

## Faunistic records and description of two new species of Tersilochinae (Hymenoptera: Ichneumonidae) from Russia and other countries

## Фаунистические находки и описание двух новых видов терзилохин (Hymenoptera: Ichneumonidae: Tersilochinae) из России и других стран

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**Abstract.** Based on the large examined materials of Tersilochinae from the Zoological Institute of the Russian Academy of Sciences (St Petersburg) and other world collections, faunistic records from the Palaearctic Region (mainly from Russia) for 87 tersilochine species belonging to ten genera are provided, including ten species recorded for the first time from Russia. Two new species, *Probles smaragdites* Khalaim, **sp. nov.** and *Tersilochus turpiculus* Khalaim, **sp. nov.**, are described from the Russian Far East. *Gelanes tootsae* Khalaim, 2002 **syn. nov.** is synonymised with *G. cuspidatus* Khalaim, 2002. *Tersilochus kerzhneri* Khalaim, 2007 is excluded from the fauna of Europe. The male of *Tersilochus impunctator* Khalaim, 2012 is recorded for the first time. Specimens of Tersilochinae, deposited in the Zoological Institute RAS (St Petersburg) and the Zoological Museum of the Moscow State University (Moscow) and briefly mentioned from the former USSR by K. Horstmann in his revisions (1971, 1981), are found, re-examined, and their complete label data are provided.

**Резюме.** На основе обширного изученного материала терзилохин (Tersilochinae) из Зоологического института РАН (Санкт-Петербург) и других мировых коллекций представлены фаунистические находки из Палеарктики (главным образом из России) для 87 видов терзилохин, относящихся к 10 родам, в том числе десять видов отмечены для России впервые. Два новых вида описаны с Дальнего Востока России: *Probles smaragdites* **sp. nov.** и *Tersilochus turpiculus* **sp. nov.** *Gelanes tootsae* Khalaim, 2002 **syn. nov.** сведен в синонимы к *G. cuspidatus* Khalaim, 2002. *Tersilochus kerzhneri* Khalaim, 2007 исключен из фауны Европы. Впервые отмечен самец *Tersilochus impunctator* Khalaim, 2012. Экземпляры терзилохин, хранящиеся в коллекции Зоологического института РАН (Санкт-Петербург) и Зоологического музея Московского государственного университета (Москва) и указанные для территории бывшего СССР К. Хорстманном в его ревизиях (Horstmann, 1971, 1981), найдены в коллекциях, изучены, и здесь приведены полные данные их этикеток.

**Key words:** Palaearctic Region, fauna, taxonomy, parasitoids, new synonym, new species

**Ключевые слова:** Палеарктика, фауна, таксономия, паразитоиды, новый синоним, новые виды

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## Introduction

The first faunistic review of the Palaearctic *Tersilochinae* (Khalaim, 2016) comprised records of 87 species belonging to 13 genera from Europe (except Russia), North Africa, Caucasus and the Middle East. The aim of this paper is to describe two new species and provide a plenty faunistic records of tersilochine species from Russia and several other countries, including many findings from the Palaearctic Region east of the Ural Mountains. The taxonomic status of two species from the genus *Gelanes* Horstmann, 1981, occurring in the Russian Far East, will be revised, and explanations on Horstmann's records of *Tersilochinae* from the former USSR (Horstmann, 1971, 1981) will be given below.

## Material and methods

This work is based on the materials from the following insect collections: Natural History Museum, London, UK (BMNH); Ehime University, Matsuyama, Japan (EUMJ); Zoological Museum of the Moscow State University, Moscow, Russia (ZMUM); Texas A&M University, College Station, Texas, USA (TAMU); Steinhardt National History Museum and Research Centre, Tel Aviv University, Israel (TAU); Oberösterreichisches Landesmuseum, Linz, Austria (OLML); Naturalis, Leiden, the Netherlands (RMNH); Zoological Institute RAS, St Petersburg, Russia (ZIN); and Zoologische Staatssammlung, Munich, Germany (ZSM). Additional specimens were provided for the study by Andrei E. Humala (Petrozavodsk, Karelia, Russia; HUM). The "Viktorov's" collection is deposited in the ZMUM, and the "Leningrad" collection mentioned in the Horstmann's publications (Horstmann, 1971, 1981) means the ZIN.

The species below as well as countries in the *Material examined* sections are listed in alphabetical order. Regions of countries are given generally from west to east and north to south. Latin abbreviations of biological provinces of the Russian part of Fennoscandia follow those of Heikinheimo & Raatikainen (1971). The term Middle Asia is used here for the region comprising Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan. New country records are marked with an asterisk (\*).

The data in the *Distribution* sections are given in a brief form, with regions and countries listed generally from west to east.

## Taxonomic part

### Order Hymenoptera

### Family Ichneumonidae

### Subfamily *Tersilochinae*

#### 1. *Aneucleis brevicauda* (Thomson, 1889)

*Material examined.* **Russia**, *Moscow Prov.*, Mikhnevo, 11.VIII.1963, coll. E. Antonova, 1 female (ZMUM).

*Distribution.* Europe, Kazakhstan, Middle Asia.

#### 2. *Aneucleis incidens* (Thomson, 1889)

*Material examined.* **Russia**, *Chelyabinsk Prov.*, Miass, Zlatoust, 18.VI.19... [illegibly], coll. Zhelochovtsev, 1 female (ZMUM).

*Distribution.* Madeira Islands, Europe, Caucasus, Turkey, Israel, Iran, Kazakhstan, Middle Asia, Mongolia, Siberia, Russian Far East.

#### 3. *Aneucleis maritima* (Thomson, 1889)

*Material examined.* **Kazakhstan**, *Akmola Prov.*: 70 km NW of Akmolinsk [Astana; since March 2019, Nur-Sultan], 19.VI.1935, coll. B. Kuzin, 1 female (ZMUM); same province and collector, ... [illegible text], 28.VIII.1941, 1 female (ZMUM). **Russia**: *Voronezh Prov.*: Ramon', 8.VII.1946, coll. Morgunov, 1 female (ZMUM); Voronezh Nature Reserve, 23.[?].1950 [month illegible], coll. D. Dovnar[-Zapol'skiy], 1 female (ZMUM); *Volgograd Prov.*: Kamyshin, left riverside of Volga, floodplane, 14.VIII.1949, coll. G. Viktorov, 1 female [det. K. Horstmann] (ZMUM); Kamyshin Distr., Sestrenki Vill. [no longer exist], floodplane, 18.VIII.1949, coll. G. Viktorov, 1 female (ZMUM); same locality and collector, 19.VIII.1949, 1 female [metasoma absent but part of the long ovipositor present] (ZMUM); same district and collector, Salomatino Settlm., floodplane, 17.VIII.1949, 1 female [head absent] (ZMUM).

*Remarks.* Horstmann (1981: 19) recorded this species from "Südrußland", based on the collection of Viktorov, but without any details. One specimen of *A. maritima* from the Volgograd Province of Russia, which is stored in the ZMUM collection and has the identification label of Horstmann (see *Material examined* section), was examined.

*Distribution.* Canary Islands, Europe, Caucasus, Kazakhstan, Siberia.

#### 4. *Aneuclis melanaria* (Holmgren, 1860)

*Material examined.* **Afghanistan** or **Tajikistan:** Pamir, “35 km from Khorugh”, 31.VIII.1959, coll. E. Borovkov, 1 female (ZMUM). **Crimea:** Kara-Dag Mts., 22.VII.1936, coll. Yu. Kostylev, 1 female (ZMUM); Crimean Nature Reserve, 24.VII.1938, coll. V. Heptner, 1 female (ZMUM).

*Distribution.* North Africa, Europe, Caucasus, Turkey, Iran, Kazakhstan, Middle Asia, Afghanistan, Mongolia.

#### 5. *Aneuclis pumilus* (Holmgren, 1860)

*Material examined.* **Abkhazia,** Ermolovskoe [Tsandripsh Settlm.], NW of Gagry [Gagra], 18.VIII.1933, coll. G. Kostylev, 2 females (ZMUM). **Germany,** Bavaria, Allgäu, Kempten, Kempter Wald Schornmoos, 47°44'26"N, 10°30'25"E, 805 m a.s.l., Malaise trap, 3–21.IX.2015, coll. D. Doczkal & J. Voith, 1 female (ZSM). **India,** State of Gujarat, Junagadh, Girnar Mt., 21°31'33.6"N, 70°28'48.0"E, forest, stream, pond, 20–31.X.2012, coll. K. Tomkovich, 1 female (ZMUM). **Russia:** *Ul'yanovsk Prov.*, Sengiley Distr., near Shilovka, 54°00'36.0"N, 48°41'24.0"E, yellow pan trap, 1–3.IX.2010, coll. K. Tomkovich, 2 females (ZMUM); *Krasnodar Terr.*, E of Sochi, Alpika-service [former ski resort], 43°40'N, 40°17'E, 600 m a.s.l., 11–13.VI.2008, coll. K. Tomkovich, 1 female (ZMUM); *Primorsky Terr.*, near Vladivostok, coastal area, yellow pan trap, 22.VIII.2010, coll. Sk. Yamane, 4 females (EUMJ).

*Distribution.* Cosmopolitan species, probably with European origin. North America, Mexico, North Africa, Europe, Caucasus, Middle Asia, Mongolia, Siberia, Russian Far East, Australia, Afrotropical and Oriental Regions.

#### 6. *Aneuclis stigmata* Khalaim, 2004

*Material examined.* **Kazakhstan,** West Kazakhstan *Prov.*, Kolovertnoe, Ural River, 30.VII.1951, coll. I. Belyaeva, 1 male (ZMUM). **Russia:** “Tundorov... [illegible text]”, 14.VII.1951, coll. D. Dovnar[-Zapol'skiy], 1 female (ZMUM); *Saratov Prov.*, Rovnoe, floodplane of Volga River, 28.VII.1951, coll. A. Peredel'skiy, 1 female, 1 male (ZMUM); *Volgograd Prov.*, Gornaya Polyana, 3.VII.1951, coll. I. Tiskhina, 1 female (ZMUM).

*Distribution.* Russia (south-east of the European part, southern Siberia), Kazakhstan, Tajikistan, Mongolia.

#### 7. *Barycnemis angustipennis* (Holmgren, 1860)

*Material examined.* **Russia:** *Kursk Prov.*, near Kursk, 5.VII.1936, coll. D. Dovnar[-Zapol'skiy], 1 female (ZMUM); *Altai Republic*, 187 km of Katun River, Kuyum River [51°29'54"N, 85°58'06"E], VII.1935, coll. Yu. Kostylev, 1 female (ZMUM).

*Distribution.* ?North America, Europe, Turkey, Siberia, Russian Far East.

#### 8. *Barycnemis bellator* (Müller, 1776)

*Material examined.* **Russia:** *Karelia,* Kon, South Oleniy I., 62°05'N, 35°36'E, 5.VII.2017, coll. A.E. Humala, 1 female (HUM); *Moscow Prov.*, Moscow Nature Reserve [currently Prioksko-Terrasnyy Nature Reserve], Luzhki, VII.1946, A. Peredel'skiy, 1 female (ZMUM); *Khakassia,* Shira Distr., Shira-Itkul' Lakes, 55°26'42"N, 90°10'37"E, “tophill Bettuletum”, 25–28.VI.2011, coll. K. Tomkovich, 1 female (ZMUM); *Buryatia,* 45 km WSW of Selenginsk, Baikal Lake, bank of Sor Bay, 51°55'08"N, 106°09'25"E, 451 m a.s.l., 2–3.VIII.2012, coll. T. Galinskaya, 1 female (ZMUM); *Sakhalin Prov.*, Kuril Is., Raikoke I., inland from eastern side, 48°18'N, 153°16'E, 30.VII.2000, coll. D.J. Bennett & T.R. Anderson, 5 females (TAMU).

*Distribution.* North America, Europe, Caucasus, Kazakhstan, Middle Asia, Mongolia, Siberia, Russian Far East, Republic of Korea, China (Ningxia).

#### 9. *Barycnemis claviventris* (Gravenhorst, 1829)

*Material examined.* **Mongolia,** Zavkhan Aimag, “W”, 40 km SW of Uliastay, dunes, 18.VII.2005, coll. J. Halada, 1 female (OLML). **Russia,** Voronezh *Prov.*, Voronezh Nature Reserve, 10.IX.19... [illegibly], coll. D. Dovnar[-Zapol'skiy], 1 female (ZMUM).

*Distribution.* ?Greenland, Europe, Kazakhstan, Mongolia, Siberia, Russian Far East.

#### 10. *Barycnemis confusa* Horstmann, 1981

*Material examined.* **Russia,** *Khakassia:* Shira Distr., Shira-Itkul' Lakes, 55°26'42"N, 90°10'37"E, “tophill Bettuletum”, 25–28.VI.2011, coll. K. Tomkovich, 1 female (ZMUM); same district and collector, Bele Salt Lake, 54°39'00"N, 90°10'48"E, 382 m a.s.l., yellow pan trap, 1–3.VII.2011, 1 female (ZMUM).

*Distribution.* North America, Europe, Mongolia, Siberia, Russian Far East.

#### 11. *Barycnemis deserta* Schwarz, 2003

*Material examined.* **Russia,** Tyumen *Prov.*, Yamalo-Nenets Autonomous Region, environs of Sob',



67°03'36"N, 65°27'36"E, 26–31.VII.2011, coll. K. Tomkovich, 2 females (ZMUM, ZIN).

*Distribution.* Europe, West Siberia.

## 12. *Barycnemis exhaustator* (Fabricius, 1798)

*Material examined.* \*Russia, Moscow Prov., Orekhovo-Zuevo Distr., Antsiferovo Station, 26.IV.2002, coll. K. Tomkovich, 1 male (ZMUM).

*Distribution.* Europe, Kazakhstan.

## 13. *Barycnemis gracillima* (Thomson, 1889)

*Material examined.* Russia: Vladimir Prov.: near Stavrov, Yagodnoe, 10.X.1961, coll. E. Antonova, 1 female (ZMUM); same data, but 11.X.1961, 1 female [det. K. Horstmann] (ZMUM); Volgograd Prov., Kamyshin, left riverside of Volga, floodplane, 14.VIII.1949, coll. G. Viktorov, 1 female [det. K. Horstmann] (ZMUM).

*Remarks.* Horstmann (1981: 61) recorded this species from "Zentral- und Südrußland", based on materials from several museums, including the collection of Viktorov, but without any details. Two specimen of *B. gracillima* from the Vladimir and Volgograd provinces of Russia, which are stored in the ZMUM collection and are provided with the identification labels of Horstmann (see *Material examined* section), were examined.

*Distribution.* Europe, Caucasus, Kazakhstan.

## 14. *Barycnemis guttulator* (Thunberg, 1822)

*Material examined.* Russia, Voronezh Prov., Voronezh Nature Reserve, 3.V.1950, coll. D. Dovnar[-Zapol'skiy], 1 female (ZMUM).

*Distribution.* Europe, Siberia.

