

## Remarks on the Ural spider fauna (Arachnida: Aranei), 14. On the spider fauna of the Kytlym plexus of mountains (the North Urals)

### Заметки по фауне пауков Урала (Arachnida: Aranei), 14. О фауне пауков Кытлымского горного узла (Северный Урал)

S.L. Esyunin\*, A.I. Ermakov\*\*, Yu.E. Mikhailov\*\*\*  
С.Л. Есюнин\*, А.И. Ермаков\*\*, Ю.Е. Михайлов\*\*\*

\* Perm State University, Bukireva street 15, Perm 614990, Russia. E-mail: Sergei.Esyunin@psu.ru

\*\* Institute of Plant and Animal Ecology of the RAS, 8 March street 202, Ekaterinburg 620114, Russia. E-mail: ermakov@ipae.uran.ru

\*\*\* Urals State Forestry-Engineering University, Sibirsy trakt 37, Ekaterinburg 620100, Russia. E-mail: yuemikhailov@gmail.com.

\* Пермский государственный национальный исследовательский университет, ул. Букирева 15, Пермь 614990, Россия.

\*\* Институт экологии растений и животных, ул. 8 Марта, 202, Екатеринбург 620144, Россия.

\*\*\* Уральский государственный лесотехнический университет, Сибирский тракт, 37, Екатеринбург 620100, Россия.

KEY WORDS: spider fauna, the North Urals, Ekaterinburg Area.

КЛЮЧЕВЫЕ СЛОВА: фауна пауков, Северный Урал, Свердловская область.

**ABSTRACT.** A check-list of 96 spider species from 74 genera and 18 families collected from the vicinity of Kytlym (the North Urals) is presented. The records of *Alopecosa aculeata* (Clerck, 1757) from the vicinity of Kytlym are shown to be misidentifications, whereas that of *Xysticus audax* (Schrank, 1803) remains doubtful.

**РЕЗЮМЕ.** Для окрестностей пос. Кытлым (северный Урал) приведен список из 96 видов из 74 родов 18 семейств пауков. Указания для окрестностей пос. Кытлым *Alopecosa aculeata* (Clerck, 1757) ошибочно, а находка *Xysticus audax* (Schrank, 1803) сомнительна.

#### Introduction

The spider fauna of the eastern macroslope of North Urals remains poorly known [Esyunin, Efimik, 1996, 1997a,b]. D.E. Kharitonov [1926, 1936] described two small spider collections from this region at the beginning of XX century. During the last decade, the mountain fauna of Ekaterinburg (=Sverdlovsk) Area has been surveyed by researchers from the Institute of Plant and Animal Ecology of the RAS. The first results of this survey devoted to the spider fauna of Denezhkin Kamenn' Ridge were recently published by Esyunin & Ermakov [2012], who presented a list of 196 spider species recorded to date from that local fauna.

The second local spider fauna studied in the aforementioned region is that of the mountains surrounding Kytlym settlement. A small collection of 11 spider species collected by A.O. Tauson and K.N. Igoshina was investigated by D.E. Kharitonov [1926]. Further information on the spiders occurring in the vicinity of Kytlym can be found in the following two works: Esy-

unin [2006] who reported on five linyphiid species and *Phrurolithus festivus* (C.L. Koch, 1835), and Tuneva [2007] reported on two *Micaria* species and on *Arboricaria subopaca* (Westring, 1861). Thus, by the beginning of our research, 20 spider species had been known from the vicinity of Kytlym. Of them, a record of *Alopecosa aculeata* (Clerck, 1757) was erroneous and that of *Xysticus audax* (Schrank, 1803) remains doubtful.

In the present paper, we have summarized both the literature-derived and newly collected data on the spiders from the vicinity of Kytlym. A total of 96 species of 74 genera and 18 families is currently known.

Kytlym settlement (c. 59°36'N, 59°03'E, Karpinsk District, Sverdlovsk [=Ekaterinburg] Area) is located on the eastern Ural macroslope, on the border between the Middle and North Urals. The intermountain hollow is surrounded by ridges of average height. Climate is cold and excessively humid. The average temperature of January is -16.8°C and of July +14.0°C; annual precipitation is 500–700 mm in the valleys, and up to 1200 mm in the mountains. The mountain-forest belt goes up to 900 m a.s.l. The coniferous taiga-forest consisting mainly of *Picea*, *Abies* and *Pinus sibirica* predominates. Mountain tundra and stone streams (the Siberian term “kurumy”) are widespread above 1000 m a.s.l. [Moiseev *et al.*, 2010].

#### Material and methods

This study is based on the spider collections made by A.I. Ermakov in 1996, 1997, 1981 and 2001, Yu.E. Mikhailov in 2011 and the student O.A. Pukalchuk in 2003–2004. The surveyed localities are described below.

1. Tylaisko-Konzhakovsko-Serebryanskiy Mt. Ridge (extending across 20 km from the west to the east), 14–15 km N of Kytlym: Garevaya Mt., Tylaiskiy Kamen' Mt., Malyi Konzhakovskiy Kamen' Mt. & Trapetsiya Mt., VII–VIII.2011, Yu.E. Mikhailov, and Serebryanskiy Kamen' Mt., VII.1996, A.I. Ermakov.

2. Kos'vinskiy Kamen' Mt., c. 7 km W of Kytlym, VII.1996, VII.1997, VI.1981, VIII.2001, A.I. Ermakov; VI.2003, VIII.2005, O.A. Pukalchuk.

