchi* (Alfken, 1919) впервые указывается для фауны европейской части России, *H. rinki* (Gorski, 1852) и *Osmia bicornis* (Linnaeus, 1758) для фауны Карелии.

### Introduction

This is the second part of additions and corrections to the Annotated Catalogue of the Hymenoptera of Russia [Belokobylskij, Lelej, 2017] (hereinafter referred to as the Catalogue) aimed to fill the blanks concerning distribution of Hymenoptera species in the European North. The first part dealt with Symphyta [Humala, 2024], while this one is devoted to bees. The present article includes a number of records of bee species from the Russian Fennoscandia (N and NW), mainly from the Republic of Karelia and northern parts of Leningrad Area. Some recent nomenclatural and taxonomic changes not reflected in the Catalogue are also taken into account here.

The Zoological Museum of the Helsinki University (LUOMUS), whose collections contain numerous materials from the territory of present-day Karelia, Leningrad and Murmansk areas collected by Finnish entomologists in the 19–20th centuries has been working extensively to digitize its collections. Most of these materials have been taxonomically treated, digitized and uploaded to the FinBIF portal (laji.fi) — the museum website that provides open

access to data repository for researchers, government and the public. Some of these data have never been published, and a new body of previously unpublished information has only recently become available.

## Material and methods

Here is a list of bee species of the European North and North-West of Russia (N and NW respectively) that were not reported for these territories in the Catalogue [2017]. Most of these species were added as a result of treatment of various publications, mainly by Finnish authors [Westerlund, 1893; Niemelä, 1936; Elfving, 1968, etc.] as well as electronic resources (LAJI, GBIF), containing also recent finds. Some doubtful records or notes of species with unclear synonymy were not included. The original material was collected in Karelia, with minor additions from Leningrad, Murmansk and Arkhangelsk Areas by netting, light-weight Malaise traps (MT) and yellow pan traps (YPT). If it is not mentioned otherwise, the material for the present study was collected by the author, A.E. Humala and is stored in the collections of the Forest Research Institute, KarRC RAS (Petrozavodsk).

All taxa are given according to the recent Annotated Catalogue of Apiformes of Russia [2017]; species are listed in alphabetic order. The 'DISTRIBUTION' section lists available finds from the European North and North-West of Russia, with the notes of biogeographic provinces of East Fennoscandia according to Heikinheimo & Raatikainen [1971] and references. Modern Russian names of localities are noted in square brackets.

Another abbreviations used in the text: NP — National park; NR — Nature Reserve; Is. — Island; L. — Lake; R. — River; surr. — surroundings.

## List of species

Species missing from the Catalogue [2017] for region N are marked with an asterisk (\*), species missing for region NW are marked with a hash (#), and species reported for the first time for N are marked with a \$.

### Superfamily APOIDEA Section APIFORMES FAMILY COLLETIDAE Subfamily COLLETINAE

#### \**Colletes cunicularius* (Linnaeus, 1761)

MATERIAL. **Karelia**, *Kon*: Sopokha, 28.05.1992, 1♀ (Polevoi); Gomsel'ga, 7.05.2004, 1♂.

DISTRIBUTION. **Karelia**, *Kl*: Sortavala, Impilahti, Salmi; *Kol*: Petrozavodsk, Vedlozero, Gorka; *Kon*: Karhumäki [Medvezh'egorsk], Kivach NR; **Arkhangelsk Area**, Severodvinsk suburbs [Westerlund, 1893; Humala, 1997; FinBIF, 2024].

#### \**Colletes daviesanus* Smith, 1846

MATERIAL. **Karelia**, *Kon*: Konchezero, 4.07.2012, 3♀♀♀; *Kton*: 5 km S Shal'sky, Cherny Cape 7.07.2018, 1♂, 8.07.2019, 1♀ 2♂.

DISTRIBUTION. **Karelia**, *Kl*: Hiitola, Lumivaara, Sortavala, Impilahti, Valamo [Valaam] [Westerlund, 1893; Elfving, 1968; FinBIF, 2024].

#### \*#*Colletes similis* Schenck, 1853

DISTRIBUTION. **Karelia**, *Kl*: Hiitola; **Leningrad Area**, *Ik*: Muolaa [Pravdino], Valkjärvi [Michurinskoe], Terijoki [Zelenogorsk] [Elfving, 1968; FinBIF, 2024].

## Subfamily HYLAEINAE

#### \**Hylaeus (Dentigera) brevicornis* Nylander, 1852

MATERIAL. **Karelia**, *Kol*: Lososinnoe 4 km NE, 12.07.2012, 1♀, *Kon*: Gomsel'ga, YPT, 4–6.07.2012, 1♂, Konchezero, YPT, 4–6.07.2012, 2♂♂, Kizhsky Reserve, Radkol'e Is., 30.07.2018, 1♂.

DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki, Kirjavaltahti; **Arkhangelsk Area**, Vaga R. [Elfving, 1968; Humala, 2006; FinBIF, 2024].

#### \**Hylaeus (Hylaeus) annulatus* (Linnaeus, 1758)

MATERIAL. **Karelia**, *Kl*: Khyumpyulya, meadow, 5.07.2010, 1♀, *Kol*: Kindasovo, 27.07.1976, 1♀ (Volkova), Lososinnoe 4 km NE, 9.07.2012, 2♂♂, Petrozavodsk, 18.07.1995, 1♀, 8.07.1997, 1♀, 10.07.2020, 1♂, *Kon*: Pin'guba, 1.07.1997, 1♀ (Polevoi), 6.07.2011, 1♀ (Polevoi), YPT, 29.06–3.07.2011, 1♀ (Polevoi), 17.06.2020, 1♀ (Polevoi), 6.08.2022, 1♀ (Polevoi), Kizhsky Reserve, Kizhi Is. 20.06.1994, 1♀, *Kton*: Besov Nos, Kladovets Cape, 2.07.2018, 1♀, YPT, 30.06–6.07.2018, 2♂♂; *Kpoc*: Russkiy Kuzov Is., 19.07.2001, 1♀ 2♂♂, *Kk*: Kartesh, Elenin Is., 28.07.1996, 1♂, Gridino, 4.08.2007, 2♀♀♀; **Murmansk Area**, *Lim*: Laplandsky NR, MT, 24.07–2.08.2013, 1♂ 1♀, Chunozero, 30.07.2013, 1♀, YPT, 24.07–2.08.2013, 1♀; **Arkhangelsk Area**, *Kton*: Vodlozerskiy NP, mouth of Vyzhiga R., 3.08.2014, 1♀.

DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki, Sortavala, Valamo [Valaam], Ruskeala, Suistamo, Impilahti, Salmi, *Kol*: Pryazha, *Kon*: Kizhi Is., Kumsjärvi [Kumsa], Kosmozero, Kuzaranda; *Kpoc*: Vuonninen [Voynitsa], *Ks*: Paanajärvi; **Murmansk Area**, *Ks*: Salla, Vuorikylä; *Lim*: Kandalaksha; **Arkhangelsk Area**, Arkhangelsk, Krasnoflotsky Is. [Westerlund, 1893; Elfving, 1968; Jakovlev et al., 2014; FinBIF, 2024].