## 15. *Barycnemis harpura* (Schrank, 1802)

*Material examined.* Crimea, Pionerskoe, 12.IX.1975, coll. L. Zimina, 1 female (ZMUM). Georgia: N of Tbilisi, Magaroskari, 19.VI.2014, coll. Snížek, 1 female (OLML); N of Tbilisi, Zemo Artani, N Tianeti, 13.VI.2014, coll. Snížek, 1 male (OLML). Kazakhstan, East Kazakhstan Prov., 49°15'00"N, 87°04'48"E, 1750 m a.s.l., 3–5.VII.2012, coll. O. Kosterin, 1 male (ZMUM). \*Kyrgyzstan, Jalal-Abad Prov.: Talas, Tschitschkantal, 42°06'52"N, 72°48'14"E, 1650–1700 m a.s.l., 24–25.VI.2010, coll. E. & J. Hüttinger, 2 males (OLML); Osch, Nookat, waterfall on Abschyr-Say River, 42°07'44"N, 72°21'42"E, 1870–1950 m a.s.l., 20–21.VI.2010, coll. E. & J. Hüttinger, 3 females, 5 males (OLML); Tskhatkal-Geb., Tschanatsch-Tal, 41°35'55.3"N, 71°30'13.7"E, 1930 m a.s.l., 3.VI.2008, coll. E. & J. Hüttinger, 6 males, 6 specimens

of unknown sex [metasoma absent] (OLML). Mongolia: *Övörkhangai Aimag*, "C", 90 km NE of Tsetserleg, 45°03'N, 102°25'E, 1400 m a.s.l., 27.VII.2005, coll. J. Halada, 1 female (OLML); *Dornod Aimag*, "E", 100 km W of Choibalsan, 820 m a.s.l., 23.VII.2005, coll. J. Halada, 1 female (OLML). Russia: *Karelia*, NW of Ladoga Lake, near Kurkiyoki [Kurkijoki], Koyonsari I., 28–29.VII.2005, coll. K. Tomkovich, 1 male (ZMUM); *Moscow Prov.*: 10 km S of Moscow, 3.IX.1988, coll. V. Barták, 1 female (OLML); 60 km S of Moscow, 3.IX.1988, coll. V. Barták, 1 female (OLML); *Vzletnaya*, 3.IX.1988, coll. V. Barták, 1 female (OLML); SW of Moscow, Moskovskiy, 55°34'51"N, 37°20'15"E, 20.VIII.2016, coll. K. Tomkovich, 1 female (ZMUM); Orekhovo-Zuevo Distr., station at 73 km, Smolevo Vill., 55°34'44"N, 38°39'58"E, 125 m a.s.l., yellow pan trap, 16–20.VIII.2011, coll. K. Tomkovich, 4 females (ZMUM); Podol'sk Distr., Station Vesennyaya, 55°23'17"N, 37°32'10"E, yellow pan trap, 30.VIII–2.IX.2011, coll. K. Tomkovich, 2 females (ZMUM); Polushkino, 24.VIII.1966, coll. G. Viktorov, 1 female (ZMUM); *Bashkortostan*, Abzakovo – Murakaevo, E of Kryktytau Mts., *Betula*, steppe, 2–8.VIII.2008, coll. K. Tomkovich, 1 female, 1 male (ZMUM); *Chelyabinsk Prov.*, near Zlatoust, Taganay Mts., 55°13'41"N, 59°47'42"E, 18–24.VII.2008, coll. K. Tomkovich, 1 male (ZMUM); *Khakassia*, Shira Distr., Shira Salt Lake, 54°29'06"N, 90°13'26"E, 350 m a.s.l., *Larix* and *Betula*, 21–24.VI.2011, coll. K. Tomkovich, 1 female (ZMUM); *Krasnoyarsk Terr.*, Stolby Nature Sanctuary, 55°57'43"N, 92°45'00"E, 300 m a.s.l., pine forest on mountain, yellow pan trap, 28–31.VII.2009, coll. K. Tomkovich, 1 female (ZMUM); *Sakhalin Prov.*, Kuril Is., Ekarma I., E of Cape Shpilevoy, 48°58'N, 153°55'E, 10.VIII.1996, coll. B.K. Urban, 1 female (TAMU).

*Distribution.* Widespread and abundant Holarctic species. North America, Europe, Caucasus, Turkey, Kazakhstan, Middle Asia, Mongolia, Siberia, Russian Far East, Japan.

## 16. *Barycnemis punctifrons* Horstmann, 1981

*Material examined.* Russia: *Moscow Prov.*: SW of Moscow, Moskovskiy, 55°34'51"N, 37°20'15"E, yellow pan trap, 1–2.VIII.2016, coll. K. Tomkovich, 1 female (ZMUM); Povoarovo, 6.IX.1955, coll. G. Viktorov, 1 male [det. K. Horstmann] (ZMUM); [Bol'shoe?] "Kropotovo" [Vill.] 4.VIII.1964, coll. G. Viktorov, 1 male (ZMUM); Mikhnevo, 2.IX.1962, coll. E. Antonova, 1 male (ZMUM); Zvenigorod, 11.VIII.1948, coll. G. Viktorov, 1 male (ZMUM); same locality, 4.VIII.1954, coll. Plavilshchikov, 1 male (ZMUM); same locality and collector, 27.VIII.1956, 1 female (ZMUM); Barybino, 6.VIII.1949, coll. Plavilshchikov, 1 female (ZMUM); Snegiri, 11–13.VII.1959,

coll. Plavilshchikov, 2 males (ZMUM). *Kaluga Prov.*: Tarusa, 18.VII.1950, coll. Plavilshchikov, 1 male [det. K. Horstmann] (ZIN); same locality and collector, 15–19.VIII.1958, 2 females [det. K. Horstmann] (ZMUM, ZIN); same locality and collector, 18.VII.–19.VIII.1950–1958, 10 males (6 in ZMUM, 4 in ZIN).

*Remarks.* Horstmann (1981: 68–69) recorded this species from Ukraine and “Zentralrußland”, based on the collection of Viktorov but without any details. Four specimens of *B. punctifrons* from the Moscow and Kaluga provinces of Russia, which are stored in the ZMUM collection and are provided with the identification labels of Horstmann (see *Material examined* section), were examined. No specimens from Ukraine were found.

*Distribution.* Europe, Caucasus, Kazakhstan, Siberia, Russian Far East.

#### 17. *Barycnemis sugonyaevi* Khalaim, 2015

*Material examined.* \***Japan**, *Kantō Region*, Ibaraki Prefecture, Namase, Daigo, 36°48'N, 140°24'E, 290 m a.s.l., floor of coppice forest, Malaise trap, 16–20. IV.1997, coll. J. Kojima, 1 female (RMNH).

*Distribution.* Russian Far East, Japan.

#### 18. *Barycnemis tobiasi* Khalaim, 2004

*Material examined.* **Russia**, *Sakhalin Prov.*, *Kuril Is.*: Kunashir I., inland of Alekhina Bay, 43°55'N, 145°32'E, 19.VIII.1999, coll. D.J. Bennett, 1 female (TAMU); Simushir I., inland of NE Broutona Bay, 47°08'N, 152°16'E, 2.VIII.2000, coll. D.J. Bennett, 4 females, 2 males (3 females, 1 male in TAMU; 1 female, 1 male in ZIN); same island, inland of Kitoboy'naya Bay, 46°51'N, 151°48'E, 10.VIII.1995, coll. M. Ohara, 1 female (TAMU).

*Distribution.* Siberia, Russian Far East, Japan, Nepal.

#### 19. *Diaparsis (Diaparsis) carinifer* (Thomson, 1889)

*Material examined.* **Russia**: *Karelia*, Kp, Pudozh Distr., Koloda River, 23.VI.2009, coll. A.E. Humala, 1 male (HUM); *Voronezh Prov.*, Voronezh Nature Reserve, 22.V.1950, coll. D. Dovnar[-Zapol'skiy], 1 female (ZMUM). \***Kyrgyzstan**: S of Frunze [Bishkek], Tash-Moynok, 1300 m a.s.l., 6.VI.1943, coll. A. Lubischew, 1 female (ZMUM).

*Distribution.* Europe, Turkey, Jordan, Iran, Middle Asia, Russian Far East, Republic of Korea; released into USA but not established there (Horstmann, 2012).

#### 20. *Diaparsis (Diaparsis) jucunda* (Holmgren, 1860)

*Material examined.* **Russia**: *Karelia*: Kon, Pachoostrov I., 61°96'N, 35°32'E, 29.VI.2017, coll. A.E. Humala, 1 male (HUM); Kon, Kalgov I., 62°00'N, 35°13'E, meadows, 2.VII.2017, coll. A.E. Humala, 1 male (HUM); Kon, Yuzhnyy Oleniy I., 62°05'N, 35°36'E, 5.VII.2017, coll. A.E. Humala, 1 male (HUM); same date and collector, Severnyy Oleniy I., 62°07'N, 35°35'E, 1 male (HUM); Kon, Vatnavolok Peninsula, 62°00'N, 35°36'E, 6.VII.2017, coll. A.E. Humala, 1 male (HUM); same date and collector, Sukhoy I., 62°00'N, 35°37'E, 1 female, 2 males (HUM); *Moscow Prov.*, Prioksko-Terrasnyy Nature Reserve, 41st km, 4.VI.1962, coll. E. Antonova, 1 male (ZMUM).

*Distribution.* Europe, Iran, Eastern Siberia, Russian Far East, Republic of Korea.

#### 21. *Diaparsis (Diaparsis) nutritor* (Fabricius, 1804)

*Material examined.* \***Kazakhstan**, *Akmola Prov.*, [without locality], 15.VII.1941, coll. B. Kuzin, 1 female (ZMUM). **Russia**, *Volgograd Prov.*, Kamyshin Distr., Sestrenki Vill. [no longer exist], 30.VI.1950, coll. G. Viktorov, 1 female [apex of ovipositor absent] [det. K. Horstmann] (ZMUM).

*Remarks.* Horstmann (1981: 19) recorded this species from “Südrußland”, based on the collection of Viktorov, and from “Ukraine”, based on the Leningrad collection, but without any details. One specimen of *D. nutritor* from the Volgograd Province of Russia, which is stored the ZMUM collection and is provided with the identification label of Horstmann (see *Material examined* section), was examined. Material of *D. nutritor* from Ukraine, deposited in the ZIN collection was published by Khalaim (2005: 421).

*Distribution.* Europe, Caucasus, Turkey, Kazakhstan.

#### 22. *Diaparsis (Diaparsis) rara* (Horstmann, 1971)

*Material examined.* **Russia**: *Smolensk Prov.*, Vyz'az'ma Distr., Shuyskoe, 55°27'00"N, 34°26'24"E, 220 m a.s.l., 12–14.VII.2014, coll. K. Tomkovich, 1 female (ZMUM); *Amur Prov.*, 40 km SW of Zea River, mixed forest, 27.VII.2003, coll. S.A. Belokobyl'skiy, 1 female (ZIN).

*Distribution.* Europe, Turkey, Kazakhstan, Siberia, Russian Far East, China (north).

**23. *Diaparsis (Ischnobatis) stramineipes***  
(Brischke, 1880)

*Material examined.* **Kazakhstan**, *West Kazakhstan Prov.*, Urda [Khan-Ordasy], 27.V.1953, coll. P. Rafes, 1 female [det. K. Horstmann] (ZMUM). **Russia**: *Moscow Prov.*, Ruza, 6.VII.1940, coll. Yu. Kostylev, 1 female (ZMUM); Skorotovo, 30.V.1989, coll. V. Barták, 1 male (OLML); *Volgograd Prov.*, Kamyshin Distr., Sestrenki Vill. [no longer exist], 28.V.1950, coll. G. Viktorov, 1 female [det. K. Horstmann] (ZMUM).

*Remarks.* Horstmann (1981: 19) recorded this species from “Südrußland”, Ukraine and Kazakhstan, based on the Viktorov’s and Leningrad collections. Two specimens of *D. stramineipes* from the Volgograd Province of Russia and West Kazakhstan Province of Kazakhstan, which are stored in the ZMUM collection and are provided with the identification labels of Horstmann (see *Material examined* section), were examined. Material of *D. stramineipes*, deposited in the ZIN collection was published by Khalaim (2002b: 387).

*Distribution.* Europe, Kazakhstan, Siberia, Russian Far East.

**24. *Diaparsis (Nanodiaparsis) aperta***  
(Thomson, 1889)

*Material examined.* **Czech Republic**, *South Bohemia*, Třeboň basin, Cervené Blato peatbog, 472 m a.s.l., meadows near grass and shrubs, 15.VII.2005, coll. A. Lozan, 1 female (ZIN). \***Kazakhstan**, *Almaty Prov.*, Talgar, 43°29.06’N, 77°30.62’E, Malaise trap, 7–21.V.2013, coll. V. Barták, 1 female (OLML).

*Distribution.* Europe, Caucasus, Turkey, Iran, Kazakhstan, Middle Asia.

**25. *Diaparsis (Nanodiaparsis) frontella***  
(Holmgren, 1860)

*Material examined.* **Crimea**: SE of Pereval’noe, Zamana Mt., 10–13.VIII.2007, coll. K. Tomkovich, 1 female (ZMUM); Crimean Nature Reserve, 2.VIII.1936, coll. V. Heptner, 1 male (ZMUM).

*Distribution.* Europe, Caucasus, Turkey, Kazakhstan, Siberia.

**26. *Epistathmus crassicornis***  
Horstmann, 1971

*Material examined.* **Czech Republic**, *South Bohemia*, Sumava Mts., Lenora, Velká Niva bog, 750 m a.s.l., light trap, 17–18.VII.2007, coll. Jaroš & Spitzer,

1 female (ZIN). **Germany**, *Bavaria*, Allgäu, Kempten, Kempter Wald Dürrenbühl, 47°42’21’’N, 10°25’55’’E, 920 m a.s.l., Malaise trap, 5–20.VIII.2015, coll. D. Doczkal & J. Voith, 1 female (ZSM). **Russia**: *Murmansk Prov.*, Nickel’ Distr., Yaniskoski, Malaise trap, 27.VII–3.VIII.2016, coll. A.E. Humala, 1 male (HUM); *Moscow Prov.*, Snegiri, 25.VI.1946, coll. Plavilshchikov, 1 female (ZMUM); *Krasnoyarsk Terr.*, 70 km W of station Kryuchkovo (40th km), pine forest, near pond, shady, 14–23.VII.2009, coll. K. Tomkovich, 1 female (ZIN).

*Distribution.* Europe, Caucasus, Siberia, Russian Far East.

**27. *Gelanes belokobylskii*** Khalaim, 2002

*Material examined.* **Russia**, *Primorsky Terr.*, Lazovskiy Nature Reserve, V.1981, coll. Roman’kova, 1 female (ZIN).

*Distribution.* Russia (Far East), Republic of Korea.

**28. *Gelanes bidentatus*** Khalaim, 2002

*Material examined.* **Russia**: *Primorsky Terr.*, Gornotaezhnoe, 43°40’12’’N, 132°10’12’’E, 18–22.V.2016, coll. S.A. Belokobylskij, 2 females (ZIN); *Sakhalin Prov.*, N of Sakhalin I., Okha Distr., Pil’tun Bay, 22–30.VI.1991, coll. A. Basarukhin, 3 females (ZIN); same data, but 9–20.VII.1991, 2 females (ZIN).

*Remarks on morphology.* Frons, vertex and genae smooth, shining to weakly shining; antennal flagellum slightly clavate, with subapical flagellomere quadrate; clypeus black; and mesoscutum finely punctate on smooth background.

*Distribution.* Russian Far East.

**29. *Gelanes carinatus*** Khalaim, 2002

*Material examined.* **Germany**, *Bavaria*, N of Bopfinger, Ipf Mt., 48°52’12’’N, 10°21’25’’E, 580–560 m a.s.l., 3.V.2016, coll. A.I. Khalaim, 1 female (ZIN).

*Distribution.* Europe.

**30. *Gelanes clypeatus*** Horstmann, 1971

*Material examined.* **Russia**, *Khabarovsk Terr.*, Khekhtsyr Range, 24th km, 30.V.1983, coll. D.R. Kasparyan, 1 female (ZIN); 20 km N of Bikin, Boytsovo, 26.V.1993, coll. S.A. Belokobylskij, 1 female (ZIN).

