

SHORT COMMUNICATION

M. Yu. Proshchalykin. ADDITIONAL DATA ON THE LONG-TONGUED BEE FAUNA (HYMENOPTERA, APOIDEA: MEGACHILIDAE, APIDAE) OF EASTERN SIBERIA. – Far Eastern entomologist. 2012. N 253: 24–27.

Summary. Three genera, *Lithurgus*, *Icterantheidium* and *Epeoloides*, and eight species of bees of the families Megachilidae and Apidae are newly recorded from Eastern Siberia.

Key words. Apiformes, biodiversity, Russia, Eastern Palaearctic.

М. Ю. Прошчалыкин. Дополнительные данные о длинноязычковых пчелах (Hymenoptera, Apoidea: Megachilidae, Apidae) Восточной Сибири // Дальневосточный энтомолог. 2012. N 253. С. 24-27.

Резюме. Три рода (*Lithurgus*, *Icterantheidium* и *Epeoloides*) и восемь видов пчел из семейств Megachilidae и Apidae впервые указываются для фауны Восточной Сибири.

INTRODUCTION

Eastern Siberia comprises six administrative units of Russia (Tyva Republic, Krasnoyarsk territory, Irkutsk province, Buryatia Republic, Zabaikalskiy territory, and Yakutia Republic [Sakha]) and covering 7.18 million km² (about 42% of the total area of Russia). About 150 species of long-tongued bees are known from the Eastern Siberia (Megachilidae: 57 species from 11 genera; Apidae: 93 species from 16 genera) (Panfilov et al., 1961; Romankova, 1983, 1995; Davydova, Pesenko, 2002; Proshchalykin, 2007, 2009; Proshchalykin & Kupianskaya, 2009). There are relatively complete data on the fauna of long-tongued bees from Buryatia Republic, Zabaikalskiy territory, Yakutia and Irkutsk province, but the bee fauna of Tyva Republic and Krasnoyarsk territory is poorest investigated.

During the study of bee collections at the museums of the Institute of Biology and Soil Science, Russian Academy of Sciences, Vladivostok [IBSS] and Zoological Institute, Russian Academy of Sciences, St. Petersburg [ZISP] three genera, *Lithurgus* Latreille, 1825, *Icterantheidium* Michener, 1944 and *Epeoloides* Giraud, 1863, and eight species of bees are newly recorded from Eastern Siberia (see below). The classification of bees follows C. Michener (2007), the general distribution the bees of family Megachilidae follows J. Banaszak & L. Romasenko (1998). New records in the distribution section are asterisked (*).

LIST OF THE SPECIES

Family Megachilidae

Chelostoma (Foveosmia) foveolatum (Morawitz, 1868)

MATERIAL. **Russia:** Krasnoyarsk territory: 35 km SE Krasnoyarsk, Berezovyi, 1.VII 2012, 1 ♂, leg. M. Proshchalykin, V. Loktionov (IBSS).

DISTRIBUTION. **Russia:** *Krasnoyarsk territory, Magadan province, Amurskaya province (Proshchalykin, 2012), European part (Osytsnjuk et al., 1978). – South, Eastern and Central Europe, Caucasus.

ECOLOGY. Oligolectics: Campanulaceae.

***Hoplitis (Alcidamea) acuticornis* Dufour et Perris, 1840**

MATERIAL. **Russia:** Krasnoyarsk territory: 35 km SE Krasnoyarsk, Berezovyi, 1.VII 2012, 2 ♀, 1 ♂, leg. M. Proshchalykin, V. Loktionov (IBSS).

DISTRIBUTION. **Russia:** *Krasnoyarsk territory, Kurgan province (Kuz'min & Molchanov, 1983), European part (Osytshnjuk et al., 1978). – South, Eastern and Central Europe, West Kazakhstan, Asia Minor, Caucasus.

ECOLOGY. Oligolectics: Fabaceae (Lotus, Lathyrus, Hippocrepis).

***Anthidium (Proanthidium) oblongatum* (Illiger, 1806)**

MATERIAL. **Russia:** Tyva Republic: Kyzyl, 15–19.VII 2010, 1 ♂, leg. S. Belokobylskij (ZISP).

DISTRIBUTION. **Russia:** *Tyva Republic, European part (Osytshnjuk et al., 1978). – South, Eastern and Central Europe, Caucasus, Central Asia, North Africa.

ECOLOGY. Oligolectics: Fabaceae (Melilotus, Trifolium, prefer Lotus corniculatus).