#### \*#*Hylaeus (Hylaeus) cardioscapus* Cockerell, 1924

MATERIAL. **Karelia**, *Kl*: Puikkola, 8.07.2005, 1♂ (Polevoi), Matkasselka, 14.07.2023, 2♂♂, *Kol*: Sheltozero, 13.07.2004, 2♂♂, Besovets surr., 21.06.2008, 1♂, Lososinnoe 4 km NE, 9.07.2012, 1♀, *Kon*: Konchezero, 24.08.2011, 1♀ (Polevoi), Shun'ga, 22.08.2012, 1♀, Nizhnee Myagrozzero, YPT, 20–24.07.2012, 1♀, Gomsel'ga 2 km E, 5.07.2012, 1♂, Guba Svyatukha, 23.08.2012, 1♀, Kainos Is., 3.07.2004, 1♂, Kizhsky Reserve, Kizhi Is., 20.06.1994, 1♂, Radkol'e Is., 25.06.2003, 1♂, 5.07.2019, 2♀♀♀, Eglöv Is., 26.06.2014, 4♂♂, Ernitsky Is., 29.07.2018, 1♀, Orozh-Yama Is., 5.07.2019, 1♂, 17.08.2019, 1♀, Pavlukhin Is., 2.07.2019, 1♀, Konda, 14.08.2019, 1♀, Kurgenitsy 1 km SW, 25.06.2024, 2♂♂, *Kton*: Besov Nos, Kladovets Cape, YPT, 30.06–6.07.2018, 1♀, *Kpoc*: Maksim'yarvi L., YPT, 23–27.07.2022, 1♀ (Polevoi); **Leningrad Area**, *Kol*: Gimreka, 22.07.2004, 1♂.

DISTRIBUTION. **Karelia**, *Kl*: Sortavala, Impilahti, Hiitola, Kurkijoki, Lumivaara, Lahdenpohja, Salmi, Suistamo, Jänisjärvi, *Kol*: Soutjärvi [Sheltozero]; **Leningrad Area**, *Ka*: Säkijärvi [Kondrat'ev], Tytärsaari [Bol'shoi Tyuters], *Kl*: Käkisalmi [Priozersk], *Ik*: Rautu [Sosnovo], Metsäpirtti [Zaporozhskoe], Ollila [Solnechnoe], Sakkola [Gromovo], Kivennapa [Pervomayskoe], Terijoki [Zelenogorsk], Pyhäjärvi [Otradnoe], Kuolemajärvi [Pionerskoe], *Kol*: Kovkenitsy, Vaasen [Vazhiny]; **Arkhangelsk Area**, Vaga R. [Elfving, 1968; FinBIF, 2024].

#### \**Hylaeus (Hylaeus) communis* Nylander, 1852

MATERIAL. **Karelia**, *Kol*: Petrozavodsk, 13.07.1995, 2♂♂, 18.07.1995, 1♀, 7.07.2002, 1♀, *Kon*: Kizhsky Reserve, 2 km NE Kurgenitsy, 19.07.2000, 2♀♀♀ 8♂♂, Kizhi Is., 13–15.07.2005, 1♀ 2♂♂, Bukol'nikov Is., 30.07.2018, 1♀.

DISTRIBUTION. **Karelia**, *Kl*: Lahdenpohja, Kurkijoki, Sortavala, Kirjavaltahti, Impilahti, Salmi, *Kol*: Pryazha, *Kon*: Kizhi Is., Kumsjärvi [Kumsa] [Elfving, 1968; Jakovlev *et al.*, 2014; FinBIF, 2024].

\**Hylaesus (Hylaesus) gracilicornis* (Morawitz, 1867)

MATERIAL. **Karelia**, *Kl*: Matkaselka, Otrakkala, 12.07.2023, 1♂, *Kol*: Sheltozero surr., 13.07.2004, 1♂.

DISTRIBUTION. **Karelia**, *Kl*: Sortavala [Elfving, 1968; FinBIF, 2024].

\**Hylaesus (Hylaesus) nigritus* (Fabricius, 1798)

MATERIAL. **Karelia**, *Kl*: Matkaselka, Otrakkala 12.07.2023, 1♂, Matkaselka, 14.07.2023, 4♂♂, *Kol*: Sheltozero, 13.07.2004, 1♂; *Kon*: Kizhsky Reserve, Vorob'i, 20.08.2008, 1♂, Orozh-Yama Is., 5.07.2019, 1♂, Konda, 14.08.2019, 1♀, Kurgenitsy 1 km SW, 25.06.2024, 2♀♀ 3♂♂.

DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki, Lumivaara, Lahdenpohja, Salmi; *Kon*: Kizhsky Reserve [Jakovlev *et al.*, 2014; FinBIF, 2024].

\*#*Hylaesus (Lambdopsis) dilatatus* (Kirby, 1802)

= *Hylaesus annularis* (Kirby, 1802)

DISTRIBUTION. **Karelia**, *Kl*: Lahdenpohja, Impilahti; **Leningrad Area**, St. Petersburg [Westerlund, 1893; Elfving, 1968; FinBIF, 2024].

\$*Hylaesus (Lambdopsis) pfankuchi* (Alfken, 1919)

MATERIAL. **Karelia**, *Kl*: Salmi, 29.07.1994, 1♂, *Kol*: Lososinnoe 5 km NE, YPT, 9–12.07.2012, 2♀♀, *Kon*: Tipinitsy meadow, 4.07.2004, 1♂.

DISTRIBUTION. South Karelia.

REMARK. First record for the European part of Russia.

\$*Hylaesus (Lambdopsis) rinki* (Gorski, 1852)

MATERIAL. **Karelia**, *Kon*: Kizhsky Reserve, Oyatevshina, 19.07.2011, 1♀, Pod'elniki, 21.07.2011, 1♀, Kurgenitsy 1 km SW, 25.06.2024, 2♂♂; Gomsel'ga 2 km E, YPT, 5–6.07.2012, 3♂♂.

DISTRIBUTION. **Leningrad Area**, St. Petersburg [FinBIF, 2024].

REMARK. First record for Karelia.