*Distribution.* Europe, Russian Far East, Japan (Hokkaido).



31. *Gelanes cuspidatus* Khalaim, 2002

*Gelanes tootsae* Khalaim, 2002, **syn. nov.**

**Material examined.** **Russia:** *Primorsky Terr.*, Ussuriyskiy Nature Reserve, 43°38'38"N, 132°20'46"E, 150 m a.s.l., 20–23.V.2016, coll. S.A. Belokobylskij, 1 female, 3 males (ZIN); Gornotaezhnoe, 43°41'24"N, 132°09'36"E, 21–22.V.2016, coll. S.A. Belokobylskij, 2 males (ZIN); Arsen'ev, 44°07'19"N, 133°16'12"E, 200 m a.s.l., 25–28.V.2016, coll. S.A. Belokobylskij, 1 female, 3 males (ZIN); 13 km NW of Yakovlevka, 44°32'28"N, 133°21'58"E, 250 m a.s.l., 27.V.2016, coll. S.A. Belokobylskij, 1 female (ZIN).

**Remarks on taxonomy.** According to its original description (Khalaim 2002a: 6), *G. tootsae* differs from *G. cuspidatus* only by the shape of the ovipositor. Actually, in *G. tootsae* the lower valve of ovipositor is just shifted forwards, while in the type specimens of *G. cuspidatus*, the upper and lower valves are more or less at the same level; otherwise *G. tootsae* is conspecific with *G. cuspidatus*.

**Remarks on morphology.** Frons with fine dense punctures on smooth background; mesopleuron with short distinct foveate groove; basal area on propodeum long and narrow, sometimes indistinct; second metasomal tergite quadrate to somewhat elongate; thyridial depression weakly elongate.

**Distribution.** Europe, Russian Far East, China (northeast), Republic of Korea, Japan.

32. *Gelanes fuscus* (Holmgren, 1860)

**Material examined.** **Russia:** *Murmansk Prov.:* Vudyavr Lake, "Khibin. g. Kol'sk", 24.VI.1930, coll. Fridolin, 1 female (ZIN); Lps, Pasvik Nature Reserve, Varlama I., Malaise trap, 6.VI–10.VII.2007, coll. A.E. Humala, 1 male (ZIN); same nature reserve, trap and collector, Kalkupya Mt., 69°17'13"N, 29°21'19"E, 4–30.VII.2007, 1 female (ZIN); *Stavropol Terr.*, Kislovodsk, Maloe Sedlo Mt., 1250 m a.s.l., 22.V.2009, coll. D.R. Kasparyan, 1 female (ZIN); *Irkutsk Prov.*, 32 km S of Irkutsk, Dachnaya Station, 30–31.V.1997, coll. D.R. Kasparyan, 1 female (ZIN).

**Distribution.** Europe, Turkey, Kazakhstan, Siberia, Russian Far East.

33. *Gelanes simillimus* Horstmann, 1981

**Material examined.** **Russia:** *Murmansk Prov.*, Lps, Pasvik Nature Reserve, Varlama I., Malaise trap, 6.VI–10.VII.2007, coll. A.E. Humala, 1 male (ZIN); *Moscow Prov.*, N of Moscow, Uchinskoe reservoir, 25.V.1969, coll. V. Kovalev, 1 male (ZIN); *Stavropol Terr.*, Kislovodsk, Maloe Sedlo Mt., 1250 m a.s.l.,

22.V.2009, coll. D.R. Kasparyan, 1 female (ZIN); *Che-lyabinsk Prov.*, Miass, Zlatoust, 31.V.19...[illegibly], coll. Zhelochovtsev, 1 female [specimen largely destroyed] (ZMUM); *Primorsky Terr.*, 5 km N of Novokachalinsk, 45°09'18"N, 131°59'53"E, 1.VI.2016, coll. S.A. Belokobylskij, 1 female (ZIN).

**Remarks on morphology.** The species differs from *G. cuspidatus* by the shape and length of the ovipositor, granulate and impunctate frons, and mesopleuron without distinct furrow.

**Distribution.** Europe, Turkey, Israel, Siberia, Russian Far East, Republic of Korea.

34. *Gelanes stigmaticus* Horstmann, 1981

**Material examined.** \***Germany, Bavaria,** S of Ogelshausen, Wildes Ried, 580 m a.s.l., 48°02.2'N, 9°38.7'E, 5.V.2016, coll. A.I. Khalaim, 1 female (ZIN).

**Distribution.** Germany, Poland, Ukraine.

35. *Heterocola proboscidalis* (Thomson, 1889)

**Material examined.** **Russia, Moscow Prov.**, Orekhovo, 23.V.1987, coll. V. Barták, 4 females, 4 males, 1 specimen of unknown sex [metasoma absent] (OLML).

**Distribution.** Europe, Caucasus, ?Iran, Kazakhstan, Mongolia, Siberia, Russian Far East.

36. *Phradis brevicornis* Horstmann, 1971

**Material examined.** **Austria,** Semmeringgebiet, Reichenau, 25.V–6.VI.1957, coll. G.E. Nixon, 1 female (BMNH). **Russia:** *Leningrad Prov.*, S of St Petersburg, Mozhayskoe, Duderhof Heights, 13.VII.2005, coll. S.A. Belokobylskij, 2 females, 1 male (ZIN); *Tver Prov.*, Udomlya Distr., 5.VI.2013, coll. A.G. Korotkov, 1 female (ZIN); *Altay Terr.*, SE of Biysk, mixed forest, 6.VII.2007, coll. A.I. Khalaim, 1 female (ZIN); *Krasnoyarsk Prov.*, Krasnoyarsk, Akademgorodok, birch forest, 28.VII.1986, coll. D.R. Kasparyan, 2 females (ZIN); *Sakhalin Prov., Kuril Is.:* Iturup I., inland of NE of Kasatka Bay, 45°00'N, 147°44'E, 1.VIII.1998, coll. B.K. Urbain, 1 female (TAMU); Shikotan I., 5–7 km S of Krabozavodsk, coll. D.R. Kasparyan, 1 female (ZIN). **Sweden,** Degaberga, 12.VII.1938, coll. D.M.S.P. & J.F.P., "*Thersilochus interstitialis*, Thoms. det. J.F. Perkins, 1938", 2 females (BMNH).

**Distribution.** Europe, Kazakhstan, Siberia, Russian Far East.

37. *Phradis brevis* (Brischke, 1880)

**Material examined.** **Czech Republic, South Bohemia,** Třeboň basin, Cervené Blato peatbog, 472 m a.s.l., meadows near grass and shrubs, 23.VI.2005, coll.

A. Lozan, 1 female (ZIN). **Germany:** *Baden-Württemberg*, Herrenalb, Schwarzwald, 25.VII.1898, coll. O. Adelung, 1 female (ZIN); *Bavaria*, NW of Lauterstein, Heldenberg, 560–760 m a.s.l., 48°43.5'N, 9°53.15'E, 4.V.2016, coll. A.I. Khalaim, 2 females, 1 male (ZIN); SW of Heubach, Scheuelberg, 600–720 m a.s.l., meadows, forest, 48°46.8'N, 9°54.9'E, 6.V.2016, coll. A.I. Khalaim, 1 female (ZIN). **\*Iran:** Elburz Mts., 60 km E of Minudasht, 37°20'N, 56°01'E, 1280 m a.s.l., 26.V.2007, coll. O. Sauša, 1 female (OLML). **Russia:** *Voronezh Prov.*, Borisoglebsk, 27.VI.1965, coll. G. Viktorov, 2 females, 5 males (1 female, 4 males in ZMUM; 1 female, 1 male in ZIN); *Karachay-Cherkessia*, Teberda, 1300 m a.s.l., broadleaf forest, 25.V.2009, coll. D.R. Kasparyan, 2 females (ZIN); *Mari El Republic*, Yoshkar-Ola, floodlands of Malaya Kokshaga River, near oak forest, 18.VII.2006, coll. N. Yunakov, 1 female (ZIN).

**Remarks.** Specimens in the ZIN collection from the Lugans'k Province of Ukraine, with the identification labels of Horstmann “*?brevis*” were examined; they belong to *Ph. polonicus* Horstmann, 1981 (see Khalaim et al., 2009: 116).

**Distribution.** Europe, Caucasus, Turkey, Iran, Kazakhstan, Mongolia, Siberia, Russian Far East.

### 38. *Phradis interstitialis* (Thomson, 1889)

**Material examined.** **Germany, Bavaria:** N of Bopfingen, Ipf Mt., 48°52'12"N, 10°21'25"E, 580–560 m a.s.l., 3.V.2016, coll. A.I. Khalaim, 24 females (ZIN); NW of Lauterstein, Heldenberg, 560–760 m a.s.l., 48°43.5'N, 9°53.15'E, 4.V.2016, coll. A.I. Khalaim, 10 females (ZIN); SW of Heubach, Scheuelberg, 600–720 m a.s.l., meadows, forest, 48°46.8'N, 9°54.9'E, 6.V.2016, coll. A.I. Khalaim, 6 females (ZIN); S of Adelmansfelden, Tal der Blinden Rot, 370–420 m a.s.l., 48°56'N, 10°01'E, 7.V.2016, A.I. Khalaim, 1 female (ZIN). **Ukraine, Lugans'k Prov.:** 15 km E of Sverdlovsk, Proval'ska Step' [steppe] Nature Reserve, 5–6.V.1974, coll. D.R. Kasparyan, 3 females [det. K. Horstmann] (ZIN); 3 km NW of Anratsyt, forest, 10.V.1974, coll. D.R. Kasparyan, 1 female [det. K. Horstmann] (ZIN).

**Remarks.** Horstmann (1981: 18) recorded this species from Ukraine, based on the Leningrad collection, but without any details. Four specimens of *Ph. interstitialis* from the Lugans'k Province of Ukraine, which are stored in the ZIN collection and have the identification labels of Horstmann (see *Material examined* section), were examined.

**Distribution.** Europe, Caucasus, Middle Asia.

### 39. *Phradis kharimkotanicus* Khalaim, 2007

**Material examined.** **Russia:** *Sakhalin Prov.*, Kuril Is.: Chirpoi I., inland of Peschanaya Bay, 46°32'N, 150°54'E, 10.VIII.1999, coll. A.S. Lelej, 5 females, 3 males (TAMU); Brat-Chirpoev I., motley grass, 20.VIII.1997, coll. A. Lelej & S. Storozhenko, 20 females, 3 males (ZIN); Ekarma I., E of Cape Shpilevoy, 48°58'N, 153°55'E, 10.VIII.1996, coll. B.K. Urban, 1 female (ZIN); Iturup I., inland of NE of Kasatka Bay, 45°00'N, 147°44'E, 1.VIII.1998, coll. B.K. Urbain, 2 females (TAMU); Kharimkotan I., northwest corner of island, 49°09'N, 154°28'E, 28.VII.2000, coll. T.R. Anderson, 26 females, 52 males (TAMU); Kharimkotan I., Severgina Volcano, Malaise trap, 28.VII.2000, coll. A. Lelej & S. Storozhenko, 1 female (ZIN); Onekotan I., inland and S of Nemo Bay, 49°37'N, 154°49'E, 27.VII.2000, coll. D.J. Bennett, 2 males (TAMU); same island, north shore of Lake Chernoe, 49°35'N, 154°51'E, 24.VII.1999, coll. B.K. Urbain, 3 males (TAMU); Onekotan I., shrubs and motley grass, 27.VII.2000, coll. A. Lelej & S. Storozhenko, 16 females, 14 males (ZIN); Simushir I., inland of NE Broutona Bay, 47°07'N, 152°16'E, 2.VIII.2000, coll. D.J. Bennett, 3 females (TAMU); Urup I., inland of Barkhatny Bay, 45°48'N, 149°54'E, 28.VIII.1995, coll. B.K. Urbain, 1 female (TAMU).

**Distribution.** Russia (Far East: Kuril Islands).

### 40. *Phradis longibasalis* Khalaim, 2007

**Material examined.** **Russia, Primorsky Terr.:** Anisimovka, 43°10'12"N, 132°47'24"E, 29.VI.2014, coll. E. Jendek, 3 females, 1 male (OLML); Gornotaezhnoe, 43°41'24"N, 133°09'36"E, 21–22.V.2016, coll. S.A. Belokobylskij, 3 females (ZIN); Arsen'ev, 44°07'19"N, 133°16'12"E, 200 m a.s.l., 25–26.V.2016, coll. S.A. Belokobylskij, 1 female (ZIN).

**Distribution.** Europe, Russian Far East.

### 41. *Phradis morionellus* (Holmgren, 1860)

**Material examined.** **Belarus, Brest Prov.,** Pruzhany, 10.VII.1962, coll. Samersov, 2 females (ZMUM). **Russia: Moscow Prov.:** W of Moscow, Skorotovo Vill., 30.V.1989, coll. V. Barták, 1 female (OLML); “Kropotovo”, left bank of Oka River, 20.VI.1964, coll. G. Viktorov, 7 females, 6 males (5 females, 5 males in ZMUM; 2 females, 1 male in ZIN); Ruza, 28.VI.1940, coll. Yu. Kostylev, 1 female (ZMUM); Zibrovo, 6–7.VII.1963, coll. G. Viktorov, 1 male (ZMUM); *North Ossetia*, valley of Ardon River, Nuzal Vill., 13.VI.1972, coll. D.R. Kasparyan, 1 female [det. K. Horstmann] (ZIN).

**Remarks.** Horstmann (1981: 18) recorded this species from Caucasus, based on the Leningrad



collection, but without any details. One specimen of *Ph. morionellus* from the Republic of North Ossetia – Alania of Russia, which is stored in the ZIN collection and is provided with the identification label of Horstmann (see *Material examined* section), was examined.

*Distribution.* Europe, Turkey, Kazakhstan, Middle Asia, Russian Far East.

**42. *Phradis nigrifulus*** (Gravenhorst, 1829)

*Material examined.* **Russia:** Voronezh Prov.: Voronezh Nature Reserve, 29.VI.1950, coll. D. Dovnar[-Zapol'skiy], "*Ischnobatis nigrifulus* Szepl. det. D. Dovnar[-Zapol'skiy]", 1 female (ZMUM); same locality and collector, 29.VI.1950, "*Ischnobatis albipennis* Szepl. det. D. Dovnar[-Zapol'skiy]", 1 male (ZMUM); same locality and collector, 6.VII.1949, "*Isurgus monticola* Thoms. det. D. Dovnar[-Zapol'skiy]", 1 female (ZMUM); same locality and collector, 8.VII.1949, "*Phradis minutus* Bridgm. det. D. Dovnar[-Zapol'skiy]", 1 female (ZIN); same locality and collector, 29.VI.1950, "*Phradis minutus* Bridgm. det. D. Dovnar[-Zapol'skiy]", 1 female (ZIN); **Altay Terr.**, 8 km SE of Biysk, Ust'-Katun' Vill., pine forest, 7–8.VII.2007, coll. A.I. Khalaim, 1 female (ZIN).

*Distribution.* Europe, Turkey, Kazakhstan, Mongolia, Siberia, Russian Far East.

**43. *Phradis polonicus*** Horstmann, 1981

*Material examined.* \***Armenia**, Ararat Prov., Khosrov Nature Reserve, Vednetsky Sector, 2.V.1982, coll. V.I. Tolkanitz, 1 female (ZIN).

*Distribution.* Europe, Caucasus, Russian Far East.

**44. *Phradis rufiventris*** Horstmann, 1981

*Material examined.* **Russia**, Moscow Prov., Naro-Fominsk, 8.VII.2009, coll. K. Tomkovich, 1 female (ZIN).

