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**THE MARSH BEETLES (COLEOPTERA: SCIRTIDAE)  
OF KEMEROVO REGION, RUSSIA**

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**Summary.** The list of eight species from three genera of marsh beetles (Scirtidae) from Kemerovo Region is given. *Elodes tricuspis* Nyholm, 1985 and *Microcara testacea* (Linnaeus, 1767) are recorded from Asia for the first time. One species of the genus *Contacyphon* Gozis, 1866 is probably new for science.

**Key words:** Coleoptera, Scirtidae, fauna, new records, Western Siberia, Russia.

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**Резюме.** Приведен список 8 видов из трех родов жуков-трясинников (Scirtidae) Кемеровской области. Впервые для Азии приводятся два вида: *Elodes tricuspis* Nyholm, 1985 и *Microcara testacea* (Linnaeus, 1767). Один вид рода *Contacyphon* Gozis, 1866 предположительно является новым для науки.

**INTRODUCTION**

The world fauna of marsh-beetles (Scirtidae) includes about 1600 species (Lawrence, 2016), while about 340 species are distributed in the Palaearctic Region (Klausnitzer, 2016a). In the temperate part of the Palaearctic Region the marsh beetles are small in size and as a rule monotonous in color. Adult beetles are terrestrial, are often attracting to artificial lights and normally found on grassy vegetation not far from the water. Their mainly hydrobiontic larvae inhabit various water bodies ranging from main from watercourses to swamps and small ponds. Pupation occurs predominantly on land, rarely just above or slightly below the water surface. Larvae are detritivorous, the feeding type of adults is not clear. According to various sources about 45 species of Scirtidae are known from Russia.

Gebler (Gebler, 1830) provided the first record of Scirtidae from Western Siberia. Later his data were reported in the catalogs of Heyden (1880-1881) and Jacobson (1913). Some faunistic data are published in more recent works (Nyholm, 1972; Klausnitzer, 1990; Kirejtshuk, 2001; Krasutskiy, 2005). The current fauna of West Siberian Scirtidae includes nine species of two genera (Kirejtshuk, 2001; Klausnitzer, 2016a). The list of Scirtidae found in Kemerovo Region is given below.

## MATERIAL AND METHODS

The present study is based on the material collected in Kemerovo Region. Species identification was based on the structure of male and female genitalia. The pre-extracted genitalia were dissected, macerated in the 10% water solution of KOH at room temperature, rinsed in ethanol, mechanically cleared from the remaining tissues and stored in glycerol.

Photograph of the imago habitus was made with Nikon Coolpix L820 photcamera with microscope. The photographs of genitals were made with a Canon PowerShot A640 camera, attached to microscope LOMO Biolam R. The stacking of original images was combined with program Helicon Focus, postprocessing was done in Adobe Photoshop.

The taxonomic system of the family Scirtidae and distribution of their species are given according to Klausnitzer (2016a). All examined specimens are deposited in author's collections.

### LIST OF THE SPECIES

#### Family Scirtidae Fleming, 1821

#### Subfamily Scirtinae Fleming, 1821

##### *Contacyphon coarctatus* (Paykull, 1799)

MATERIAL EXAMINED. **Kemerovo Region:** Kemerovo, meadow, 7.VI 2009, 1 ex. (D. Efimov); Prokopyevsk distr., 2.5 km SE of Mayskiy village, raw lowland on meadow, 24.VI 2010, 1 ex. (D. Efimov); Kemerovo distr., Podyakovo village, floodplain, 9. VII 2015, 1 ex. (D. Efimov).

DISTRIBUTION. Western Siberia: Barnaul (Gebler, 1830), Tomsk (Klausnitzer, 1990), Altay (Kirejtschuk, 2001). – Europe, Middle Asia.

##### *Contacyphon padi* (Linnaeus, 1758)

MATERIAL EXAMINED. **Kemerovo Region:** Kemerovo distr., Mozzhukha, meadow steppe, 30.V 2009, 1 ex. (D. Efimov); Kemerovo, small stagnant water body, 16.VIII 2009, 1 ex. (D. Efimov); Belovo distr., Karakansky ridge, meadow steppe, 1.VI 2013, 1 ex. (D. Efimov); Kemerovo distr., 1–2 km from Berezovo village, 3.VII 2013, 1 ex. (D. Efimov); Leninsk-Kuznetsky distr., Krasnaya Gorka village, flood plain, 2.VIII 2014, 2 ex. (D. Efimov); Kuznetsk depression, Karakansky ridge, SW slope, meadow steppe, 15.VIII.2014, 1 ex. (D. Efimov).