\**Hylaesus (Prosopis) confusus* Nylander, 1852

MATERIAL. **Karelia**, *Kl*: Niva, MT, 7–8.07.2005, 1♀ (Polevoi), Impilahti, 3 km N, 16.08.2008, 1♀, Valaam, 28.07.2009, 30.07.2009, 2♀♀ 1♂ (Polevoi), Matkaselka, 13.07.2023, 1♀, *Kol*: Zayach'ya Guba, 5 km E Kvartsitny, 13.07.2004, 1♀, Mayachino, 25.06.2012, 1♂, Lososinnoe 5 km NE, YPT, 9–12.07.2012, 4♀♀ 2♂♂, *Kon*: Kivach NR, 17.07.1992, 1♀, 8.06.2011, 1♂, Belaya Gora, 16.07.2002, 1♂, Gomsel'ga 2 km E, YPT, 4–6.07.2012, 4♂♂, 3–7.06.2013, 1♂, Konchezero, YPT, 4–6.07.2012, 3♀♀ 1♂, Nizhnee Myagrozzero, YPT, 20–24.07.2012, 5♀♀, Nigozero, 27.07.2012, 1♀ (Kainelainen), Vegaruksy, YPT, 25–29.06.2013, 1♂, Kizhsky Reserve, 2 km NE Kurgenitsy, 19.07.2000, 2♀, Vorob'i, 20.08.2008, 1♂, Pod'elniki, YPT, 18–22.07.2011, 2♀♀, Eglov Is., 26.06.2014, 1♂, Lelikovo, 28.07.2018, 1♀, *Kton*: Besov Nos, Kladovets Cape, YPT, 30.06–6.07.2018, 2♀♀ 1♂; Chernyj Cape, 8.07.2019, 1♀ 1♂.

DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki, Pyalkjärvi, Jänisjärvi, Suistamo, Valamo [Valaam], Sortavala, Kirjavaltahti, Impilahti, Salmi, *Kol*: Aunus [Olonets], Pryazha, *Kon*: Velikaya Niva, Kumsjärvi [Kumsa], Svyatnavolok, Velikaya Guba, Tolvaja [Tolvuya], Kizhsky Reserve, Garnitsy; **Arkhangelsk Area**, Vaga R. [Westerlund, 1893; FinBIF, 2024].

\*#*Hylaesus (Prosopis) incongruus* Förster, 1871

*Hylaesus gibbus* Saunders, 1850 (Misapplied name)

MATERIAL. **Karelia**, *Kol*: Lososinnoe 5 km NE, YPT, 9–12.07.2012, 1♀, *Kon*: Konchezero, YPT, 4–6.07.2012, 2♂♂, Kizhsky Reserve, Rogachev Is., 28.06.2014, 1♀.

DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki, Sortavala, Salmi; *Kon*: Girvas, Kizhsky Reserve; **Leningrad Area**, *Ka*: Säkijärvi [Kondrat'ev], Lavansaari [Moschny Is.], Seiskari [Seskar Is.], Tytärsaari [Bol'shoi Tyuters], *Ik*: Valkjärvi [Michurinskoe], Muolaa [Pravdino], Terijoki [Zelenogorsk], Pyhäjärvi [Otradnoe], Sakkola [Gromovo], *Kl*: Kexholm [Priozersk] [Westerlund, 1893; Jakovlev *et al.*, 2014; FinBIF, 2024].

FAMILY ANDRENIDAE

Subfamily ANDRENINAE

\**Andrena (Andrena) fucata* Smith, 1847

MATERIAL. **Karelia**, *Kol*: Petrozavodsk, 10.07.2017, 1♂, *Kon*: Konchezero, 2 km N, 4.07.2012, 1♀, Kizhsky Reserve, Eglov Is., 26.06.2014, 3♀♀, Gryznavolok Peninsula, 4.07.2019, 1♂, Radkol'e Is., 5.07.2019, 1♀, Veshkelitsa, Ar'koila 1.5 km NE, 1♂, *Kpoc*: Russkiy Kuzov Is., YPT, 19.07.2001, 1♀.

DISTRIBUTION. **Karelia**, *Kl*: Hiitola, Jaakkima, Kurkijoki, Sortavala, Valamo [Valaam], Kirjavaltahti, Ruskeala, Impilahti, Salmi, *Kol*: Kuujärvi [Gizhino], Aunus [Olonets], Prääzä [Pryazha], Soutjärvi [Sheltozero], *Kon*: Semsjärvi [Semchezero], Velikaja Niva, Jallahti [Yalguba], Kumsjärvi [Kumsa], Munjärvi [Munozero], *Kpoc*: Uhtua [Kalevala], Kostomuksha NR, Akonlahti; **Arkhangelsk area**, Arkhangelsk [Westerlund, 1893; FinBIF, 2024].

\**Andrena (Charitandrena) hattorfiana* (Fabricius, 1775)

DISTRIBUTION. **Karelia**, *Kl*: Sortavala, Kirjavaltahti, Impilahti, Salmi, *Kol*: Kuytezha [Westerlund, 1893; FinBIF, 2024].

\**Andrena (Cnemidandrena) denticulata* (Kirby, 1802)

DISTRIBUTION. **Karelia**, *Kl*: Hiitola, Sortavala, Jänisjärvi, Pälkjärvi, Salmi, *Kol*: Kuujärvi [Gizhino], *Kon*: Porajärvi [Porozero] [Elfving, 1968; FinBIF, 2024].

\**Andrena (Cnemidandrena) fuscipes* (Kirby, 1802)

DISTRIBUTION. **Karelia**, *Kl*: Sortavala, Kirjavaltahti, Impilahti, *Kol*: Kaskesnavolok [Elfving, 1968; FinBIF, 2024].

\**Andrena (Euandrena) fulvida* Schenck, 1853

MATERIAL. **Karelia**, *Kon*: Gomsel'ga 2 km E, 5.07.2012, 1♀. DISTRIBUTION. **Karelia**, *Kl*: Hiitola, Sortavala, Kirjavaltahti, Valamo [Valaam], Impilahti, Suistamo [Elfving, 1968; FinBIF, 2024].

\**Andrena (Holandrena) labialis* (Kirby, 1802)

MATERIAL. **Leningrad Area**, *Kol*: Uslanka, 3.07.2008, 1♂. DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki [Elfving, 1968; FinBIF, 2024].

REMARK. Regionally Extinct in Finland.

\**Andrena (Leucandrena) argentata* Smith, 1844

DISTRIBUTION. **Karelia**, *Kl*: Impilahti, Salmi, *Kol*: Vidlitsa; **Arkhangelsk Area**, Vaga R. [Elfving, 1968; FinBIF, 2024].

\**Andrena (Leucandrena) barbibris* (Kirby, 1802)

MATERIAL. **Karelia**, *Kon*: Rapsudozero L., YPT, 22–24.06.2018, 1♀, *Kton*: Besov Nos, Kladovets Cape, 30.06.2018, 1♀.

DISTRIBUTION. **Karelia**, *Kl*: Jaakkima, Ruskeala, Sortavala, Valamo [Valaam], Impilahti, Salmi, *Kol*: Prääzä [Pryazha], Soutjärvi [Sheltozero], *Kon*: Jallahti [Yalguba], *Ks*: Paanajärvi; **Murmansk Area**, *Lm*: Voron'ya R.; **Arkhangelsk Area**, Nenets Autonomous District, Naryan-Mar [Westerlund, 1893, FinBIF, 2024].

\**Andrena (Melandrena) nitida* (Müller, 1776)

DISTRIBUTION. **Karelia**, *Kl*: Sortavala, Kirjavalahi, *Kol*: Teru [Pryazha], Nurmoila [Valkeila, 1954; Elfving, 1968; FinBIF, 2024].