***Icteranthisdium laterale* (Latreille, 1809)**

MATERIAL. **Russia:** Tyva Republic: Uvs-Noor Lake, 24.VII 2010, 1 ♀, leg. S. Belokobylskij (ZISP); Krasnoyarsk territory: Minusinsk, 9.VII 2012, 2 ♀, leg. M. Proshchalykin, V. Loktionov (IBSS).

DISTRIBUTION. **Russia:** *Tyva Republic, *Krasnoyarsk territory, Altai territory (Shumakova et al., 1982), European part (Osytshnjuk et al., 1978). – South, Eastern and Central Europe, Caucasus, Turkey, Kazakhstan, Central Asia, North Africa.

ECOLOGY. Oligolectics: Asteraceae (Carduus, Cirsium).

***Lithurgus (Lithurgus) cornutus* (Fabricius, 1787)**

MATERIAL. **Russia:** Krasnoyarsk territory: Minusinsk Distr., Malaya Minusa River, 7.VII 2012, 7 ♀; Minusinsk, 9.VII 2012, 1 ♀, leg. M. Proshchalykin, V. Loktionov (IBSS); Khakasia Republic: Belyi Yar, Abakan River, 11–12.VII 2012, 2 ♂, leg. M. Proshchalykin, V. Loktionov (IBSS).

DISTRIBUTION. **Russia:** *Krasnoyarsk territory, *Khakasia Republic, Altai territory (Shumakova et al., 1982), European part (Osytshnjuk et al., 1978). – South, Eastern and Central Europe, Asia Minor, Central Asia, Caucasus, West Kazakhstan, North Africa.

ECOLOGY. Oligolectics: Asteraceae (Carduus, Cirsium).

***Coelioxys (Allocoelioxys) brevis* Eversmann, 1852**

MATERIAL. **Russia:** Tyva Republic: 40 km W Erzin, Shara-Nur Lake, 26.VII 2010, 1 ♀, leg. S. Belokobylskij (ZISP).

DISTRIBUTION. **Russia:** *Tyva Republic, Kurgan province (Kuz'min & Molchanov, 1983), European part (Osytshnjuk et al., 1978). – Turkmenistan, Tajikistan, South, Eastern and Central Europe, Caucasus, North Africa.

ECOLOGY. Hosts: *Megachile argentata* (Fabricius, 1793) and *M. apicalis* Spinola, 1808.

Family Apidae

Ceratina (Ceratina) cyanea (Kirby, 1802)

MATERIAL. **Russia:** Krasnoyarsk territory: Minusinsk, 10.VII 2012, 1 ♂, leg. M. Proshchalykin, V. Loktionov (IBSS); Novosibirsk province: 8 km S Berdsk, 11.VI.2010, 1 ♂, leg. A. Byvaltsev (IBSS).

DISTRIBUTION. **Russia:** *Krasnoyarsk territory, *Novosibirsk province, European part (Osytsnjuk et al., 1978). – South, Eastern and Central Europe (Amiet et al., 2007).

Epeoloides coecutiens (Fabricius, 1775)

MATERIAL. **Russia:** Krasnoyarsk territory: Minusinsk Distr., Nichka River, 6.VII 2012, 1 ♂, leg. E. Akulov (IBSS).

DISTRIBUTION. **Russia:** *Krasnoyarsk territory, Kemerovo province (Eremeeva et al., 2009), European part (Osytsnjuk et al., 1978). – Eastern and Central Europe, West Kazakhstan (Amiet et al., 2007).

ECOLOGY. Hosts: *Macropis europaea* Warncke, 1973 and *M. fulvipes* (Fabricius, 1804) (Bogusch, 2005).

REMARKS. *Epeoloides coecutiens* is single Palearctic species of the tribe Osirini and is one of the rare European bees (Michener, 2007).

ACKNOWLEDGEMENTS

I thank S.A. Belokobylskij and Yu.V. Astafurova (ZISP), curators of the Hymenoptera collection and A.M. Byvaltsev (Novosibirsk State University, Novosibirsk, Russia) for loans of material. V.M. Loktionov (IBSS) and E.N. Akulov (Krasnoyarsk, Russia) kindly helped me during field survey and loaned specimens. A.S. Lelej (IBSS) made valuable comments on the manuscript.

The work was supported by the grants of the Russian Funds for Basic Research (No. 12–04–31175–мол_a, 11–04–00624_a, 11–04–90454, 11–04–98585–р_восток_a) and the Far Eastern Branch of the Russian Academy of Sciences (No. 12–III–A–06–074, 12–I–II–30–03, 12–I–OBH–02, 12–III–A–06–069, 12–III–Д–06–008).