DISTRIBUTION. Western Siberia: Barnaul (Gebler, 1830), Tobolsk, Omsk (Nyholm, 1972), Altay (Kirejtschuk, 2001). – Europe, North Africa, Middle East, North Asia.

##### *Contacyphon palustris* (C.G. Thomson, 1855)

MATERIAL EXAMINED. **Kemerovo Region:** Mountain Shoria, Tashtagol distr., 4 km N of Sheregesh near Zelenaya Mt., 2.VII 2015, 1 ex. (D. Efimov).

DISTRIBUTION. Western Siberia (Klausnitzer, 2016a). – Europe, North Africa, Middle East, Middle and North Asia.

##### *Contacyphon pubescens* (Fabricius, 1792)

MATERIAL EXAMINED. **Kemerovo Region:** Chebula distr., Shestakovo village, meadow steppes, sweeping, 9.VI 2015, 4 ex. (D. Efimov).

DISTRIBUTION. Western Siberia: Barnaul (Gebler, 1830), Tyumen, Tobolsk (Nyholm, 1972); from Khanty-Mansiysk, Surgut, Nizhnevartovsk southward to Kurgan, Omsk, Novosibirsk, Altay and Kuznetsk upland (Krasutskiy, 2005). – Europe, Middle East, North Asia, North America.

REMARK. This species was considered as synonym of *C. variabilis* (Heyden, 1880-1881; Jacobson, 1913).

***Contacyphon variabilis* (Thunberg, 1787)**

MATERIAL EXAMINED. **Kemerovo Region:** Kemerovo, at light, 13.V 2002, 4 ex. (A. Korshunov); Kemerovo, meadow, 7.VI 2009, 1 ex. (D. Efimov); Kemerovo distr., Mozzhukha village, steppe, 30.V 2009, 4 ex. (D. Efimov); Kemerovo distr, Mozzhukha village, willow by the stream, 13.VI 2009, 1 ex. (D. Efimov); Kemerovo distr., Krekovo village, 21–22.V 2011, 6.VI 2015, 2 ex. (D. Efimov); Kuznetsk depression, Guryevsk distr., Shanda village, feather grass steppe, 27.VI 2013, 1 ex. (D. Efimov); Kemerovo distr., 1–2 km from Berezovo village, fallow with meadow vegetation, 3.VII 2013, 1 ex. (D. Efimov); the same locality, marsh, 11.VII 2013, 2 ex. (D. Efimov); Belovo distr., near Novy Gorodok, Bachatskiye hills, meadow steppe, 09.VI 2014, 1 ex. (D. Efimov); Leninsk-Kuznetsky distr., Krasnaya Gorka, flood plain, 2.VIII 2014, 1 ex. (D. Efimov); Kuznetsk depression, SW slope of Karakansky ridge, meadow steppes, 15.VIII 2014, 1 ex. (D. Efimov); Chebula distr., Shestakovo village, meadow steppes, sweeping, 9.VI 2015, 1 ex. (D. Efimov).

DISTRIBUTION. Western Siberia: Ekaterinburg, Tyumen, Tobolsk (Nyholm, 1972). – Palaearctic Region.

***Contacyphon* sp.**

Figs 1, 2

MATERIAL EXAMINED. **Kemerovo Region:** Kemerovo distr., Mozzhukha, steppe, sweeping, 30.V 2009, 1♀ (D.Efimov).

REMARK. This species is externally similar to *Contacyphon laevipennis* (Tournier, 1868) which was reported for Western Siberia by Kirejtshuk (2001) as *Cyphon phragmiticola* Nyholm, 1955. A female with similar genitalia (Fig. 1) was recorded from Kyrgyzstan (Klausnitzer, 2016b, and personal communication). Probably this species is new undescribed species. To clarify its status additional material is needed, including males.

***Elodes tricuspis* Nyholm, 1985**

Figs 3, 4

MATERIAL EXAMINED. **Kemerovo Region:** Kuznetsk Alatau, left bank of Verkhnyaya Ters' River, 54°12'08''N, 88°10'14''E, 440 m, 13.VII 2009, 1 ex. (A. Korshunov).