\**Andrena (Melandrena) vaga* Panzer, 1799

DISTRIBUTION. **Karelia**, *Kl*: Sortavala, Kirjavalahi, Pälkjärvi, Impilahti, Salmi, *Kol*: Vedlozero [Westerlund, 1893, FinBIF, 2024].

\**Andrena (Micrandrena) minutuloides* Perkins, 1914

DISTRIBUTION. **Karelia**, *Kl*: Jaakkima, Kurkijoki, Sortavala, Kirjavalahi, Impilahti [Elfving, 1968; FinBIF, 2024].

\**Andrena (Micrandrena) nanula* Nylander, 1848

DISTRIBUTION. **Karelia**, *Kl*: Sortavala, Kirjavalahi, Impilahti [Elfving, 1968].

\**Andrena (Micrandrena) semilaevis* Pérez, 1903

MATERIAL. **Karelia**, *Kon*: Kizhsky Reserve, Eglöv Is., 26.06.2014, 1♀, *Kp*: Ust'-Reka, 23.06.2009, 1♀ 1♂.

DISTRIBUTION. **Karelia**, *Kl*: Hiitola, Jaakkima, Kurkijoki, Suistamo, Sortavala, Kirjavalahi, Valamo [Valaam], *Kol*: Petrozavodsk, *Kon*: Velikaya Niva [Elfving, 1968; FinBIF, 2024].

\**Andrena (Oreomelissa) coitana* (Kirby, 1802)

MATERIAL. **Karelia**, *Kl*: Matkaselka, Otrakkala, 12.07.2023, 1♀, Matkaselka, Sahankoski, 14.07.2023, 1♂, *Kol*: Kaskesruchey, 19.07.2004, 1♂.

DISTRIBUTION. **Karelia**, *Kl*: Sortavala, Kirjavalahi, Ruskeala, Impilahti, Kurkijoki, Jänisjärvi, *Kol*: Aunus [Olonets] [Elfving, 1968; FinBIF, 2024].

\**Andrena (Poecilandrena) labiata* Fabricius, 1781

DISTRIBUTION. **Karelia**, *Kol*: Vedlozero [FinBIF, 2024].

\**Andrena (Taeniandrena) intermedia* Thomson, 1870

MATERIAL. **Karelia**, *Kl*: Puikkola, 8 km SE, 8.07.2005, 1♂ (Polevoi).

DISTRIBUTION. **Karelia**, *Kl*: Jaakkima, Hiitola, Kurkijoki, Suistamo, Sortavala, Valamo [Valaam], Kirjavalahi, Impilahti, Salmi; *Kon*: Kosmozero, Girvas; **Murmansk Area**, *Ks*: Salla, Vuorikylä; **Arkhangelsk Area**, Solovetsky Is. [Elfving, 1968; FinBIF, 2024].

#*Andrena (Taeniandrena) russula* Lepeletier de Saint-Fargeau, 1841

= *Andrena similis* Smith, 1849

DISTRIBUTION. **Leningrad Area**, *Ik*: Terijoki [Zelenogorsk], Uusikirkko [Polyany], Muolaa [Pravdino] [Elfving, 1968; Söderman, Leinonen, 2003; FinBIF, 2024].

REMARK. Reported earlier for Crimea as *A. similis* [Catalogue, 2017].

\**Andrena (Taeniandrena) wilkella* (Kirby, 1802)

DISTRIBUTION. **Karelia**, *Kl*: Lahdenpohja [FinBIF, 2024].

\**Andrena (Tarsandrena) tarsata* Nylander, 1848

MATERIAL. **Karelia**, *Kl*: Salmi, Karkku, 7.07.1992, 1♀, *Kon*: Konchezero, 4.07.2012, 1♂.

DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki, Sortavala, Kirjavalahi, Jänisjärvi, Suistamo, Impilahti, Salmi, *Kon*: Velikaya Niva, Shun'ga [Elfving, 1968; FinBIF, 2024].

Subfamily PANURGINAE

*Panurginus romani* Aurivillius, 1914

MATERIAL. **Karelia**, *Kon*: Gomsel'ga, 5.07.2012, 2♂♂.

DISTRIBUTION. Reported for N according to the material from Komi Republic [Romankova, Astafurova, 2011].

REMARK. New for Karelia.

\**Panurgus calcaratus* (Scopoli, 1763)

MATERIAL. **Karelia**, *Kl*: Sukopohja, 9 km NE, 7.07.2005, 2♂♂, Impilahti, 3km N, 16.08.2008, 1♂, Matkaselka, 13.07.2023, 1♀, Matkaselka, Sahankoski, 14.07.2023, 1♂.

DISTRIBUTION. **Karelia**, *Kl*: Kirjavalahi, Impilahti, Salmi, *Kol*: Vidlitsa, Pryazha, Gizhino; **Leningrad Area**, *Ka*: Viipuri [Vyborg], Säkkijärvi [Kondrat'ev], *Ik*: Rautu [Sosnovo], Terijoki [Zelenogorsk], Kanneljärvi [Pobeda], Muolaa [Pravdino], Valkjärvi [Michurinskoe], *Kol*: Vaaseni [Vazhiny] [FinBIF, 2024].

FAMILY HALICTIDAE

Subfamily HALICTINAE

\**Halictus (Halictus) quadricinctus* (Fabricius, 1776)

DISTRIBUTION. **Karelia**, *Kol*: Säntämä [Syandebe], Soutjärvi [Sheltozero] [FinBIF, 2024].

\**Halictus (Seladonia) leucaheneus leucaheneus*

Ebmer, 1972

DISTRIBUTION. **Karelia**, *Kl*: Impilahti [FinBIF, 2024].

\**Halictus (Tythhalictus) maculatus maculatus* Smith, 1848

DISTRIBUTION. **Karelia**, *Kol*: Vedlozero, Kuitezha [FinBIF, 2024].

\**Sphecodes albilabris* (Fabricius, 1793)

MATERIAL. **Karelia**, *Kol*: Vidlitsa, mouth Tuloksa R. 4.09.2018, 1♀; Sosnovyi Bor, 12.09.2022, 1♀ 2♂♂.

DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki; **Leningrad Area**, *Ik*: Komarovo; Sestroretsk; *Kl*: Käkisalmi [Priozersk], Kuznechnoe; **Arkhangelsk Area**, Vaga R. [Astafurova, Proshchalykin, 2016; FinBIF, 2024; GBIF, 2024a].

REMARK. The species was missed in the Catalogue [2017] for NW, though it was reported earlier from the territory of Leningrad Area [Elfving, 1968; Astafurova, Proshchalykin, 2016].

\**Sphecodes longulus* Hagens, 1882

DISTRIBUTION. **Arkhangelsk Area**, Vaga R. [FinBIF, 2024].

\**Sphecodes miniatus* Hagens, 1882

DISTRIBUTION. **Karelia**, *Kol*: Suurmäki [Bol'shie Gory]; **Arkhangelsk Area**, Vaga R. [FinBIF, 2024].