*Remarks.* In the original description, Horstmann (1981: 24–25) reported this species from Ukraine, based on the Leningrad collection, but without any details. Two females of *Ph. rufiventris* from the Lugans'k Province of Ukraine, which are stored in the ZIN collection and are provided with the identification (non-type) labels of Horstmann, were examined.

*Distribution.* Europe, Turkey, Kazakhstan, Siberia.

**45. *Probles (Euporizon) montana***

Horstmann, 1971

*Material examined.* **Crimea**, Crimean Nature Reserve, 29.VII.1936, coll. V. Heptner, 2 females (ZMUM). **Russia**, Chelyabinsk Prov., near Zlatoust, Taganay Mts., 55°13'38"N, 59°47'43"E, 18–24.VII.2008, coll. K. Tomkovich, 3 females (ZMUM).

*Distribution.* Europe.

**46. *Probles (Euporizon) sibirica*** Khalaim, 2007

*Material examined.* **Mongolia**, Töv Aimag, 50 km N of Ulaanbaatar, E of Mandal, river, 1180 m a.s.l., 8–13.VIII.2007, coll. M. Halada, 2 females (OLML). **Russia**, Buryatia, 15 km E of Tunka, Tunka Hills, 51°45'35"N, 102°38'55"E, 845 m a.s.l., 2–3.VIII.2012, coll. A.S. Prosvirov, 2 females, 1 male (ZMUM).

*Distribution.* Mongolia, Siberia, Russian Far East.

**47. *Probles (Euporizon) smaragdites***

Khalaim, **sp. nov.**

(Figs 1–9)

*Holotype.* Female, **Russia**, Primorsky Terr., 10 km SE of Spassk-Dal'niy, forest, clearings, 26.VI.2016, coll. S.A. Belokobylskij (ZIN).

*Paratypes.* **Russia**, Primorsky Terr.: Vladivostok, Sanatarnaya Station, 26.VII.1984, coll. S.A. Belokobylskij, 1 female (ZIN); Vladivostok, Morskoe Cemetery, forest, meadows, 3.VII.1997, coll. S.A. Belokobylskij, 1 male (ZIN).

*Comparative diagnosis.* *Probles smaragdites* **sp. nov.** differs from other Palaearctic species of the subgenus *Euporizon* Horstmann, 1971 by vertex conspicuously impressed posteriorly and occipital carina dipped medially (Fig. 5); as well as by smooth mesopleuron (Fig. 7) and dorsolateral areas of propodeum (Fig. 8). It is also characterised by long lateral longitudinal carinae of scutellum; slender and smooth first tergite with small isolated glymma; and relatively large clypeus (Fig. 4).

*Description.* *Female.* Body length 4.2 mm, fore wing length 3.35 mm.

Head distinctly constricted and rounded behind eyes in dorsal view; gena 0.55 times as long as eye width (Fig. 6). Clypeus lenticular, 2.8 times as broad as high, slightly convex, separated from face by weak furrow, smooth, with fine punctures in upper 0.3–0.4 (Fig. 4). Mandible robust, weakly tapered; upper tooth about as long as lower tooth.

Malar space 0.5–0.7 times as long as basal mandibular width. Antennal flagellum slightly tapered towards apex, with 21–22 flagellomeres (Fig. 1); subbasal flagellomeres 1.3–1.5 times as long as broad (Fig. 3); flagellomeres four to six with subapical finger-shaped structures on outer surface (Fig. 3). Face finely punctate on finely granulate or nearly smooth background. Frons finely and densely punctate on granulate background (punctures mostly indistinct because of granulation). Vertex and gena shallowly granulate, dull to weakly shining, with very fine (sometimes indistinct) punctures. Vertex posteriorly impressed; occipital carina complete, mediodorsally dipped (Fig. 5).

Mesoscutum granulate, dull, with moderately dense fine punctures (Fig. 5). Notaulus with strong wrinkle on anterolateral side of mesoscutum (Fig. 5). Scutellum with lateral longitudinal carinae long, extending from its base to posterior end of scutellum (in holotype, joining posteriorly). Epicnemial carina with upper end abruptly curved and reaching anterior margin of mesopleuron (Fig. 7). Mesopleuron mostly smooth and shining, with very fine and sparse punctures. Foveate groove of mesopleuron deep and long, anteriorly upcurved, with transverse wrinkles (Fig. 7). Propodeum with basal area somewhat widened anteriorly, about twice as long as anteriorly broad (Fig. 8) and 0.7 times as long as apical area; dorsolateral area smooth and shining (Fig. 8); apical area truncated anteriorly, flat, somewhat uneven; apical longitudinal carinae distinct, reaching transverse carina anteriorly. Propodeal spiracle separated from pleural carina by two diameters of spiracle.

Fore wing with second recurrent vein (*2m-cu*) distinctly postfurcal. Metacarpus (*R1*) reaching apex of wing. First abscissa of radius (*Rs+2r*) straight, longer than width of pterostigma. Intercubitus (*2rs-m*) long, slightly thickened, almost as long as abscissa of cubitus between intercubitus and second recurrent vein (abscissa of *M* between *2rs-m* and *2m-cu*). Hind wing with subvertical nervellus (*cu1* and *cu-a*). Legs slender. Tarsal claws very long and thin.

First metasomal tergite slender, about 3.4 times as long as posteriorly broad, entirely smooth; petiole round in cross-section; postpetiole in dorsal view strongly widened, clearly separated from

petiole. Glymma small, situated slightly behind middle of first tergite and joining to ventral part of postpetiole by very shallow (evanescent) furrow. Second tergite 1.1 times as long as anteriorly broad. Thyridial depression distinct, as long as broad (paratype) or slightly elongate (holotype). Ovipositor slender, weakly and evenly upcurved, with dorsal subapical depression and rounded tooth before this depression (Fig. 9); sheath about 1.5 times as long as first tergite.

Body predominantly dark reddish brown, head and mesosoma dorsally blackish (Fig. 1); clypeus yellowish red, mandible (teeth reddish) and mouthparts yellow. Antenna yellowish brown basally to dark brown apically. Tegula reddish brown. Pterostigma brown. Legs brownish yellow, hind coxa slightly darkened with brown.

**Male** (Fig. 2). Flagellum with 21 flagellomeres. Second tergite about twice as long as anteriorly broad. Thyridial depression elongate. Otherwise similar to female.

**Etymology.** The species name is an adjective derived from the Greek and Latin word *smaragdus* (emerald), with the addition of the suffix *-ites*.

**Distribution.** Russian Far East.

#### 48. *Probles (Euporizon) truncorum* (Holmgren, 1860)

**Material examined.** **Russia:** *Moscow Prov.:* Zvenigorod, 23.VI.1948, coll. G. Viktorov, 1 female (ZMUM); SW of Moscow, Moskovsky, 55°34'51"N, 37°20'15"E, yellow pan trap, 26–30.VI.2016, coll. K. Tomkovich, 1 female (ZMUM); *Lipetsk Prov.,* Galich'ya Gora Nature Reserve, 24.VI.1964, coll. E. Antonova, 1 female [det. K. Horstmann] (ZIN).

**Remarks.** Horstmann (1981: 20) recorded this species from "Nordrußland", based on the Leningrad collection, but without any details. One specimen of *P. truncorum* from the Lipetsk Province of Russia, which is stored in the ZIN collection and has the identification label of Horstmann (see *Material examined* section), was examined.

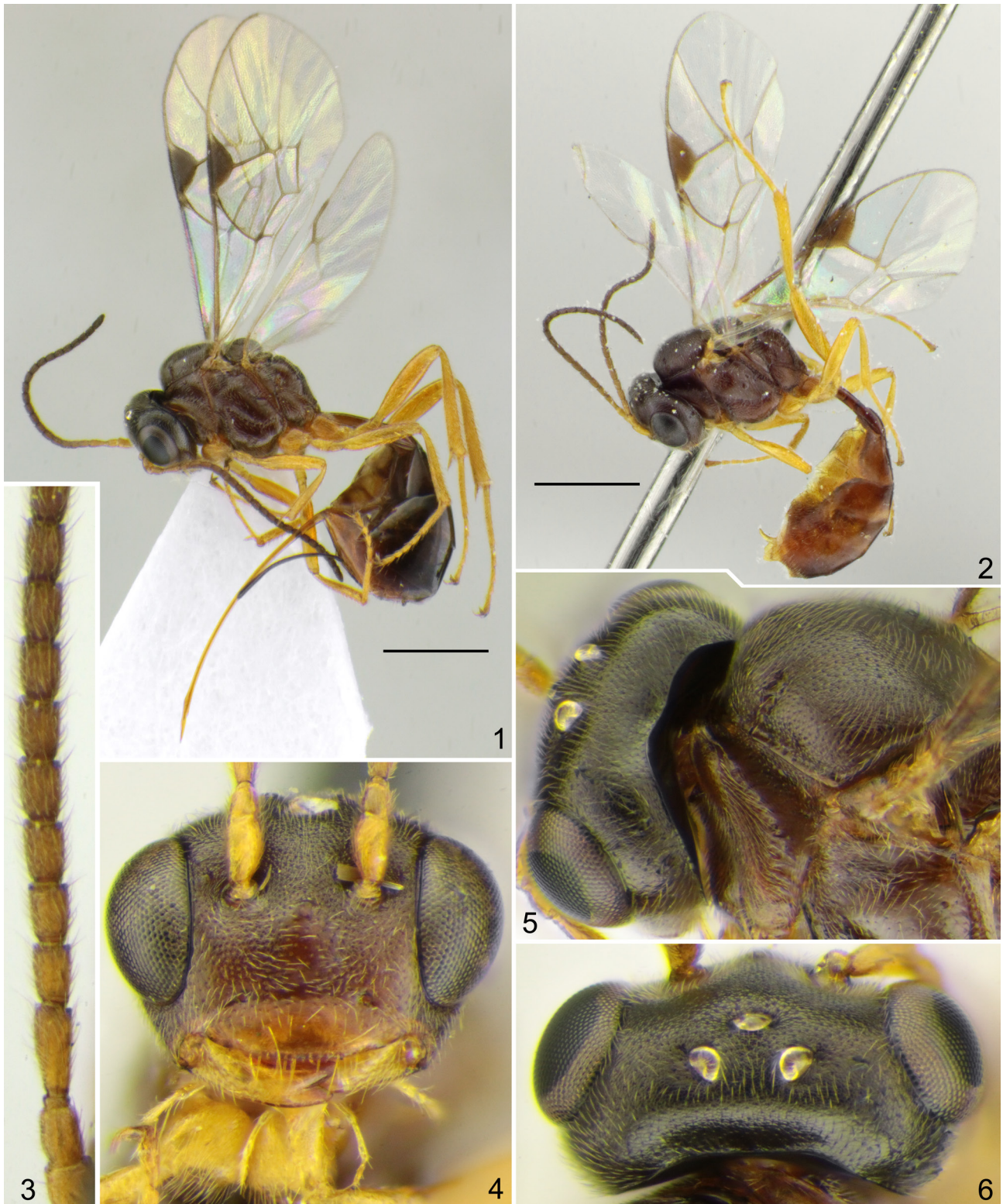
**Distribution.** Europe.

#### 49. *Probles (Microdiaparsis) anatolica* Horstmann, 1981

**Material examined.** \***Georgia,** S of Kutaisi, NW of Zakarskiy Pass, 2000 m a.s.l., 25.VI.2014, coll. Snížek, 1 female (OLML).

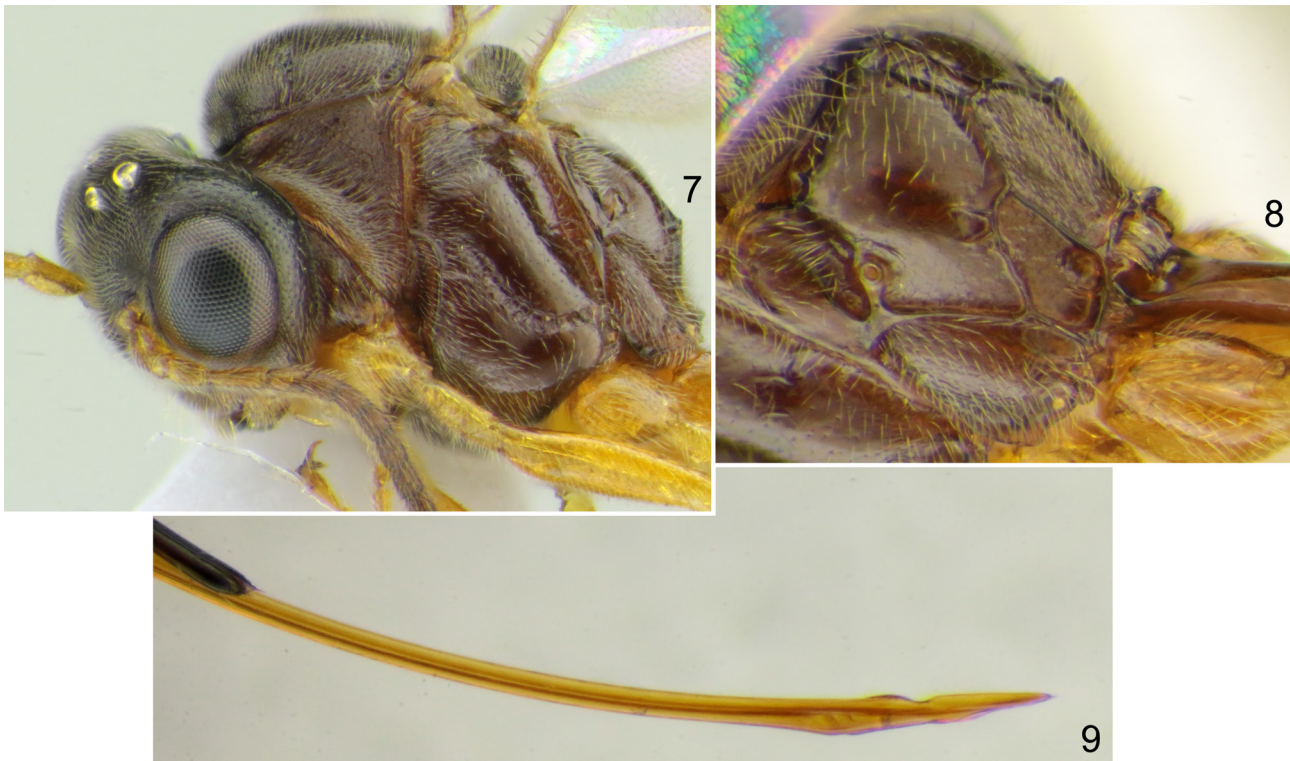
**Distribution.** Caucasus, Turkey.





**Figs 1–6.** *Probles smaragdites* sp. nov., holotype female (1, 5, 6), paratype female (3, 4) and paratype male (2). 1–2, habitus, lateral view; 3, base of antenna, lateral view; 4, head, front view; 5, head and mesoscutum, dorso-postero-lateral view; 6, head, dorsal view. Scale bars: 1.0 mm.





**Figs 7–9.** *Probles smaragdites* sp. nov., holotype, female. 7, head and mesosoma, lateral view; 8, propodeum, dorsolateral view; 9, apex of ovipositor, lateral view.

**50. *Probles (Microdiaparsis) caudiculata***  
Khalaim, 2007

*Material examined.* **Russia:** *Buryatia*, Khamar-Daba Mt. Range, Malaya Bystraya River, 2.VII.1954, coll. A. Rozhkov, 1 female (ZMUM); *Sakhalin Prov.*, *Kuril Is.:* Shiashkotan I., inland SW of Zakatnaya Bay, 48°47'N, 154°02'E, 29.VII.2000, coll. D.J. Bennett, 1 female (TAMU); Kharimkotan I., northwest corner of island, 49°09'N, 154°28'E, 28.VII.2000, coll. D.J. Bennett, 2 females (TAMU).