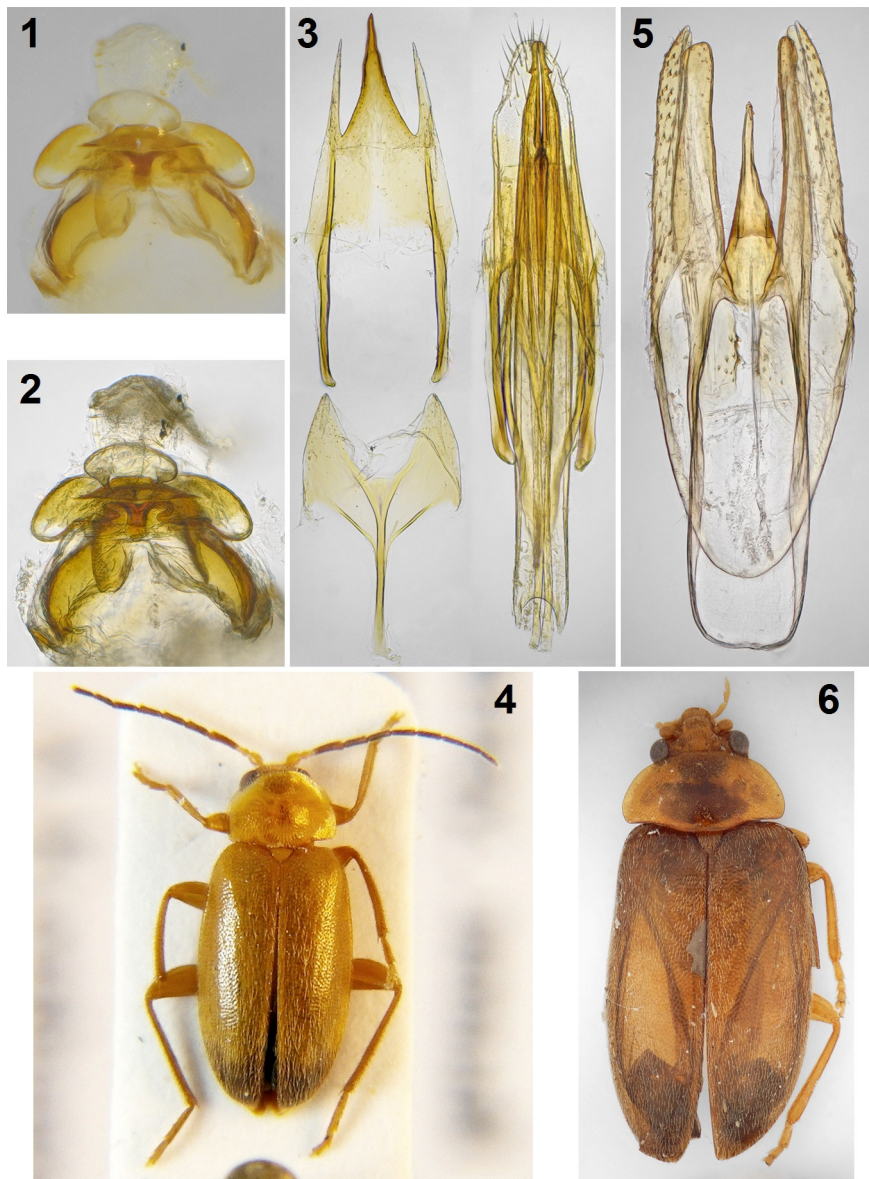
DISTRIBUTION. Europe. This species is firstly recorded herein for Asia. The genus *Elodes* Latreille, 1797 is recorded for Siberia for the first time.

***Microcara testacea* (Linnaeus, 1767)**

Figs 5, 6

MATERIAL EXAMINED. **Kemerovo Region:** Kemerovo distr., env. of Podyakovo village, pine forest, at light, 3–10.VII 2007, 1 ex. (A.Korshunov); Kemerovo, 28.VII 2011, 1 ex. (D. Efimov).

DISTRIBUTION. Europe. This species is firstly recorded for Asia. The genus *Microcara* C.G.Thomson, 1859 is recorded for the Asian part of Russia for the first time.



Figs 1–6. Scirtidae. 1, 2 – *Contacyphon* sp., female genitalia: 1 – in reflected light, 2 – in transmitted light; 3, 4 – *Elodes tricuspis*, male: 3 – genitalia, 4 – habitus; 5, 6 – *Microcara testacea*, male: 5 – genitalia, 6 – habitus.

## CONCLUSION

Eight species from three genera of Scirtidae are recorded herein from Kemerovo Region for the first time. Thus, the fauna of West Siberian Scirtidae consists of 12 species in four genera including above listed species as well as *Contacyphon kongsbergensis* (Munster, 1923) from Kuznetsk upland (Krasutskiy, 2005) and Western Siberia (Klausnitzer, 2016a), *C. punctipennis* (Sharp, 1872) from Western Siberia (Klausnitzer, 2016a) and Krasnoyarsk (Nyholm, 1972), and *Scirtes haemisphaericus* (Linnaeus, 1767) from vicinity of Barnaul (Gebler, 1830).

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