REMARK. Regionally extinct in Finland.

\**Sphecodes monilicornis* (Kirby, 1802)

DISTRIBUTION. **Karelia**, *Kl*: Sortavala, *Kol*: Vedlozero [Elfving, 1968; FinBIF, 2024].

## Subfamily ROPHITINAE

*\*Dufourea (Halictoides) dentiventris* (Nylander, 1841)

DISTRIBUTION. **Karelia**, *Kl*: Hiitola, Sortavala, Valamo [Valaam], Jänisjärvi, *Kol*: Petrozavodsk, *Kon*: Tolvaja [Tolvuya] [Elfving, 1968; FinBIF, 2024].

## FAMILY MELITTIDAE

*\*Macropis (Macropis) europaea* Warncke, 1973

MATERIAL. **Karelia**, *Kl*: Salmi, 29.07.1994, 1♂, Matkaselka 13.07.2023, 1♀, *Kon*: Vegoruksy, YPT, 25–29.06.2013, 1♀. DISTRIBUTION. **Karelia**, *Kl*: Impilahti, Salmi [Westerlund, 1893; Elfving, 1968].

*\*Macropis (Macropis) fulvipes* (Fabricius, 1804)

MATERIAL. **Karelia**, *Kl*: Harlu, 7.07.1992, 1♂, Harlu, Rautalahti, 14.08.2008, 1♀, *Kon*: Myagrozzero, 22.07.2012, 1♀ 1♂. DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki, Sortavala, Kirjalvalahti [Elfving, 1968; FinBIF, 2024].

*\*Melitta haemorrhoidalis* (Fabricius, 1775)

DISTRIBUTION. **Karelia**, *Kl*: Jaakkima, Hiitola, Jänisjärvi, Sortavala, Kirjalvalahti, Salmi, *Kol*: Aunus [Olonets], *Kon*: Velikaya Niva, Tolvaja [Tolvuya] [Elfving, 1968; FinBIF, 2024].

*\*Melitta leporina* (Panzer, 1799)

DISTRIBUTION. **Karelia**, *Kl*: Hiitola [FinBIF, 2024].

## FAMILY MEGACHILIDAE

## Subfamily MEGACHILINAE

*\*Chelostoma (Chelostoma) florissomne* (Linnaeus, 1758)

DISTRIBUTION. **Karelia**, *Kl*: Hiitola [Westerlund, 1893; FinBIF, 2024].

*\*Chelostoma (Foveosmia) campanularum* (Kirby, 1802)

MATERIAL. **Karelia**, *Kl*: Matkaselka, 12.07.2023, 1♂, 14.07.2023, 1♂, Hanki, 13.07.2023, 3♀♀ 3♂♂, *Kon*: Gomsel'ga, YPT, 4–6.07.2012, 3♂♂, 5.07.2012, 3♀♀ 6♂♂, Nigozero, 7.07.2012, 1♀ (Kainelainen), *Kton*: 5 km S Shal'sky, Cherny Cape, 7.07.2018, 1♂.

DISTRIBUTION. **Karelia**, *Kl*: Hiitola, Kurkijoki, Jänisjärvi, Suistamo, Sortavala, Kirjalvalahti, Valamo [Valaam], Impilahti, Salmi; **Leningrad Area**, *Ka*: Räisälä [Mel'nikovo], Säkijärvi [Kondrat'evo], *Kl*: Käkisalmi [Priozersk], *Ik*: Terijoki [Zelenogorsk], Sakkola [Gromovo], Uusikirkko [Polyany], Metsäpirtti [Zaporozhskoe] [FinBIF, 2024].

*#Chelostoma (Gyrodromella) rapunculi* (Lepelletier de Saint-Fargeau, 1841)

MATERIAL. **Karelia**, *Kl*: Matkaselka, Otrakkala, 12.07.2023, 1♂, Matkaselka, 14.07.2023, 1♀, *Kon*: Gomsel'ga, 5.07.2012, 1♀, Nigozero, 7.07.2012, 1♀ (Kainelainen), Kizhsky Reserve, Lelikovo, 26.06.2003, 1♂.

DISTRIBUTION. **Leningrad Area**, *Ka*: Viipuri [Vyborg], Säkijärvi [Kondrat'evo], Antrea [Kamennogorsk], Räisälä [Mel'nikovo], Johannes [Sovetsky], Tytärsaari [Bol'shoi Tyuters], Lavansaari [Moschny Is.], *Kl*: Käkisalmi [Priozersk], *Ik*: Terijoki [Zelenogorsk], Metsäpirtti [Zaporozhskoe], Valkjärvi [Michurinskoe], Muolaa [Pravdino], Kivennapa [Pervomay-

skoe], Kuolemajärvi [Pionerskoe], Pyhäjärvi [Otradnoe] [FinBIF, 2024].

*#Heriades (Heriades) truncorum* (Linnaeus, 1758)

DISTRIBUTION. **Leningrad Area**, *Ka*: Viipuri [Vyborg], Jääski [Lesogorsky], Säkijärvi [Kondrat'evo], *Ik*: Terijoki [Zelenogorsk], Pyhäjärvi [Otradnoe], Sakkola [Gromovo], Muolaa [Pravdino], Metsäpirtti [Zaporozhskoe], *Kl*: Käkisalmi [Priozersk] [FinBIF, 2024].

*\*Hoplitis (Alcidamea) claviventris* (Thomson, 1872)

MATERIAL. **Karelia**, *Kon*: Konchezzero, 4.07.2012, 1♂, Gomsel'ga, YPT, 4–6.07.2012, 1♂, Myagrozzero, 22.07.2012, 1♀, *Kpoc*: Russkiy Kuzov Is., 19.07.2001, 1♀ 2♂♂; **Arkhangelsk Area**, NP "Onezhskoe Pomor'e", Chemsensky Mayak, 31.07.2020, 1♂.

DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki, Sortavala, Kumuri, Salmi; *Kon*: Kumsjärvi [Kumsa]; **Leningrad Area**, *Kol*: Vaaseni [Vazhiny], *Ka*: Säkijärvi [Kondrat'evo], Koivisto [Primorsk], Lavansaari [Moschny Is.], Tytärsaari [Bol'shoi Tyuters], *Kl*: Käkisalmi [Priozersk], *Ik*: Terijoki [Zelenogorsk], Muolaa [Pravdino], Rautu [Sosnovo], Uusikirkko [Polyany], Valkjärvi [Michurinskoe] [Westerlund, 1893; FinBIF, 2024].

*#Hoplitis (Alcidamea) leucomelana* (Kirby, 1802)

DISTRIBUTION. **Leningrad Area**, St. Petersburg [FinBIF, 2024].

*#Hoplitis (Alcidamea) tuberculata* (Nylander, 1848)

MATERIAL. **Karelia**, *Kl*: Niva, MT, 7–8.07.2005, 1♀ (Polevoi), *Kon*: Gomsel'ga, 4.07.2012, 1♂.