*Distribution.* Europe, Caucasus, Turkey, Mongolia, Siberia, Russian Far East, China (north).

**51. *Probles (Microdiaparsis) microcephala***  
(Gravenhorst, 1829)

*Material examined.* **Germany, Bavaria,** Allgäu, Oberstdorf, Wihelminemoor, 47°28'51"N, 10°09'22"E, 1352 m a.s.l., Malaise trap, 25.VI–10.VII.2015, coll. D. Doczkal & J. Voith, 1 female (ZSM).

*Distribution.* Europe, Turkey, Iran.

**52. *Probles (Microdiaparsis) neoversuta***  
(Horstmann, 1967)

*Material examined.* **Russia:** *Moscow Prov.*, Podol'sk, near Pakhra River, 55°26'53"N, 37°33'47"E,

yellow pan trap, 29.VIII.–2.IX.2011, coll. K. Tomkovich, 1 female (ZMUM); *Kaluga Prov.*, Tarussa [Tarusa], 26.VIII.1952, coll. Plavilshchikov, 1 female (ZMUM); *Ul'yanovsk Prov.*, Sengiley Distr., near Shilovka Vill., 54°00'36"N, 48°41'24"E, yellow pan trap, 1–3.IX.2010, coll. K. Tomkovich, 1 female (ZMUM); *Bashkortostan*, Abzakovo – Murakaevo, E of Kryktytau Mts., birch, steppe, 2–8.VIII.2008, coll. K. Tomkovich, 1 male (ZMUM).

*Distribution.* Europe, Turkey, Russian Far East.

**53. *Probles (Microdiaparsis) versuta***  
(Holmgren, 1860)

*Material examined.* **Czech Republic, Bohemia South,** Sumava Mts., Jezerní slat' peatbog, 1060 m a.s.l., community of *Pinus mugo*, *Betula nana* and *Vaccinium uliginosum*, 11.VIII.2005, coll. A. Lozan, 1 female, 1 male (ZIN). **Russia, Sakhalin Prov., Kuril Is.:** Kunashir I., Kosmodem'yanskaya Bay, 44°06'N, 145°54'E, 6.IX.1997, coll. Yu. Marusik, 1 female (TAMU); Polonskogo I., inland from western side, 43°38'N, 146°19'E, 21.VIII.1999, coll. D.J. Bennett, 1 female (TAMU).

*Distribution.* Europe, Turkey, Russian Far East.

54. ***Probles (Probles) flavipes*** (Szépligeti, 1889)

*Material examined.* \*Russia, Kaluga Prov., Tarussa [Tarusa], 8.VIII.1958, coll. Plavilshchikov, 1 female (ZMUM).

*Distribution.* Europe, Turkey.

55. ***Spinolochus agilis*** (Holmgren, 1860)

*Material examined.* Russia: Murmansk Prov., Murmansk, 68°57'N, 33°06'E, 9–13.VIII.2010, coll. N. Vikhrev, 1 female (ZMUM); Sakhalin Prov., Kuril Is.: Matua I., inland from Dvoinaya Bay, 48°04'N, 153°15'E, 3.VIII.1999, coll. D.J. Bennett, 3 females (TAMU); Ekarma I., E of Cape Shpilevoy, 48°58'N, 153°55'E, 10.VIII.1996, coll. B.K. Urban, 1 female (TAMU).

*Distribution.* North America, Europe, ?Iran, Middle Asia, Mongolia, Siberia, Russian Far East.

56. ***Spinolochus laevifrons*** (Holmgren, 1860)

*Material examined.* Russia: Tyumen Prov., Khanty-Mansi Autonomous Region, Lyamin River, 61°43'48"N, 71°01'48"E, 75 m a.s.l., 21.VII.2010, coll. K. Tomkovich, 1 female (ZMUM); Sakhalin Prov., Kuril Is.: Matua I., inland from Dvoinaya Bay, 48°04'N, 153°15'E, 3.VIII.1999, coll. D.J. Bennett & B.K. Urbain, 3 females, 3 males (TAMU); Onkotan I., 49°17'N, 154°45'E, 9.VIII.1996, coll. B.K. Urbain, 1 female (TAMU).

*Distribution.* North America, Europe, Middle Asia, Russian Far East, Japan.

57. ***Tersilochus (Gonolochus) caudatus*** (Holmgren, 1860)

*Material examined.* France, "Touraine Desbrochers", coll. Desbrochers, N. Kokujev collection, 1 female (ZIN). Germany, Bavaria: Allgäu, Kempten, Kempter Wald Blauseemoos, 47°40'21"N, 10°28'56"E, 880 m a.s.l., Malaise trap, 28.V.–10.VI.2015, coll. D. Doczkal & J. Voith, 1 female (ZSM); N of Bopfingen, Ipf Mt., 48°52'12"N, 10°21'25"E, 580–560 m a.s.l., 3.V.2016, coll. A.I. Khalaim, 7 females, 2 males (ZIN); S of Oggelshausen, Wildes Ried, 580 m a.s.l., 48°02.2'N, 09°38.7'E, 5.V.2016, coll. A.I. Khalaim, 1 female, 1 male (ZIN); SW of Heubach, Scheuelberg, 600–720 m a.s.l., meadows, forest, 48°46.8'N, 9°54.9'E, 6.V.2016, coll. A.I. Khalaim, 8 females, 3 males (ZIN).

*Remarks.* General distribution of this species is given after Khalaim & Tereshkin (2019).

*Distribution.* Widespread in Palaearctic Region. Europe, Caucasus, Turkey, Kazakhstan, Middle Asia, Mongolia, Siberia, Russian Far East, Republic of Korea.

58. ***Tersilochus (Pectinolochus) acutangulus*** Khalaim, 2007

*Material examined.* Russia, Tuva, Turan, floodlands, Turanchik River, 3.VI.1975, coll. D.R. Kasparyan, 1 female (ZIN).

*Remarks.* Record of *T. (P.) kerzhneri* Khalaim, 2007 from Finland and Russian Karelia (Khalaim & Várkonyi, 2018: 182) actually belongs to *T. acutangulus*. Thus, *T. kerzhneri* is excluded here from the fauna of Europe.

*Distribution.* Europe (north), Mongolia, Siberia, Russian Far East.

59. ***Tersilochus (Pectinolochus) asper*** Horstmann, 1981

*Material examined.* \*Kazakhstan: Akmola Prov., Kokshetau Mts., 21.V.1957, coll. V.I. Tobias, 1 female (ZIN); Karaganda [Qaraghandy] Prov., 40 km S of Zhanaarka Station, Mt. Koksengir, 3.V.1959, coll. V.I. Tobias, 1 female (ZIN); South Kazakhstan [Turkistan] Prov.: 15 km NE of Achisay, 1000–1300 m a.s.l., 11–13.V.1994, coll. D.A. Milko, 1 female (ZIN); Pskem Mt. Range, near Nanai [north of Nanai?], 3000 m a.s.l., 23.V.1963, coll. V.I. Tobias, 4 females, 1 male (ZIN); East Kazakhstan Prov., 45 km SSW of Semipalatinsk [Semey], Semeytau Mt., on blooming snowdrops, 1.V.1961, coll. V.I. Tobias, 5 females, 4 males (ZIN). \*Uzbekistan, Samarkand Prov., Kara-Tepa Mt. Range, Takhtakaracha Pass, 7–8.V.1982, coll. S.A. Belokobyl'skij, 1 female (ZIN).

*Distribution.* Europe, Kazakhstan, Middle Asia.

60. ***Tersilochus (Pectinolochus) coelioidicola*** (Silvestri, 1917)

*Material examined.* Mongolia, Dornod Aimag: 32 km SE of Salkhit Mt., Numregin River [46°58'N, 119°18'E], forest-steppe, 14–16.VI.1976, coll. M.A. Kozlov, 4 females (ZIN); 30 km ENE of Tsagan-Ula [Tsagaan Ulaa] Mt., Modon-Obo Mt. [46°30'N, 116°26'E], 20.VI.1976, coll. I.M. Kerzhner, 1 female (ZIN). Russia: Leningrad Prov., 8 km N of Pushkin, 16th km, 17.V.1987, coll. D.R. Kasparyan, 1 female (ZIN); Yaroslavl Prov., Yaroslavl, 7.V.1899, N. Kokujev collection, 1 female (ZIN); Ulyanovsk Prov., Ulyanovsk, left bank of Volga River, Verkhnyaya Terrace Station, 80 m a.s.l., 14.VIII [year illegible], coll. Z.A. Yefremova, 1 female (ZIN); Rostov Prov., 20 km W of Zavetnoe, Sal River, 17.V.1986, coll. D.R. Kasparyan, 1 female (ZIN); Jewish Autonomous Prov., Amurzet, oak forest, 18.VI.1985, coll. D.R. Kasparyan,

1 female (ZIN); *Khabarovsk Terr.*, Khekhtsy Range, 18th km, 13.VI.1985, coll. D.R. Kasparyan, 1 female (ZIN). \***Ukraine**, *Mykolaiv Prov.*, Black Sea Nature Biosphere Reserve, Volyzhin Forest [W of Vasilevka Vill., 46°32'N, 31°43'E], 21.V.1974, coll. V.V. Kostyukov, 1 female (ZIN).

*Distribution.* Europe, Mongolia, Russian Far East.

**61. *Tersilochus (Pectinolochus) ensifer***  
(Brischke, 1880)

*Material examined.* \***Lithuania**, “Vil... Kalu...” [handwritten, illegible text], 1.V.1973, coll. A. Jakimavičius, 1 female (ZIN). **Russia**: *Leningrad Prov.*, 8 km N of Pushkin, 16th km, 17.V.1987, coll. D.R. Kasparyan, 1 female (ZIN); *Stavropol Terr.*, Kislovodsk, Kurortnyy Park, meadow, forest, 27.IV.2018, coll. S.A. Belokobylskij, 1 female (ZIN). \***Ukraine**: *Kyiv Prov.*, Kyiv, 21.IV.1900, coll. Yu. Vagner, 1 female (ZIN); *Poltava Prov.*, Poltava, 20.IV.1914, coll. A.A. Ogloblin, 1 female (ZIN).

*Remarks.* The species was recently recorded from southern Finland and Russian Karelia (Khalaim & Várkonyi, 2018: 181).

*Distribution.* Europe.

**62. *Tersilochus (Pectinolochus) hungaricus***  
Horstmann, 1981

*Material examined.* **Ukraine**, *Donets'k Prov.*, NNE of Amvrosievka, Yasenevoe, forest, 15.V.1974, coll. D.R. Kasparyan, 1 female [det. K. Horstmann] (ZIN).

*Remarks.* In the original description, Horstmann (1981: 43–44) recorded this species from Ukraine, based on the Leningrad collection, but without any details. One specimen of *T. hungaricus* from the Donets'k Province of Ukraine, which is stored in the ZIN collection and is provided with the identification (non-type) label of Horstmann, was examined.

*Distribution.* Hungary, Ukraine.

**63. *Tersilochus (Pectinolochus) intermedius***  
Horstmann, 1981

*Material examined.* **Russia**, *Yaroslavl Prov.*, “Gedenowo”, “Dan. [former Danilov Uezd]”, 27.V.1918, coll. A. Schestakow, 1 female (ZIN).

*Remarks.* The species was recently recorded from Russian Karelia (Khalaim & Várkonyi, 2018: 182).

*Distribution.* Ukraine (east), Russia (Republic of Karelia, Yaroslavl Province).

**64. *Tersilochus (Pectinolochus) lapponicus***  
Hellén, 1958

*Material examined.* \***Georgia**, Georgian Military Road, Krestovyy Pass, 2150 m a.s.l., 23.V.1967, coll. D.R. Kasparyan, 1 female (ZIN). \***Lithuania**, N of Vilnius, Visoriai, 28.V.1999, coll. V. Jonaitis, 1 female (ZIN). **Russia**: *Leningrad Prov.*, 52 km S of St Petersburg, Susanino., 13.V.1990, coll. D.R. Kasparyan, 1 female (ZIN); *Novgorod Prov.*, 20 km NW of Pestovo, Tychkino Vill., 1.VI.1993, coll. V.I. Tobias, 1 female (ZIN); *Stavropol Terr.*, Kislovodsk, road to Bol'shoe Sedlo Mt., meadow, forest, 1.V.2018, coll. S.A. Belokobylskij, 1 female (ZIN).

*Remarks.* The species was recently recorded from Finland and the Murmansk Province of Russia (Khalaim & Várkonyi, 2018: 182).

*Distribution.* Europe, Caucasus.

**65. *Tersilochus (Pectinolochus) luteicornis***  
(Hellén, 1958)

*Material examined.* **Russia**, *Leningrad Prov.*, 55 km S of St Petersburg, 4 km W of Krasnitsy, aspen forest, Malaise trap, 24–31.V.2008, coll. D.R. Kasparyan, 2 females (ZIN).

*Remarks.* The species was recently recorded from Finland and Russian Karelia (Khalaim & Várkonyi, 2018: 182).

*Distribution.* Europe.

**66. *Tersilochus (Pectinolochus) rossicus***  
Horstmann, 1981

*Material examined.* \***Kazakhstan**, *West Kazakhstan Prov.*, Khar'kin [Khar'kino], lower Ural River, 12.V.1951, coll. Rudolf, 1 female (ZIN). **Ukraine**, *Lugans'k Prov.*, 3 km NW of Anratsyt, forest, 10.V.1974, coll. D.R. Kasparyan, 3 females (ZIN).

*Distribution.* Ukraine, Kazakhstan (west).

**67. *Tersilochus (Pectinolochus) spiracularis***  
Horstmann, 1971

*Material examined.* \***Kazakhstan**, *Akmola Prov.*, [without locality], 15.V.1942, coll. B. Kuzin, 2 females (ZMUM). \***Latvia**, Bausk, on willow, 4.V.1954, coll. V. Negrobov, 2 females (ZIN). **Russia**: *Leningrad Prov.*: 43 km S of St Petersburg, Semrino, 8.V.1983, coll. D.R. Kasparyan, 1 female (ZIN); 8 km N of Pushkin, 16th km, 17.V.1987, coll. D.R. Kasparyan, 2 fe-



males (ZIN); “St Petersburg Governorate”, on willow, 20.IV.1897, coll. Pomerantsev, N. Kokujev collection, 2 females (ZIN); south of Leningrad Prov. [without locality], on willow flowers, 7.V.1972, coll. V.A. Trjapitzin, 3 females, 1 male (ZIN); *Moscow Prov.*: SW of Moscow, Moskovsky, 55°34'44"N, 37°20'30"E, 25.IV.2016, coll. K. Tomkovich, 1 female (ZIN); Mikhnevo, 1.V.1962, coll. E. Antonova, 1 female [det. K. Horstmann; examined in ZMUM, deposited in ZIN]; Mytishchi, 2.V.1933, coll. G. Kostylev, 1 female (ZMUM); *Yaroslavl Prov.*, Yaroslavl, N. Kokujev collection, 1 female (ZIN).

*Remarks.* Horstmann (1981: 21) recorded this species from “Mittelrußland”, based on the collection of Viktorov, but without any details. One specimen of *T. spiracularis* from the Moscow Province of Russia, which is stored in the ZMUM collection and is provided with the identification label of Horstmann (see *Material examined* section), was examined.

The species was recently recorded from Finland, Russian Karelia and the Leningrad Province of Russia. (Khalaim & Várkonyi, 2018: 183).