REFERENCES

- Amiet, F., Herrmann, M., Müller, A. & Neumeyer, R. 2007. Apidae 5: *Ammobates*, *Ammobatooides*, *Anthophora*, *Biastes*, *Ceratina*, *Dasypoda*, *Epeoloides*, *Epeolus*, *Eucera*, *Macropis*, *Melecta*, *Melitta*, *Nomada*, *Pasites*, *Tetralonia*, *Thyreus*, *Xylocopa*. *Fauna Helvetica*, 20: 1–356.
- Banaszak, J. & Romasenko, L. 1998. *Megachilid bees of Europe (Hymenoptera, Apoidea, Megachilidae)*. Bydgoszcz: Pedagogical University Bydgoszcz. 239 p.
- Bogusch, P. 2005. Biology of the cleptoparasitic bee *Epeoloides coecutiens* (Hymenoptera: Apidae: Osirini). *Journal of the Kansas Entomological Society*, 78(1): 1–12.
- Davydova, N.G. & Pesenko, Yu.A. 2002. Bee fauna (Hymenoptera, Apoidea) of Yakutia. I. *Entomologicheskoe obozrenie*, 81(3): 382–599 (in Russian).
- Eremeeva, N.N., Luzyanin, S.L. & Sidorov, D.A. 2009. Bees (Hymenoptera, Apoidea) as a component of forest ecosystems of the Gornaya Shoria. *Proceedings of the St. Petersburg Forestry Technical Academy*, 187: 115–123 (in Russian).

- Kuz'min, P.M. & Molchanov, A.E. 1983. The fauna of bees of the families Megachilidae and Anthophoridae in the Kurgan province. In: Kalinin, S.S. (ed.). *The fauna of invertebrates of the Urals. An Inter-College Collection of Scientific Papers*. Chelyabinsk: Chelyabinsk State Pedagogical Institute. P. 19–25.
- Michener, Ch.D. 2007. *The Bees of the World*. Second edition. Baltimore, Maryland: The John Hopkins University Press. 953 p.
- Osytsnjuk, A.Z., Panfilov, D.V. & Ponomareva, A.A. 1978. Superfamily Apoidea. In: Medvedev, G.S. (ed.). *Key to the Insects of the European Part of the USSR. Vol. III. Pt 1*. Leningrad: Nauka. P. 279–519 (in Russian).
- Panfilov, D.V., Rossolimo, O.L. & Syroyechkovskiy, E.E. 1961. On the fauna and zoogeography of bumble bees (Bombinae) of Tuva. *Proceedings of the Siberian Branch of the Academy of Sciences of the USSR, Series of Biological Sciences*, 6: 106–113 (in Russian).
- Proshchalykin, M.Yu. 2007. The bees of family Megachilidae (Hymenoptera, Apoidea) of Transbaikalia. *Far Eastern entomologist*, 175: 1–18.
- Proshchalykin, M.Yu. 2009. Cleptoparasitic bees of the family Apidae (Hymenoptera, Apoidea) of the Eastern Siberia and the Russian Far East. *Euroasian Entomological Journal*, 8: 237–244 (in Russian).
- Proshchalykin, M.Yu. 2012. Section Apiformes. In: Lelej, A.S. (ed.). *Annotated catalogue of the insects of Russian Far East. Vol. I. Hymenoptera*. Vladivostok: Dalnauka. P. 448–473 (in Russian).
- Proshchalykin, M.Yu. & Kupianskaya, A.N. 2009. The bees of family Apidae (Hymenoptera, Apoidea) of Transbaikalia. *Euroasian Entomological Journal*, 8: 59–68 (in Russian).
- Romankova, T.G. 1983. Bees of the genus *Megachile* Latr. (Hymenoptera, Apoidea, Megachilidae) from Siberia and the Far East of the USSR. In: Soboleva, R.G. (ed.). *Taxonomy and Ecological-Faunal Survey of Some Insect Orders in the Far East*. Vladivostok: DVNTS AN SSSR. P. 141–147 (in Russian).
- Romankova, T.G. 1995. Family Megachilidae. In: Lelej, A.S. (ed.). *Key to the insects of Russian Far East. Vol. 4. Pt. 1*. St. Petersburg: Nauka. P. 530–547 (in Russian).
- Shumakova, P.I., Babenko, Z.S. & Zolotareno, G.S. 1982. Bee pollinators (Hymenoptera, Apoidea) of leguminous plants in the «Kulunda Steppe». In: Zolotareno, G.S. (ed.). *Beneficial and Harmful Insects of Siberia*. Novosibirsk: Nauka. P. 157–174 (in Russian).

Author's address:

Institute of Biology and Soil Science,
Far Eastern Branch of the Russian Academy of Sciences,
Vladivostok 690022, Russia.
E-mail: proshchalikin@biosoil.ru