DISTRIBUTION. **Leningrad Area**, *Ka*: Lavansaari [Moschny Is.], *Ik*: Sakkola [Gromovo], Muolaa [Pravdino]; St. Petersburg [FinBIF, 2024].

*\*Hoplitis (Formicapis) robusta* (Nylander, 1848)

= *Heriades trinacria* Morawitz, 1869

MATERIAL. **Karelia**, *Kon*: Tipinitsy, meadow, 4.07.2004, 1♂.

DISTRIBUTION. **Karelia**, *Kl*: Sortavala, Suistamo, Kirjalvalahti, Valamo [Valaam], Impilahti, Salmi; **Leningrad Area**, *Kl*: Käkisalmi [Priozersk], *Ik*: Rautu [Sosnovo], Metsäpirtti [Zaporozhskoe], Kanneljärvi [Pobeda] [Westerlund, 1893; FinBIF, 2024].

REMARK. The species has not been reported from the European part of Russia, although *Heriades trinacria* which is its junior synonym was described from Luga (Leningrad Area) [Morawitz, 1869].

*#Osmia (Helicosmia) caerulea* (Linnaeus, 1758)

DISTRIBUTION. **Leningrad Area**, *Ka*: Lavansaari [Moschny Is.] [FinBIF, 2024].

*\*Osmia (Helicosmia) leaiana* (Kirby, 1802)

DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki, Sortavala, Kirjalvalahti, Valamo [Valaam], Impilahti, Salmi; **Leningrad Area**, *Ka*: Viipuri [Vyborg], *Ik*: Valkjärvi [Michurinskoe] [Westerlund, 1893; FinBIF, 2024].

*#Osmia (Melanosmia) nigriventris* (Zetterstedt, 1838)

MATERIAL. **Karelia**, *Kon*: Kizhsky Reserve, Vorob'i, 17.06.1994, 1♀, *Kk*: Paanayarvi NP, Valkoyarvi, MT, 21–30.06.1998, 1♀ 1♂.

DISTRIBUTION. **Leningrad Area**, *Ik*: Uusikirkko [Polyany], *Kol*: Podporozh'e; St. Petersburg [FinBIF, 2024].

- \*#*Osmia (Melanosmia) parietina* Curtis, 1828  
 MATERIAL. **Karelia**, *Kpoc*: Tulos, MT, 18–20.07.1994, 1 ♀ (Polevoi), *Kk*: Gridino, 2 km N, 14.07.2007, 1 ♀.  
 DISTRIBUTION. **Karelia**, *Kl*: Ruskeala, Sortavala, Kirjavalahi, Impilahti, Salmi, *Ks*: Paanajärvi; **Leningrad Area**, *Ka*: Viipuri [Vyborg], Antrea [Kamennogorsk], Suursaari [Hogland], Seiskari [Seskar Is.], *Kl*: Käkisalmi [Priozersk], *Ik*: Terijoki [Zelenogorsk], Sakkola [Gromovo] [Westerlund, 1893; FinBIF, 2024].
- \*#*Osmia (Melanosmia) pilicornis* Smith, 1846  
 DISTRIBUTION. **Karelia**, *Kon*: Tiutia [Tivdia] [FinBIF, 2024].
- #*Osmia (Melanosmia) uncinata* Gerstäcker, 1869  
 MATERIAL. **Karelia**, *Kon*: Turastamozero, 21.07.2012, 1 ♀.  
 DISTRIBUTION. 2006. *Ik*: Pyhäjärvi [Otradnoe] [FinBIF, 2024].
- #*Osmia (Neosmia) bicolor* (Schrank, 1781)  
 DISTRIBUTION. **Leningrad Area**, *Kl*: Käkisalmi [Priozersk] [Paukkunen *et al.*, 2009; FinBIF, 2024].
- #*Osmia (Osmia) bicornis* (Linnaeus, 1758)  
 MATERIAL. **Karelia**, *Kl*: Mejeri, 5 km S, 13.06.2015, 2 ♀♀.  
 DISTRIBUTION. **Leningrad Area**, Gatchina, Siverskiy; St. Petersburg [FinBIF, 2024].  
 REMARK. Reported for N, first record for Karelia.
- \*#*Anthidiellum (Anthidiellum) strigatum* (Panzer, 1805)  
 MATERIAL. **Karelia**, *Kon*: Konchezero, 4.07.2012, 1 ♂, Gomsel'ga, 5.07.2012, 1 ♀, Kizhsky Reserve, Radkol'e Is., 30.07.2018, 1 ♀.  
 DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki, Sortavala, Kirjavalahi, Salmi; **Leningrad Area**, *Ka*: Viipuri [Vyborg], Lavansaari [Moschny Is.], *Ik*: Terijoki [Zelenogorsk], Sakkola [Gromovo] [Westerlund, 1893; FinBIF, 2024].
- #*Anthidium (Anthidium) florentinum* (Fabricius, 1775)  
 DISTRIBUTION. **Leningrad Area**, *Kl*: Kuznechnoe; St. Petersburg [GBIF, 2024b].
- \*#*Anthidium (Anthidium) manicatum* (Linnaeus, 1758)  
 MATERIAL. **Karelia**, *Kl*: Valaam, 30.07.2009, 1 ♀ (Polevoi), *Kon*: Pin'guba, 24.08.2008, 1 ♀ (Polevoi).  
 DISTRIBUTION. **Karelia**, *Kl*: Hiitola, Sortavala, Kirjavalahi, Impilahti; **Leningrad Area**, *Ka*: Viipuri [Vyborg], *Kl*: Käkisalmi [Priozersk], *Ik*: Metsäpirtti [Zaporozhskoe], Uusikirkko [Polyany], Muolaa [Pravdino] [Westerlund, 1893; FinBIF, 2024].
- \*#*Anthidium (Anthidium) punctatum* Latreille, 1809  
 MATERIAL. **Karelia**, *Kl*: Impilahti, 3 km N, 16.08.2008, 1 ♀, Kil'pola Is., 17.06.2011, 1 ♀.  
 DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki, Hiitola, Sortavala, Valamo [Valaam], Kirjavalahi, Impilahti, Salmi, *Kol*: Aunus [Olonets]; **Leningrad Area**, *Ka*: Viipuri [Vyborg], Koivisto [Primorsk], Säkijärvi [Kondrat'evo], Antrea [Kamennogorsk], Jääski [Lesogorsky], Tytärsaari [Bol'shoi Tyuters], *Kl*: Käkisalmi [Priozersk], *Ik*: Uusikirkko [Polyany], Terijoki [Zelenogorsk], Metsäpirtti [Zaporozhskoe], Sakkola [Gromovo], Muolaa [Pravdino]; **Arkhangelsk Area**, Vaga R. [Westerlund, 1893; FinBIF, 2024].
- \*#*Stelis (Protostelis) signata* (Latreille, 1809)  
 DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki [FinBIF, 2024].
- \*#*Stelis (Stelis) breviscula* (Nylander, 1848)  
 DISTRIBUTION. **Karelia**, *Kl*: Elisenvaara, Kurkijoki, Sortavala, Kirjavalahi [FinBIF, 2024].
- \*#*Stelis (Stelis) phaeoptera* (Kirby, 1802)  
 DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki, Lumivaara, Jänisjärvi, Sortavala, Kirjavalahi [FinBIF, 2024].
- \*#*Stelis (Stelis) punctulatissima* (Kirby, 1802)  
 DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki, Lumivaara, Lahdenpohja, Sortavala [FinBIF, 2024].
- \*#*Stelis (Pseudostelis) minima* Schenck, 1861  
 DISTRIBUTION. **Karelia**, *Kl*: Hiitola, Sortavala [FinBIF, 2024].
- \*#*Trachusa (Trachusa) byssina* (Panzer, 1798)  
 DISTRIBUTION. **Karelia**, *Kl*: Hiitola, Kurkijoki, Pälkjärvi, Sortavala, Valamo [Valaam], Impilahti, Salmi, *Kol*: Präazä [Pryazha]; **Leningrad Area**, *Kl*: Käkisalmi [Priozersk], *Ik*: Rautu [Sosnovo], Uusikirkko [Polyany], Metsäpirtti [Zaporozhskoe], Muolaa [Pravdino] [Westerlund, 1893; FinBIF, 2024].
- #*Aglaoapis tridentata* (Nylander, 1848)  
 DISTRIBUTION. **Leningrad Area**, *Ik*: Metsäpirtti [Zaporozhskoe], Ollila [Solnechnoe] [FinBIF, 2024].  
 REMARK. Regionally extinct in Finland.
- \*#*Coelioxys (Boreocoelioxys) alatus* Förster, 1853  
 DISTRIBUTION. **Karelia**, *Kl*: Salmi [Elfvig, 1968; Söderman, Leinonen, 2003; Paukkunen *et al.*, 2009; FinBIF, 2024].
- \*#*Coelioxys (Boreocoelioxys) mandibularis* Nylander, 1848  
 DISTRIBUTION. **Karelia**, *Kl*: Impilahti, Salmi, Suistamo, **Leningrad Area**, *Kol*: Vaaseni [Vazhiny], *Ka*: Viipuri [Vyborg], Suursaari [Hogland], *Kl*: Käkisalmi [Priozersk], *Ik*: Terijoki [Zelenogorsk], Sakkola [Gromovo], Metsäpirtti [Zaporozhskoe], Rautu [Sosnovo], Uusikirkko [Polyany], Pyhäjärvi [Otradnoe] [Westerlund, 1893; FinBIF, 2024].
- \*#*Coelioxys (Boreocoelioxys) rufescens* Lepelletier de Saint-Fargeau et Audinet-Serville, 1825  
 DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki, Lumivaara, Sortavala, Kirjavalahi, Salmi, *Kon*: Kumsjärvi [Kumsa], Porajärvi [Porosozero]; **Leningrad Area**, *Kol*: Vaaseni [Vazhiny], *Ka*: Viipuri [Vyborg], Antrea [Kamennogorsk], Säkijärvi [Kondrat'evo], *Ik*: Metsäpirtti [Zaporozhskoe], Valkjärvi [Michurinskoe] [Elfvig, 1968; FinBIF, 2024].
- #*Coelioxys (Coelioxys) conoideus* (Illiger, 1806)  
 DISTRIBUTION. **Leningrad Area**, *Ka*: Vyborg [FinBIF, 2024].
- \*#*Coelioxys (Coelioxys) elongatus* Lepelletier de Saint-Fargeau, 1841  
 DISTRIBUTION. **Karelia**, *Kl*: Pälkjärvi, Kirjavalahi; **Leningrad Area**, *Ka*: Hogland, *Ik*: Uusikirkko [Polyany], Muolaa [Pravdino] [Elfvig, 1968].