*Distribution.* Europe, Kazakhstan.

#### 68. *Tersilochus (Pectinolochus) striola* (Thomson, 1889)

*Material examined.* \***Lithuania:** N of Vilnius, Vistoriai, 28.V.1999, coll. V. Jonaitis, 1 female (ZIN); Avižieniai, 27.IV.1977, coll. V. Jonaitis, 1 female, 2 males (ZIN). **Russia:** *Leningrad Prov.*: St Petersburg, 3 females, 1 male (ZIN); 43 km S of St Petersburg, Semrino, 6.VI.1981, coll. D.R. Kasparyan, 1 female (ZIN); same data, but 8.V.1983, 3 females, 8 males (ZIN); N of St Petersburg, Sosnovo, 13.V.1984, coll. D.R. Kasparyan, 2 females (ZIN); Vyborg Distr., Privetninskoe, on birch, 2.V.1990, coll. A. Matov, 1 female (ZIN); SE of St Petersburg, Nevsky Forest Park, 8.V.1983, coll. S.A. Belokobylskij, 2 females (ZIN); *Yaroslavl Prov.*, “Yarosl.”, 24.IV.1944, coll. “Kom...”, N. Kokujev collection, 1 female (ZIN); *Moscow Prov.*: Pushchino, near Tulchino, 54°49'44"N 37°41'28"E, yellow pan trap, 22–24.IV.2016, coll. K. Tomkovich, 1 female (ZMUM); Orekhovo-Zuevo Distr., Station of 73rd km, on fir-trees, 8.IV.2004, coll. K. Tomkovich, 2 females (ZMUM); Podol'sk, Grivno Station, 16.V.2004, coll. K. Tomkovich, 1 female (ZIN); *Voronezh Prov.*, Voronezh Nature Reserve, 19.IV.1949, coll. D. Dovnar[-Zapol'skiy], “*Diaparsis rufipes* Holmg. det. D. Dovnar[-Zapol'skiy]”, 1 female (ZMUM); *Stavropol Terr.*, Kislovodsk, road to Bol'shoe Sedlo Mt., meadow, forest, 1.V.2018, coll. S.A. Belokobylskij, 1 female

(ZIN); *Yakutia:* 40 km SSW of Yakutsk, Tekhtyur [Tyokhtyur], on willow, V.1976, coll. Vinokurov, 2 females (ZIN); same locality, steppe, 25.V.1976, coll. Vinogradov, 1 female (ZIN); *Sakhalin Prov.*, Sakhalin I., Yuzhnosakhalinsk, 27.V.1973, coll. I.M. Kerzhner, 2 females (ZIN); *Magadan Prov.*, 50 km N of Magadan, on willow, 24.VI.1975, coll. V. Marshakov, 2 females (ZIN); *Kamchatka Terr.*: Klyuchevskoe Vill, Kamchatka River, 5.VI.1909, coll. A. Derzhavin, 2 females, 1 male (ZIN); Avachinsky Volcano, 1000 m a.s.l., tundra, 26–27.VII.1985, coll. D.R. Kasparyan, 20 females (ZIN). \***Ukraine, Kyiv Prov.**: “Spartak” [? Station NW of Kyiv], 16.V.2003, coll. A.G. Kotenko, 1 female (ZIN); Kyiv, “O.K. Kiril. Kladbishche [Kirillovskoe Cemetery]”, on *Salix caprea* L., 31.III.1917, coll. “V. Alek.”, 5 females, 2 males (ZIN).

*Distribution.* North America, Europe, ?Iran, Siberia, Russian Far East.

#### 69. *Tersilochus (Pectinolochus) terebrator* (Horstmann, 1971)

*Material examined.* **Russia:** *Leningrad Prov.*, [St Petersburg], Smolenskoe Cemetery, 1.V.1903, coll. Jacobson & Zubov, 1 female (ZIN); *Primorsky Terr.*, Kedrovaya Pad' Nature Reserve, 1.V.1974, coll. Zhiltsova, 1 female (ZIN); *Magadan Prov.*, 50 km N of Magadan, on *Chosenia*, 25.VI.1975, coll. V. Marshakov, 1 female (ZIN).

*Distribution.* Europe, Russian Far East.

#### 70. *Tersilochus (Tersilochus) cognatus* (Holmgren, 1860)

*Material examined.* **Armenia, Syunik Prov.**, Meghri Municipality., Gudemis, 1500–2000 m a.s.l., oak forest, 20.VI.1981, coll. A.G. Kotenko, 1 female (ZIN). \***Azerbaijan, Abscheron [Abyeron] Distr.**, 1200–1400 m a.s.l., 30.V.1981, coll. A.G. Kotenko, 1 female (ZIN). **Crimea:** Crimean Nature Reserve, Al'ma River, 27.VI.1976, coll. A.G. Kotenko, 1 female (ZIN); S of Dobroe, Krasnolesye, 13.VI.1990, coll. D.R. Kasparyan, 1 female (ZIN). **Czech Republic, South Bohemia,** near České Budějovice, Černiš wetland, 1.V.2002, coll. A. Lozan, 3 females (ZIN). **Germany, Bavaria,** S of Oggelshausen, Wildes Ried, 580 m a.s.l., 48°02.2'N, 09°38.7'E, 5.V.2016, coll. A.I. Khalaim, 6 females, 5 males (ZIN). **Hungary:** Kétvölgy, 18.V.2001, coll. A.G. Kotenko, 1 female (ZIN); Kőszeg, forest, 19.V.2001, coll. A.G. Kotenko, 3 females (ZIN). \***Kazakhstan, West Kazakhstan Prov.**, 10 km SE of Mirgorodka, Aktau, 30.V.1986, coll. D.R. Kasparyan, 3 females (ZIN). **Lithuania,** “W. Russland Jurburg Winogradoff-Nikitin.” [Jurbarkas], 1 female (ZIN).

**Russia:** *Kaliningrad Prov.:* Curonian Spit, 34th km, Biological Station “Rybachy”, bay, 23–28.V.2001, coll. A.I. Khalaim, 3 females, 3 males (ZIN); Curonian Spit, 7th km [between Zelenogradsk and Lesnoy], 11.V.1991, coll. A.R. Manukyan, 1 male (ZIN); *Karelia:* Kon, Malyy Lelikovskiy I., 61°98'N, 35°16'E, meadows, 1.VII.2017, coll. A.E. Humala, 1 male (HUM); Kol, Petrozavodsk, 21.VI.2006, coll. A.E. Humala, 1 female (ZIN); *Leningrad Prov.:* 70 km N of St Petersburg, Sosnovo, coll. D.R. Kasparyan (all in ZIN): 9.V.1990 (2 females, 3 males), 2–4.VI.1973 (5 females, 1 male [of them 3 females, det. K. Horstmann]), 8.VII.1987 (1 female), 11–17.VII.2009 (1 female); 19 km S of St Petersburg, near Pushkin, 29.V.1984, coll. D.R. Kasparyan, 6 females, 1 male (ZIN); same data, but 20.VI.1973, 1 female [det. K. Horstmann] (ZIN); NE of St Petersburg, Murino, 12.VI.1983, coll. S.A. Belokobylskij, 2 females (ZIN); same data, but 12.VI.1991, 1 female (ZIN); NW of St Petersburg, Roshchino, mixed forest, 15.VI.1991, coll. S.A. Belokobylskij, 1 female (ZIN); 40 km S of St Petersburg, Kobralovo, 17.VI.1984, coll. D.R. Kasparyan, 1 female (ZIN); 50 km S of St Petersburg, 7.VII.1969, coll. D.R. Kasparyan, 1 female (ZIN); 55 km S of St Petersburg, 4 km W of Krasnitsy, aspen forest, Malaise trap, 9–23.V.2008, coll. D.R. Kasparyan, 3 females (ZIN); same data, but 24–31.V.2008, 9 females, 2 males (ZIN); St Petersburg, Vasilevskiy I., Smolenskoe Cemestry, 26.V.1991, coll. A. Matov, 1 male (ZIN); *Novgorod Prov.:* 20 km NW of Pestovo, Tychkino Vill., coll. V.I. Tobias (all in ZIN): 8–10.VII.1990 (1 female), 27.V.–18.VI.1991 (6 females, 1 male), 1.VI.–2.VII.1993 (26 females), 7.VI.2000 (1 female), 7.VI.2001 (1 female); *Smolensk Prov.:* Smolenskoye Poozer'e National Park, 10–15.VI.1993, coll. D.R. Kasparyan, 20 females (ZIN); *Yaroslavl Prov.:* Yaroslavl, V–VII.1995–1996, N. Kokujev collection, 23 females, 4 males [6 females, 2 males, det. K. Horstmann] (ZIN); Berditsyno [20 km SE of Yaroslavl], 25.V.1896, N. Kokujev collection, 1 female (ZIN); “Gedenowo. Jarosl. Dan. [Yaroslavl, former Danilov Uezd] 9.VII.1916. A. Schestakow”, 2 females (ZIN); “Zhedenovo, Dan. u. [former Danilov Uezd]”, 10.V.1914, coll. A. Schestakow, 1 female (ZIN); *Nizhny Novgorod*, Volchikha, “Gorbatovsk. u. [former Gorbatovskiy Uezd]”, 7–14.VI.1894, coll. Jacobson, 1 female (ZIN); *Moscow Prov.:* SW of Moscow, Moskovsky, 55°35'17"N, 37°19'59"E, yellow pan trap, 17–21.V.2014, coll. K. Tomkovich, 1 female (ZMUM); same data, but 55°34'51"N, 37°20'15"E, 10–15.VI.2016, 1 female (ZMUM); SE of Moscow, Tsaritsyno Park, 19.V.2005, coll. K. Tomkovich, 1 male (ZMUM); Chekhovo Distr., Petruhovo, garden, 18–21.VI.2003, coll. K. Tomkovich, 1 male (ZIN); SE of Moscow, 27.VI.2005, coll. K. Tomkovich, 1 female (ZIN); E of Moscow, Fryazevo, 20.VII.–30.VIII.2001, coll. M.E. Tret'yakov, 1 female (ZIN); Orekhovo-Zuevo, 23.V.1989,

coll. V. Barták, 1 male (OLML); Losiny I., 26.V.1989, coll. V. Barták, 2 females, 1 male, 1 specimen [metasoma absent, sex unknown] (OLML); Abramcevo, 28.V.1989, coll. V. Barták, 1 female (OLML); W of Moscow, Skorotovo, 30.V.1989, coll. V. Barták, 9 males (OLML); *Kursk Prov.:* Central Chernozemnyy [Black Earth] Nature Reserve, Streletskaya Step' [steppe], 5–10.V.2008, coll. K. Tomkovich, 1 male (ZIN); *Voronezh Prov.:* Voronezh Nature Reserve, 27.IV.1950, coll. D. Dovnar[-Zapol'skiy], “*Thersilochus triangularis* Gr. det. D. Dovnar[-Zapol'skiy]”, 1 female (ZMUM); same locality and collector, 7.V.1950, “*Thersilochus jocator* Gr. det. D. Dovnar[-Zapol'skiy]”, 1 male (ZMUM); same locality and collector, 14.[month illegible].1950, “*Thersilochus truncorum* Holmgr. det. D. Dovnar[-Zapol'skiy]”, 1 female (ZMUM); *Astrakhan Prov.:* Baskunchak Salt Lake, 48°10'01"N, 46°49'48"E, semi-desert, 3–6.V.2010, coll. K. Tomkovich, 1 male (ZMUM); *Krasnodar Terr.:* Lago-Naki Plateau, 44°05'56"N, 39°59'38"E, 1700 m a.s.l., 6–8.V.2013, coll. N.E. Vikhrev, 1 male (ZMUM); Gelendzhik, 3.V.1957, coll. G. Viktorov, 1 female (ZMUM); *Stavropol Terr.:* Shpakovsky Distr., Sengileevskoe reservoir, 3.V.2011, coll. A.S. Ukrainsky, 1 female (ZMUM); 10–15 km NW of Shpakovskoe [Mikhaylovsk], 4.VI.1987, coll. S.A. Belokobylskij, 1 female (ZIN); 20 km SW of Kislovodsk, Medovye Waterfalls, 20.V.2009, coll. D.R. Kasparyan, 5 females, 7 males (ZIN); *Karachay-Cherkessia:* Arkhyz, valley of Kizgych River, 1.VII.1976, coll. D.R. Kasparyan, 1 female (ZIN); Teberda, 1300 m a.s.l., broadlived forest, 25–30.V.2009, coll. D.R. Kasparyan, 2 females, 1 male (ZIN); *Ingushetia*, Nesterovskaya Stanitsa, 9.VI.1972, coll. D.R. Kasparyan, 1 female [“*T. jocator*”, det. K. Horstmann] (ZIN); *Sverdlovsk Prov.:* W Ekaterinburg, Verkh-Issety Distr., 12.V.2005, coll. T.S. Kostromina, 2 males (ZIN); Ekaterinburg, 20.IV.2005, coll. P. Rudoiskatel', 1 female (ZIN); *Chelyabinsk Prov.:* Ilmen' Nature Reserve, Bol'shoe Miassovo Lake, 21.VI.1983, coll. A.G. Kotenko, 1 female (ZIN); *Omsk Prov.:* Omsk, 54°51'36"N, 73°21'36"E, 23.V.2012, coll. O. Kosterin, 1 female (ZMUM); *Altay Terr.:* 8 km SE of Biysk, Ust'-Katun', pine forest, 7–8.VII.2007, coll. A.I. Khalaim, 1 female (ZIN); *Altai Republic*, Turochak Distr., 13–15 km along Lebed' River, 18.VI.1999, coll. A.G. Kirejtsuk, 1 female (ZIN). \***Slovakia**, 12 km NE of Bratislava, Šúr Nature Reserve, 30.VI.1991, coll. D.R. Kasparyan, 1 female (ZIN). **Sweden**, Öland I., Skogsby, forest, meadows, 26.V.2011, coll. D.R. Kasparyan, 3 females (ZIN). **Ukraine:** *Zakarpats'ka Prov.:* Beregove Distr., meadow in oak forest, 23.V.1983, coll. Boganich, 1 female (ZIN); *Ternopil' Prov.:* Medobori Nature Reserve, Gorodnitskoe Forestry, right bank of Zbruch River, forest, 25.V.1984, coll. V.I. Tolkanitz, 1 female (ZIN); *Odessa Prov.:* Izmail Distr., W of Yalpuh Lake, Plavni Vill.,

11.V.1979, coll. A.G. Kotenko, 1 female (ZIN); *Kyiv Prov.*: NNE of Kyiv, Novosilky Vill., 4.V.1984, coll. A.G. Kotenko, 1 female (ZIN); SW of Kyiv, Fastiv, 11.V.2003, coll. A.G. Kotenko, 1 female (ZIN); S of Kyiv, Feofaniya Park, 3.VI.1992, coll. A.G. Kotenko, 1 female (ZIN); S of Kyiv, Teremky, 8.VI.2009, coll. D.R. Kasparyan, 1 female (ZIN); *Poltava Prov.*, Myrgorod, 19.V.1984, coll. A.G. Kotenko, 1 female (ZIN); *Kherson Prov.*, Black Sea Biosphere Reserve, WSW of Golaya Pristan', 2.VI.1974, coll. D.R. Kasparyan, 1 female ["*T. jocator*", det. K. Horstmann] (ZIN); *Donets'k Prov.*: SE of Debal'tseve, Ol'khovatika Vill., forest, 11.V.1974, coll. D.R. Kasparyan, 1 female ["*T. jocator*", det. K. Horstmann] (ZIN); 45 km N of Mariupol', 20.V.1974, coll. D.R. Kasparyan, 1 female (ZIN); NW of Amvrosievka, forest, 15.V.1974, coll. D.R. Kasparyan, 1 female ["*T. jocator*", det. K. Horstmann] (ZIN); NNE of Amvrosievka, Blagodatnoe Vill., forest, 15.V.1974, coll. D.R. Kasparyan, 1 male (ZIN); Novozovsk Distr., Khomutovskaya Step' Nature Reserve, 27.IV.1978, coll. A.G. Kotenko, 1 male (ZIN); *Lugans'k Prov.*: 15 km E of Sverdlovsk, Provalska Step' [steppe] Nature Reserve, 5–6.V.1974, coll. D.R. Kasparyan, 7 females, 1 male [5 females, 1 male, "*T. jocator*", det. K. Horstmann] (ZIN); 3 km NW of Anratsyt, forest, 1–10.V.1974, coll. D.R. Kasparyan, 4 females, 1 male [3 females, 1 male, "*T. jocator*", det. K. Horstmann] (ZIN); "Nizhnyaya Ilyenka", right bank of Derkul River, 2.V.1978, coll. A.G. Kotenko. **United Kingdom**, *East Midlands*, Derbyshire, Clough Wood, 10.VII.1996, coll. A. Tereshkin, 1 male (ZIN).