\*#*Coelioxys (Coelioxys) quadridentatus* (Linnaeus, 1758)

= *Coelioxys conicus* (Linnaeus, 1758)

DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki, Impilahti, Salmi, *Ks*: Paanajärvi; **Leningrad Area**, *Ka*: Lavansaari [Moschny Is.], *Ik*: Terijoki [Zelenogorsk], Metsäpirtti [Zaporozhskoe], Muolaa [Pravdino], Uusikirkko [Polyany] [Westerlund, 1893; FinBIF, 2024].

\*#*Megachile (Eutricharaea) rotundata* (Fabricius, 1787)

DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki, Sortavala, Salmi; **Leningrad Area**, *Ka*: Viipuri [Vyborg], Koivisto [Primorsk], Seiskari [Seskar Is.], Säkkijärvi [Kondrat'evo], Räisälä [Mel'nikovo], *Kl*: Käkisalmi [Priozersk], *Ik*: Terijoki [Zelenogorsk], Muolaa [Pravdino], Pyhäjärvi [Otradnoe], Sakkola [Gromovo], Metsäpirtti [Zaporozhskoe], Kanneljärvi [Pobeda] [Niemelä, 1936; Elfving, 1968; FinBIF, 2024].

\*#*Megachile (Megachile) alpicola* Alfken, 1924

DISTRIBUTION. **Karelia**, *Kl*: Lahdenpohja, Suistamo, Sortavala, Kirjavalahi, Impilahti, Salmi, *Kol*: Petrozavodsk, *Kon*: Juustjärvi [Yustozero], Kumsjärvi [Kumsa], Karhumäki [Medvezh'egorsk] [Niemelä, 1936; Elfving, 1968; FinBIF, 2024].

\*#*Megachile (Megachile) bombycina* Radoszkowski, 1874

DISTRIBUTION. **Karelia**, *Kl*: Hiitola, Sortavala, *Kon*: Kumsjärvi; **Leningrad Area**, *Ka*: Säkkijärvi [Kondrat'evo], *Ik*: Metsäpirtti [Zaporozhskoe], *Kol*: Vaaseni [Vazhiny] [Niemelä, 1936; Elfving, 1968; FinBIF, 2024].

REMARK. Regionally extinct in Finland.

\*#*Megachile (Megachile) centuncularis* (Linnaeus, 1758)

DISTRIBUTION. **Leningrad Area**, *Ik*: Metsäpirtti [Zaporozhskoe] [Westerlund, 1893; FinBIF, 2024].

REMARK. Regionally extinct in Finland.

\*#*Megachile (Megachile) lapponica* Thomson, 1872

DISTRIBUTION. **Leningrad Area**, *Ik*: Terijoki [Zelenogorsk], Metsäpirtti [Zaporozhskoe], Rautu [Sosnovo] [FinBIF, 2024].

\*#*Megachile (Megachile) ligniseca* (Kirby, 1802)

DISTRIBUTION. **Leningrad Area**, *Ka*: Viipuri [Vyborg], Johannes [Sovetsky], Jääski [Lesogorsky], Säkkijärvi [Kondrat'evo]; *Ik*: Kuolemajärvi [Pionerskoe], Pyhäjärvi [Otradnoe], Metsäpirtti [Zaporozhskoe] [FinBIF, 2024].

\*#*Megachile (Megachile) pyrenaea* Pérez, 1890

MATERIAL. **Karelia**, *Kon*: Kizhsky Reserve, Vorob'i, 1 km S, YPT, 18–22.08.2008, 1♀; Grynnavolok Peninsula, 2.07.2019, 1♀, 4.07.2019, 1♂.

DISTRIBUTION. **Karelia**, *Kl*: Sortavala, Kirjavalahi, Pälkäjärvi, Suistamo, Jänisjärvi, Salmi; **Leningrad Area**, *Ka*: Viipuri [Vyborg], Koivisto [Primorsk], Jääski [Lesogorsky], *Ik*: Terijoki [Zelenogorsk], Muolaa [Pravdino], Pyhäjärvi [Otradnoe], Kivennapa [Pervomayskoe], Metsäpirtti [Zaporozhskoe] [Niemelä, 1936; Elfving, 1968; FinBIF, 2024].

REMARKS. Missed from the Catalogue [2017], listed as present in Russia by Proshchalykin *et al.* [2023]. Recorded also from Bashkortostan [GBIF, 2024c].

\*#*Megachile (Megachile) versicolor* Smith, 1844

MATERIAL. **Karelia**, *Kol*: Lososinnoe 5 km NE, YPT, 9–12.07.2012, 1♀.

DISTRIBUTION. **Leningrad Area**, *Ka*: Viipuri [Vyborg], Johannes [Sovetsky], Jääski [Lesogorsky], Koivisto [Primorsk], Säkkijärvi [Kondrat'evo], Lavansaari [Moschny Is.], Tytärsaari [Bol'shoi Tyuters], *Kl*: Käkisalmi [Priozersk], *Ik*: Terijoki [Zelenogorsk], Muolaa [Pravdino], Metsäpirtti [Zaporozhskoe], *Kol*: Vaaseni [Vazhiny] [Niemelä, 1936; Elfving, 1968; FinBIF, 2024].

\*#*Megachile (Pseudomegachile) ericetorum* Lepeletier de Saint-Fargeau, 1841

DISTRIBUTION. **Karelia**, *Kl*: Sortavala, Kirjavalahi; **Leningrad Area**, *Ka*: Viipuri [Vyborg], *Ik*: Metsäpirtti [Zaporozhskoe], Rautu [Sosnovo] [Niemelä, 1936; Elfving, 1968; FinBIF, 2024].

REMARK. Regionally extinct in Finland.

\*#*Megachile (Xanthosarus) analis* Nylander, 1852

DISTRIBUTION. **Leningrad Area**, *Ka*: Viipuri [Vyborg], *Ik*: Muolaa [Pravdino], Uusikirkko [Polyany], Sakkola [Gromovo], Metsäpirtti [Zaporozhskoe] [Niemelä, 1936; Elfving, 1968; FinBIF, 2024].

\*#*Megachile (Xanthosarus) circumcincta* (Kirby, 1802)

DISTRIBUTION. **Karelia**, *Kl*: Hiitola, Kurkijoki, Suistamo, Impilahti, Salmi, *Kol*: Teru [Pryazha]; **Leningrad Area**, *Ik*: Terijoki [Zelenogorsk], Muolaa [Pravdino], Pyhäjärvi [Otradnoe] [Westerlund, 1893; Niemelä, 1936; FinBIF, 2024].

\*#*Megachile (Xanthosarus) lagopoda* (Linnaeus, 1761)

MATERIAL. **Karelia**, *Kol*: Besovets, 9.05.2011, 1♀ (V. Yakovlev), *Kon*: Gomsel'ga, 2 km S, 7.08.1994, 1♀, Nizhnee Myagrozero, 20.07.2012, 1♀.

DISTRIBUTION. **Karelia**, *Kl*: Sortavala; **Leningrad Area**, *Ka*: Viipuri [Vyborg], Johannes [Sovetsky], Koivisto [Primorsk], Antrea [Kamennogorsk], *Ik*: Terijoki [Zelenogorsk], Uusikirkko [Polyany], Sakkola [Gromovo], Metsäpirtti [Zaporozhskoe] [Niemelä, 1936; Elfving, 1968; FinBIF, 2024].

\*#*Megachile (Xanthosarus) maritima* (Kirby, 1802)

DISTRIBUTION. **Karelia**, *Kol*: Kovera; **Leningrad Area**, *Ik*: Metsäpirtti [Zaporozhskoe] [Elfving, 1968; FinBIF, 2024].

\*#*Megachile (Xanthosarus) nigriventris* Schenck, 1870

DISTRIBUTION. **Leningrad Area**, *Ka*: Viipuri [Vyborg], *Ik*: Pyhäjärvi [Otradnoe], Kivennapa [Pervomaiskoe] [FinBIF, 2024].

\*#*Megachile (Xanthosarus) willughbiella* (Kirby, 1802)

DISTRIBUTION. **Leningrad Area**, *Ka*: Viipuri [Vyborg], Johannes [Sovetsky], Koivisto [Primorsk], Suursaari [Hogland], Tytärsaari [Bol'shoi Tyuters]; *Ik*: Terijoki [Zelenogorsk], Kuolemajärvi [Pionerskoe], Kivennapa [Pervomaiskoe], Sakkola [Gromovo], Metsäpirtti [Zaporozhskoe] [FinBIF, 2024].

## FAMILY APIDAE

### Subfamily NOMADINAE

\*#*Nomada fusca* Schwarz, 1986

MATERIAL. **Karelia**, *Kon*: Kizhsky Reserve, Lelikovo, 1.07.2017, 2♀.

DISTRIBUTION. **Karelia**, *Kl*: Kurkijoki, Sortavala, *Kpoc*: Kostomuksha NR, Akonlahti [FinBIF, 2024].

**#*Nomada subcornuta*** (Kirby, 1802)

DISTRIBUTION. **Leningrad Area**, *Ik*: Muolua [Pravdino] [FinBIF, 2024].

**#*Nomada tormentillae*** Alfken, 1901

= *Nomada montana* (Mocsary, 1894)

DISTRIBUTION. **Leningrad Area**, *Ik*: Terijoki [Zelenogorsk], Ollila [Solnechnoe] [FinBIF, 2024].

REMARK. Previously, it was considered as subspecies of *N. roberjeotiana* Panzer, 1799, but on the basis of DNA barcoding it was shown that they are separate species [Schmidt *et al.*, 2015], and this view is generally accepted.

**\**Epeolus cruciger*** (Panzer, 1799)

DISTRIBUTION. **Karelia**, *Kl*: Salmi [FinBIF, 2024].

Subfamily APINAE

**\**Epeoloides coecutiens*** (Fabricius, 1775)

MATERIAL. **Karelia**, *Kl*: Valaam, Skitskiy Is., 28.07.2009, 1♂ (Polevoi).

DISTRIBUTION. **Karelia**, *Kl*: Hiitola, Kurkijoki, Lahdenpohja [FinBIF, 2024].

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