*Remarks.* Horstmann (1981: 22) recorded this species (as *T. jocator*) from "Mittel- und Südrußland", Ukraine and Caucasus, based on the Leningrad collection, but without any details. Twenty six specimens of *T. cognatus* from the Republic of Ingushetia, Leningrad and Yaroslavl provinces of Russia, and the Donets'k, Kherson and Lugans'k provinces of Ukraine, which are stored in the ZIN collection and is provided with the identification labels of Horstmann (see *Material examined* section), were examined.

*Distribution.* Europe, Caucasus, Turkey, Kazakhstan, Western Siberia.

#### 71. *Tersilochus (Tersilochus) curvator* Horstmann, 1981

*Material examined.* **Russia**, *Moscow Prov.*, "Maykov", 24.V.1936, coll. Y. Kostylev, 1 female (ZMUM).

*Distribution.* Europe, China (Qinghai), Russian Far East.

#### 72. *Tersilochus (Tersilochus) filicornis* (Thomson, 1889)

*Material examined.* **Ukraine**, *Lugans'k Prov.*, 15 km E of Sverdlovsk, Provalska Step' [steppe] Nature Reserve, 5.V.1974, coll. D.R. Kasparyan, 1 female [det. K. Horstmann] (ZIN).

*Remarks.* Horstmann (1981: 21) recorded this species from Ukraine, based on the Leningrad collection, but without any details. One specimen of *T. filicornis* the Lugans'k Province of Ukraine, which is stored in the ZIN collection and have the identification label of Horstmann (see *Material examined* section), was examined.

*Distribution.* Europe.

#### 73. *Tersilochus (Tersilochus) fulvipes* (Gravenhorst, 1829)

*Material examined.* \***Armenia**, *Syunik Prov.*, 8 km E of Ordubad, 20.IV.1982, coll. D.R. Kasparyan, 1 female (ZIN). \***Russia**: *Rostov Prov.*, left bank of Don River, in front of Konstantinovsk, 16.V.1986, coll. D.R. Kasparyan, 1 female (ZIN); *Stavropol Terr.*, 10 km SE of Georgievsk, 14.V.1974, coll. D.R. Kasparyan, 1 female ["*Tersilochus ? fulvipes*", det. K. Horstmann] (ZIN); *Karachay-Cherkessia*, Teberda, 1300 m a.s.l., broadleaf forest, 30.V.2009, coll. D.R. Kasparyan, 2 females (ZIN); *Sakhalin Prov.*, *Kuril Is.*, Kunashir I., Yuzhno-Kuril'sk, 11.VII.1973, coll. D.R. Kasparyan, 1 female (ZIN); same island, "4 km above river", 12.VI.1976, coll. Anufriev, 1 female (ZIN).

*Distribution.* Europe, Caucasus, Russian Far East.

#### 74. *Tersilochus (Tersilochus) grandiculus* Khalaim, 2012

*Material examined.* **Russia**: *Jewish Autonomous Prov.*: Amurzet, airport, 16.VI.1985, coll. D.R. Kasparyan, 1 female, 1 male (ZIN); 20 km NW of Amurzet, steppe slopes, 17.VI.1985, coll. D.R. Kasparyan, 1 male (ZIN); Amurzet, oak forest, 18.VI.1985, coll. D.R. Kasparyan, 6 females, 2 males (ZIN); *Primorsky Terr.*: Kedrovaya Pad' Nature Reserve, broadleaf forest, meadows, 4.IX.1982, coll. I.M. Kerzhner, 1 female (ZIN); 30 km SW of Slavyanka, Andreevka Vill., forest, meadows, 26.VIII.2003, coll. S.A. Belokobylskij, 1 female (ZIN); Chernigovka Distr., 15 km E of Dmitrievka, Merkushevka Vill., forest, meadows, 21.VII.1991, coll. S.A. Belokobylskij, 1 female (ZIN); Lazovskiy Nature Reserve, cordon Amerika, forest, meadows, 24–29.VI.2006, coll. S.A. Belokobylskij, 1 female (ZIN); Novokachalinsk, Khanka Lake, mixed



forest, meadows, 10.VIII.2001, coll. S.A. Belokobylskij, 1 female (ZIN); 20 km SE of Spassk-Dal'niy, mixed forest, meadows, 31.VII.1998, coll. S.A. Belokobylskij, 1 female (ZIN); 20 km ESE of Spassk-Dal'niy, Siniy Mt. Range, forest, meadows, 6.IX.2001, coll. S.A. Belokobylskij, 1 female (ZIN); Spassk-Dal'niy, forest, meadows, 16.VI.1995, coll. S.A. Belokobylskij, 1 female (ZIN); NE of Spassk-Dal'niy, Vasil'kovka Vill., forest, meadows, 13.VII.1993, coll. S.A. Belokobylskij, 1 female (ZIN); Anisimovka, forest, meadows, 29.VIII.2001, coll. S.A. Belokobylskij, 1 female (ZIN).

**Variation.** The species is found to be rather variable in body size and morphology. Malar space sometimes short, 0.6 times as long as basal mandibular width. Foveate groove of mesopleuron thin, short to long, S-curved, sometimes extending almost entire length of mesopleuron. Gena and mesopleuron sometimes with fine punctures, mesopleuron often granulate and impunctate below the foveate groove. Ovipositor moderately slender to robust, always strongly upcurved at apex, with two distinct dorsal teeth, and lower valve subapically swollen.

**Distribution.** Southern Siberia, Russian Far East.

#### 75. *Tersilochus (Tersilochus) heterocerus* (Thomson, 1889)

**Material examined.** \*Belarus, S Minsk, Lošyca Distr., at *Sinapis*, 6–7.VII.1963, coll. T. Bezdenko, 2 females [*Isurgus heterocerus* Thoms., det. K. Horstmann] (ZMUM). Germany, Bavaria: NW of Lauterstein, Heldenberg, 560–760 m a.s.l., 48°43.5'N, 9°53.15'E, 4.V.2016, coll. A.I. Khalaim, 2 females (ZIN); N of Bopfingen, Ipf Mt., 48°52'12"N, 10°21'25"E, 580–560 m a.s.l., 3.V.2016, coll. A.I. Khalaim, 2 males (ZIN).

**Remarks.** Horstmann (1981: 22) recorded this species from "Weißrußland", based on the collection of Viktorov, but without any details. Two specimens of *T. heterocerus* from the Minsk Province of Belarus, which are stored in the ZMUM collection and are provided with the identification labels of Horstmann (see *Material examined* section), were examined.

**Distribution.** Europe, ?Caucasus, Turkey.

#### 76. *Tersilochus (Tersilochus) hokkaidoensis* Khalaim, 2012

**Material examined.** \*Russia, Sakhalin Prov., Kuril Is., Kunashir I., Dubovoe Vill., 31.VIII.1973, coll. D.R. Kasparyan, 1 female (ZIN).

**Variation.** Female from Kunashir Island is somewhat paler than specimens from Japan; its pterostigma is pale brown and antennal flagellum comprises 20 flagellomeres.

**Distribution.** Russian Far East, Japan.

#### 77. *Tersilochus (Tersilochus) impunctator* Khalaim, 2012

**Material examined.** Russia, Primorsky Terr.: Anisimovka, 43°10'01"N, 132°45'32"E, 250 m a.s.l., forest, 5.VI.1993, coll. S.A. Belokobylskij, 2 females (ZIN); Vol'no-Nadezhdenskoe, forest, 4.VII.1996, coll. S.A. Belokobylskij, 1 female (ZIN); 9 km E of Rettikhovka Vill., 44°10'40"N, 132°52'37"E, 170 m a.s.l., 29.V.2016, coll. S.A. Belokobylskij, 2 females (ZIN); Arsen'ev, 44°07'19"N, 133°16'12"E, 200 m a.s.l., 30.V.2016, coll. S.A. Belokobylskij, 1 female (ZIN); Chuguevka Distr., N Samarka River, forest, 29.V.1993, coll. S.A. Belokobylskij, 1 female (ZIN); Gornotaezhnoe, 43°41'24"N, 132°09'36"E, 21–22.V.2016, coll. S.A. Belokobylskij, 3 females, 3 males (ZIN); Spassk-Dal'niy, forest, meadows, 7,8.VI.1990, coll. S.A. Belokobylskij, 2 females (ZIN); Ussuriyskiy Nature Reserve, 43°38'38"N, 132°20'46"E, 150 m a.s.l., 20–23.V.2016, coll. S.A. Belokobylskij, 4 females, 1 male (ZIN).

**Remarks.** The male of *T. impunctator* is recorded here for the first time. It is similar to the female, with antennal flagellum somewhat slenderer than in the female and comprising 18 flagellomeres.

**Distribution.** Russian Far East.

#### 78. *Tersilochus (Tersilochus) liopleuris* (Thomson, 1889)

**Material examined.** Russia, Primorsky Terr.: Gornotaezhnoe, 43°41'56"N, 132°09'58"E, 21–22.V.2016, coll. S.A. Belokobylskij, 4 females (ZIN); 20 km SE of Nakhodka, 42°41'17"N, 133°05'35"E, 12.VI.2016, coll. S.A. Belokobylskij, 3 females (ZIN).

**Distribution.** Europe, Russian Far East.

#### 79. *Tersilochus (Tersilochus) longicornis* (Thomson, 1889)

**Material examined.** \*Lithuania: Kaunas Distr., Ringovė [?Vill.], 8.VI.1990, coll. A. Jakimavičius, 1 female (ZIN); Varėna Distr., V.1975, coll. A. Jakimavičius, 1 female (ZIN). Russia: Leningrad Prov.: N of St Petersburg, Sosnovo, 2.VI.1984, coll. D.R. Kasparyan, 1 female (ZIN); 40–43 km S of St Petersburg, between Kobralovo and Semrino, 8.VII.1984, coll. D.R. Kasparyan, 1 female (ZIN); S of St Petersburg, Pushkin, 29.V.1984, coll. D.R. Kasparyan, 2 females

(ZIN); *Novgorod Prov.*, 20 km NW of Pestovo, Tychki-no Vill., coll. V.I. Tobias (all in ZIN): 27.V.–22.VI.1991 (7 females), 1–20.VI.1993 (3 females), 30.V.–4.VI.2000 (2 females).

*Distribution.* Europe.

**80. *Tersilochus (Tersilochus) microgaster***  
(Szépligeti, 1899)

*Material examined.* \***Russia**, *Leningrad Prov.*, 55 km S of St Petersburg, Krasnitsy, 6.V.1984, coll. D.R. Kasparyan, 1 female (ZIN).

*Distribution.* Europe.

**81. *Tersilochus (Tersilochus) nitidipleuris***  
Horstmann, 1971

*Material examined.* \***Russia**, *Leningrad Prov.*, 55 km S of St Petersburg, 4 km W of Krasnitsy, 1–23.V.2011, coll. D.R. Kasparyan, 9 females (ZIN). **Ukraine**, *Lugans'k Prov.*, NW of Antratsyt, 1.V.1974, coll. D.R. Kasparyan, 1 female [det. K. Horstmann] (ZIN).

*Remarks.* Horstmann (1981: 22) recorded this species from Ukraine, based on the Leningrad collection, but without any details. One specimen of *T. nitidipleuris* from the Lugans'k Province of Ukraine, which is stored in the ZIN collection and has the identification label of Horstmann (see *Material examined* section), was examined.

*Distribution.* Europe.

**82. *Tersilochus (Tersilochus) obliquus***  
(Thomson, 1889)

*Material examined.* \***Russia**, *Yaroslavl Prov.*, Yaroslavl, N. Kokujev collection, 1 female (ZIN).

*Distribution.* Europe.

**83. *Tersilochus (Tersilochus) obscurator***  
(Aubert, 1959)

*Material examined.* \***Russia**, *Moscow Prov.*: [without locality], ex weevil in stem, 10.X.1968, coll. Voskresenskaya, 2 females [1 female, det. K. Horstmann] (currently deposited in ZIN); Mikhnevo Town, 1.V.1962, coll. E. Antonova, 1 female [det. K. Horstmann] (ZMUM). **Ukraine**: *Donets'k Prov.*: NW of Slavyansk, 30.IV.1974, coll. D.R. Kasparyan, 1 female [det. K. Horstmann] (ZIN); 20 km N of Novoazovsk, Khomutovskaya Step' [steppe] Nature Reserve, 16–19.V.1974, coll. D.R. Kasparyan, 3 females [det. K. Horstmann] (ZIN); *Lugans'k Prov.*: 15 km E of Sverdlovsk, Proval'ska Step' [steppe] Nature Reserve, 5.V.1974, coll. D.R. Kasparyan, 1 female [det.

K. Horstmann] (ZIN); N of Antratsyt, "Lby", forest, 5–9.V.1974, coll. D.R. Kasparyan, 3 females [det. K. Horstmann] (ZIN).

*Remarks.* Horstmann (1971: 122–123) recorded this species from "Zentral- und Südrubland", based on the Viktorov's and Prague collections, and from Ukraine (Horstmann, 1981: 22), based on the Leningrad collection, but without any details. Two specimens of *T. obscurator*, which are stored in the ZMUM collection, and eight specimens from the ZIN collection, all with the identification labels of Horstmann (see *Material examined* section), were examined; all of them are from the Moscow Province of Russia and the Lugans'k and Donets'k provinces of Ukraine.

*Distribution.* Europe, Turkey.

**84. *Tersilochus (Tersilochus) rufovarius***  
Horstmann, 1981

*Material examined.* **Russia**, *Moscow Prov.*, S of Moscow, N of Vidnoe Town, 26.V.2008, coll. K. Tomkovich, 1 female (ZIN).

*Distribution.* Europe.

**85. *Tersilochus (Tersilochus) spasskensis***  
Khalaim, 2012

*Material examined.* **Russia**, *Primorsky Terr.*: Vladivostok, Morskoe Cemetery, forest, 22.VI.2003, coll. S.A. Belokobyl'skij, 2 females (ZIN); 25 km SSE of Spassk-Dal'niy, Evseevka Vill., forest, 27.VI.2016, coll. S.A. Belokobyl'skij, 1 female (ZIN).

*Distribution.* Russian Far East, China (north-east), Japan.

**86. *Tersilochus (Tersilochus) subdepressus***  
(Thomson, 1889)

*Material examined.* \***Russia**: *Leningrad Prov.*, N of St Petersburg, Sosnovo, 2.VI.1984, coll. D.R. Kasparyan, 1 female (ZIN); *Stavropol Terr.*, Kislovodsk, Kurortny Park, meadow, forest, 27.IV.2018, coll. S.A. Belokobyl'skij, 1 female (ZIN).

*Distribution.* Europe.

**87. *Tersilochus (Tersilochus) triangularis***  
(Gravenhorst, 1807)

*Material examined.* \***Lithuania**, W of Alytus, Łukšniany Vill., 20.V.1967, coll. A. Stanionyte, 1 female (ZIN). \***Russia**: *Yaroslavl Prov.*, Yaroslavl, N. Kokujev collection, 1 female (ZIN); same data, 9.V.1996, 1 female (ZIN); *Kirov Prov.*, Urzhum, 25.V.–

10.VI.1900, coll. Krulikovskiy, N. Kokujev collection, 1 female (ZIN). **Ukraine:** *Donets'k Prov.*, 10 km NE of Amvrosievka, forest, 15.V.1974, coll. D.R. Kasparyan, 1 female (ZIN); *Lugans'k Prov.*: 15 km E of Sverdlovsk, Proval'ska Step' [steppe] Nature Reserve, 5–6.V.1974, coll. D.R. Kasparyan, 4 females, 1 male [2 females, det. K. Horstmann] (ZIN); N of Antratsyt, "Lby", forest, 9.V.1974, coll. D.R. Kasparyan, 1 female (ZIN).

*Remarks.* Horstmann (1981: 22) recorded this species from Ukraine, based on the Leningrad collection, but without any details. Two specimens of *T. triangularis* from the Lugans'k Province of Ukraine, which are stored in the ZIN collection and have the identification labels of Horstmann (see *Material examined* section), were examined.

*Distribution.* Europe, Turkey.

#### 88. *Tersilochus (Tersilochus) tripartitus* (Brischke, 1880)

*Material examined.* \***Ukraine:** *Donets'k Prov.*: NE of Amvrosievka, "Yasenevoe", forest, 15.V.1974, coll. D.R. Kasparyan, 2 females ["*Tersilochus ? tripartitus*", det. K. Horstmann] (ZIN); NW of Slavyansk, Slavyanogorsk Town, 30.IV.1974, coll. D.R. Kasparyan, 1 female ["*Tersilochus ? tripartitus*", det. K. Horstmann] (ZIN); *Lugans'k Prov.*, N of Antratsyt, "Lby", forest, 9.V.1974, coll. D.R. Kasparyan, 1 female ["*Tersilochus ? tripartitus*", det. K. Horstmann] (1 female).

*Distribution.* Europe.

#### 89. *Tersilochus (Tersilochus) turpiculus* sp. nov. (Figs 10–19)

*Holotype.* Female, **Russia**, *Primorsky Terr.*, Anisimovka, forest, meadows, 7.VI.1993, coll. S.A. Belokobyl'skij (ZIN).

*Paratype.* One male, same data as for holotype (ZIN).

*Comparative diagnosis.* The new species is most easily recognised by the combination of distinct punctation on smooth and shining background of mesopleuron, without any vestiges of foveate groove (Fig. 15), strongly depressed second metasomal tergite, and very short ovipositor (Fig. 17). *Tersilochus turpiculus* sp. nov. is similar to *T. grandiculus* Khalaim, 2012 and *T. punctator* Khalaim & Lee, 2014 (Khalaim et al., 2014) as these three species have extensively punctate head and mesosoma, and short ovipositor; but *T. turpiculus* sp. nov. distinct in lacking foveate groove on mesopleuron, in narrow clypeus separated from face by deep furrow, and in strongly

depressed second metasomal tergite (Fig. 17). In the key to Eastern Palaearctic species of *Tersilochus* (Khalaim, 2012), *T. turpiculus* sp. nov. does not correspond with either side of the first couplet as this species has punctate head and mesosoma, mesoscutum without notaulus, and mesopleuron without foveate groove.

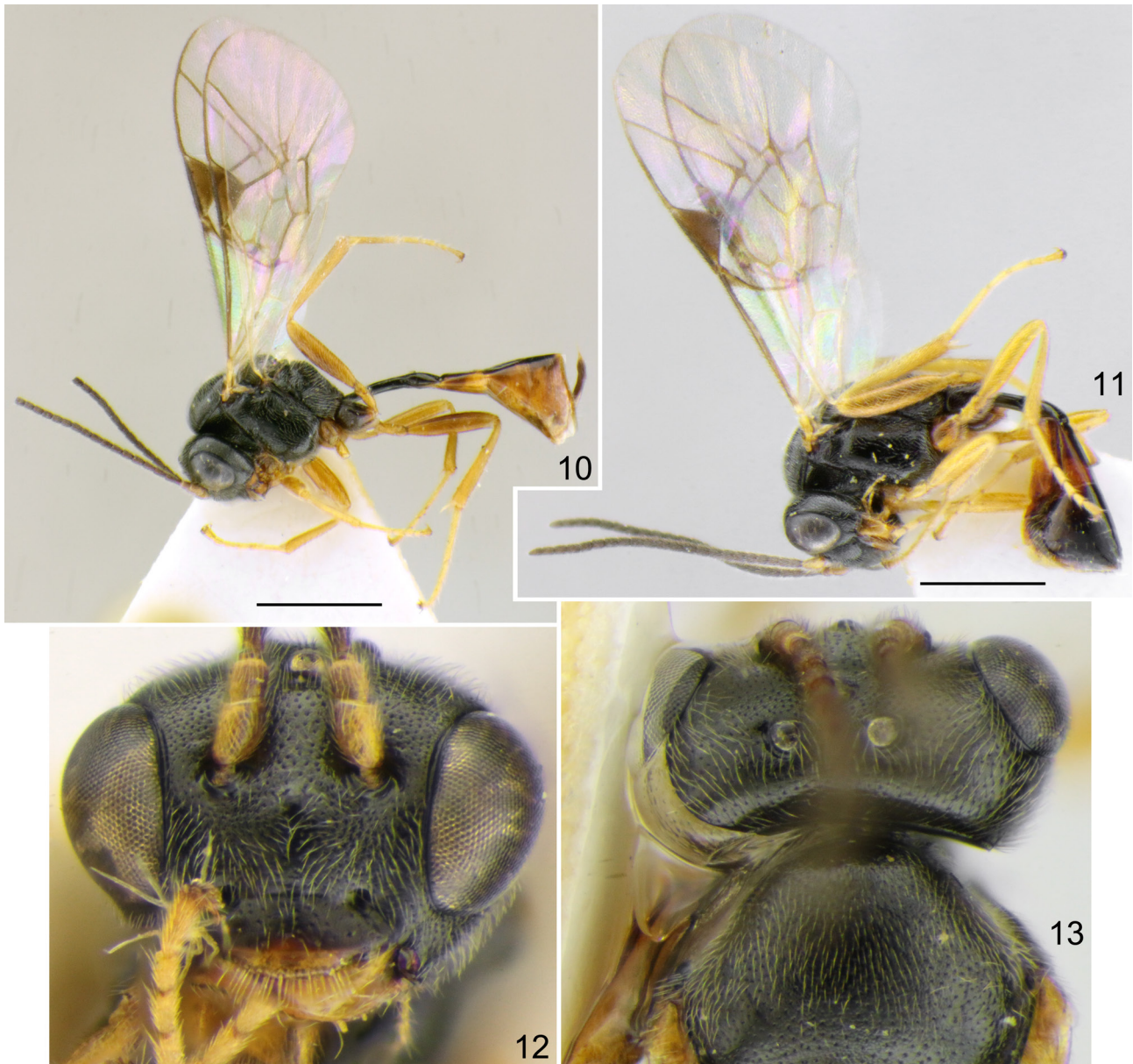
*Description. Female.* Body length 3.9 mm, fore wing length 3.8 mm.

Head distinctly constricted and weakly rounded behind eyes in dorsal view (Fig. 13); gena 0.75 times as long as eye width. Clypeus lenticular, 2.7 times as broad as high, convex, separated from face by deep furrow (tentorial pits very deep), smooth, with fine punctures in upper half, and with weak transverse furrow in lower 0.75. Mandible robust, weakly tapered, with upper tooth somewhat longer than lower one. Malar space 0.8 times as long as basal mandibular width. Antennal flagellum weakly tapered towards apex (apices of both antennae broken); subbasal flagellomeres 1.6–1.8 times as long as wide; flagellomeres four to six with subapical finger-shaped structures on outer surface (Fig. 14). Face and frons distinctly punctate on shallowly granulate to nearly smooth background. Vertex with fine and shallow punctures on very shallowly granulate and weakly shining background. Gena finely punctate on nearly smooth background. Occipital carina complete, arcuate dorsally.

Mesoscutum finely granulate, dull, with very fine (partly indistinct) punctures. Notaulus absent (Figs 13, 14). Scutellum with lateral longitudinal carinae present in anterior 0.3 of scutellum. Mesopleuron smooth and shining, with fine and sharp punctures, and impunctate in centre (Fig. 15). Foveate groove absent. Propodeum with weak basal keel which 0.4 times as long as apical area; dorso-lateral area finely punctate on smooth or shallowly granulate background; apical area rounded anteriorly, flat; apical longitudinal carinae distinct, reaching transverse carina anteriorly. Propodeal spiracle separated from pleural carina by two diameters of spiracle.

Fore wing (Fig. 16) with second recurrent vein (*2m-cu*) distinctly postfurcal. Metacarpus (*R1*) not reaching apex of wing. First abscissa of radius (*Rs+2r*) straight, longer than width of pterostigma. Intercubitus (*2rs-m*) very short and thick, shorter than abscissa of cubitus between intercu-





**Figs 10–13.** *Tersilochus turpiculus* sp. nov., holotype female (10, 13) and paratype male (11, 12). **10, 11**, habitus, lateral view; **12**, head, front view; **13**, head and mesoscutum, dorsal view. Scale bars: 1.0 mm.

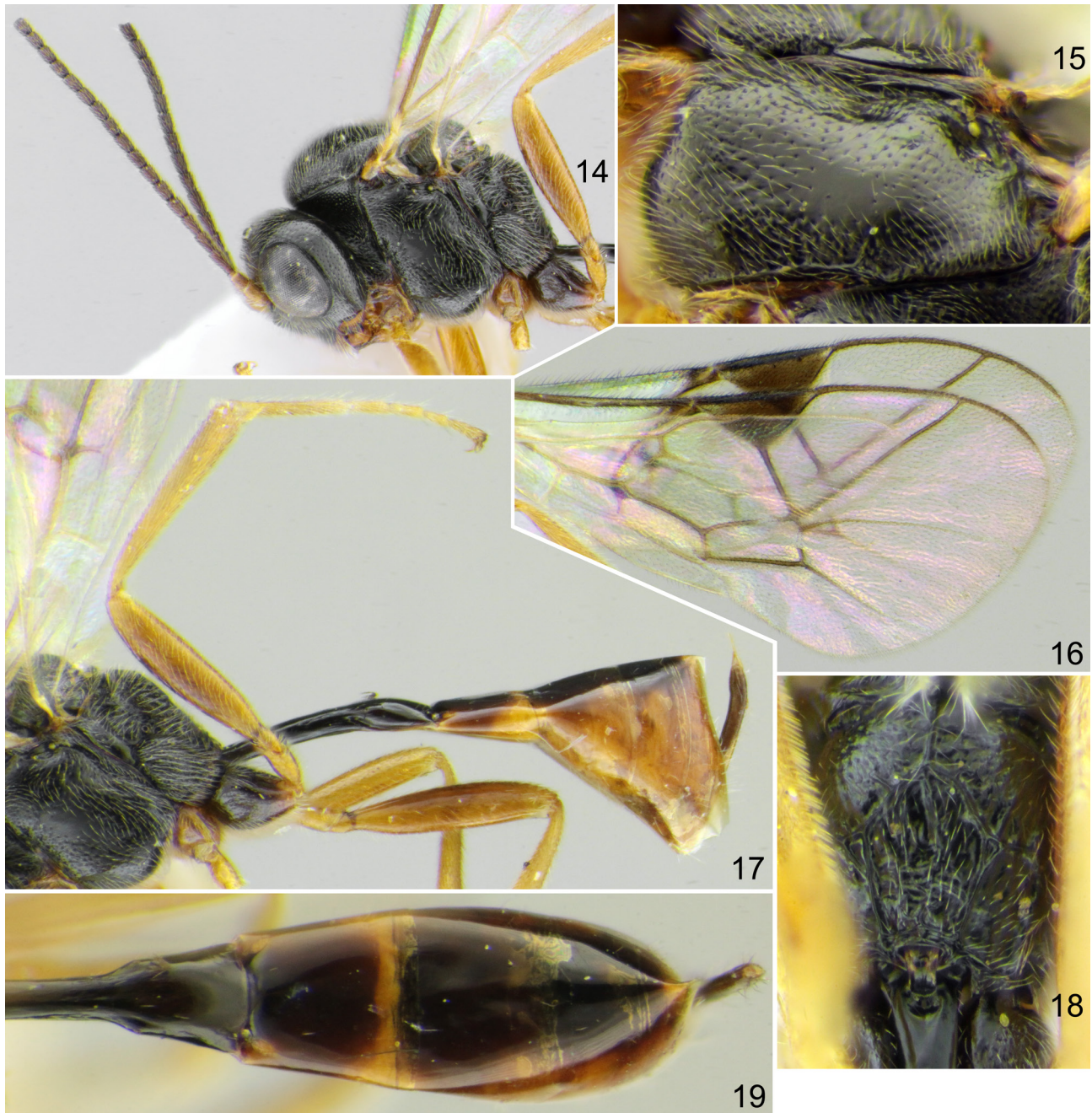
bitus and second recurrent vein (abscissa of *M* between *2rs-m* and *2m-cu*). Hind wing with subvertical nervellus (*cu1* and *cu-a*). Legs slender.

First metasomal tergite 3.1 times as long as posteriorly broad, entirely smooth; petiole trapeziform in cross-section; postpetiole in dorsal view strongly widened basally, much broader than petiole (Fig. 19). Glymma deep, situated in posterior 0.65 of first tergite, joining to ventral part of postpetiole by deep and sharp furrow (Fig. 17). Second tergite almost 1.3 times as long as wide

anteriorly (Fig. 19). Thyridial depression distinct, slightly elongate. Ovipositor very short, weakly upcurved (Fig. 17); sheath half as long as first tergite.

Head, mesosoma and first tergite black (Fig. 10); lower 0.3 of clypeus, mandible (teeth reddish) and mouthparts brownish yellow. Antenna dark brown to brownish black, scape and pedicel yellowish brown. Tegula brownish yellow. Pterostigma brown. Legs brownish yellow, hind coxa brownish black except apex. Metasoma behind





**Figs 14–19.** *Tersilochus turpiculus* sp. nov., holotype, female (all except 18); and paratype, male (18). **14**, head with antennae and mesosoma, lateral view; **15**, mesopleuron, antero-lateral view; **16**, wings; **17**, posterior part of mesosoma and metasoma, lateral view; **18**, propodeum, dorsal view; **19**, metasoma, dorsal view.

first tergite predominantly yellow brown, dorsally blackish; second tergite with transverse pale band posteriorly.

*Male.* Flagellum with 22 flagellomeres, distinctly tapered towards apex. Apical area of propodeum somewhat pointed anteriorly (Fig. 18). Tegula yellow. Second tergite twice as long

as anteriorly broad. Thyridial depression twice as long as broad. Metasoma behind first tergite predominantly dark brown. Otherwise similar to female.

*Etymology.* The species is named from the Latin *turpiculus* (somewhat ugly).

*Distribution.* Russian Far East.

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