3. Vicinity of Kytlym, VI–VII.2003, VI–VII.2004, O.A. Pukalchuk.

4. Mountain Ridge 2–11 km SE of Kytlym, extending across 14 km from the south-west to the north-east: Bugor Mt., Semichelovechiya Mt. & Kazanskiy Kamen' Mt., VIII.2001, A.I. Ermakov; Kolpak Mt., VI–VII.2003, VI–VII.2004, O.A. Pukalchuk.

The names of species ranges follows Esyunin & Marusik [2011]. The studied material is shared between the collections of the Institute of Plant and Animal Ecology of the RAS, Ekaterinburg, Russia (IPAE) and the Department of Zoology of the Perm State University, Perm, Russia (PSU). Abbreviations used in the text: AIE — A.I. Ermakov, OAP — O.A. Pukalchuk, YEM — Yu.E. Mikhailov, juv. — juvenile specimens, Mt. — mountain.

## ARANEIDAE

### *Aculepeira carbonariooides* (Keyserling, 1892)

MATERIAL. 6 ♂♂, 1 ♀ (PSU-16), [1]: Serebryanskiy Kamen' Mt., no habitat data, 28.VII.1925, A. Tauson; 2 ♀♀ (IPAE), [1]: Serebryanskiy Kamen' Mt., 1200 m a.s.l., stone streams (=kurumy), 8.VII.1997, AIE; 1 ♂, 6 ♀♀ (PSU-4786), [2] Kos'vinskiy Kamen' Mt., stone streams (=kurumy), 26.VI.2003, OAP.

Kharitonov [1926: as *Araneus (Epeira) hyperboreus Kulczyński*, 1908]: [1]: Konzhakovskiy Kamen' Mt., Serebryanskiy Kamen' Mt., [3].

DISTRIBUTION. NEEuropean-TransNearctic arcto-alpine range.

### *Araneus marmoreus* Clerck, 1757

MATERIAL. 2 ♀♀ (PSU-914), [2], mountain forest, 13.VII.1996, AIE; 1 ♂ (PSU-4810), [3], on *Picea*, 7.VII.2003, OAP; 1 ♀ (PSU-4810), [4]: Bugor Mt., mountain forest, 2.VII.2001, AIE.

Kharitonov [1926]: Topol Kamen' Mt. on Kos'va River.

DISTRIBUTION. Circum-Holarctic temperate range.

### *Araneus quadratus* Clerck, 1757

MATERIAL. 1 ♂, 1 ♀ (PSU-4836), [3], *Pinus-Picea* forest and meadow, VII.2003, OAP.

DISTRIBUTION. West-Central Palaearctic polyzonal range.

### *Araneus saevus* (L. Koch, 1872)

*Araneus zimmermanni* (Thorell, 1875): Kharitonov, 1926: 50, Fig. 1 (♀).

Kharitonov [1926: as *Araneus zimmermanni* (Thorell, 1875)]: Rebro Kamen' Mt. on Kos'va River, 400 m a.s.l.

DISTRIBUTION. Circum-Holarctic temperate range.

### *Cercidia prominens* (Westring, 1851)

MATERIAL. 1 ♀ (PSU-4829), [3], meadow, 1.VII.2004, OAP.

DISTRIBUTION. Circum-Holarctic temperate range.

## *Cyclosa conica* (Pallas, 1772)

MATERIAL. 3 ♀♀ (PSU-4788), [4]: Kolpak Mt., southern slope, forest, 9.VII.2003, OAP.

DISTRIBUTION. Circum-Holarctic temperate range.

## CLUBIONIDAE

### *Clubiona kulczynskii* Lessert, 1905

*Clubiona uralensis* Charitonov, 1926, Fig. 5, p. 52 (♀).

MATERIAL. 2 ♀♀ (PSU-949), [2], 1500 m a.s.l., *Carex*-moss tundra, 9.VII.1996; 1200 m a.s.l., mountain meadow, 10.VII.1997, AIE; 1 ♀, [4]: Bugor Mt., tundra, 11.VIII.2001, AIE.

Kharitonov [1926: as *Clubiona uralensis*]: [3], forest meadow.

DISTRIBUTION. Circum-Holarctic temperate range.

### *Clubiona subsultans* Thorell, 1875

MATERIAL. 2 ♀♀ (PSU-2739), [4]: Bugor Mt., Mountain taiga, 2 & 14.VIII.2001, AIE; 1 ♀ (PSU-2739), [4]: Kazanskiy Kamen' Mt., tundra, sweeping, 3.VIII.2001, AIE.

DISTRIBUTION. Trans-Palaearctic temperate range.

## CORINNIDAE

### *Phrurolithus festivus* (C.L. Koch, 1835)

MATERIAL. 1 ♀ (PSU-1009), [2], 900 m a.s.l., tundra, 10.VII.1996, AIE.

Esyunin [2006]: [2].

DISTRIBUTION. Trans-Palaearctic nemoral range.

## DICTYNIDAE

### *Dictyna arundinacea* (Linnaeus, 1758)

MATERIAL. 1 ♂ (PSU-4781), [2], no habitat data, 26.VI.2003, OAP; 3 ♀♀ (PSU-4781), [3], edge of mixed forest, 17.VI.2003, OAP.

DISTRIBUTION. Circum-Holarctic polyzonal range.

### *Dictyna pusilla* Thorell, 1856

MATERIAL. 1 ♂ (PSU-4833), [2], no habitat data, 26.VI.2003, OAP; 1 ♀ (PSU-4833), [3], *Betula-Picea* forest, 6.VII.2004, OAP.

DISTRIBUTION. Trans-Palaearctic temperate range.

## GNAPHOSIDAE

### *Arboricaria subopaca* (Westring, 1861)

MATERIAL. 1 ♀ (PSU-4845), [3], mixed forest, 10.VII.2004, OAP.

Tuneva [2007]: [3].

DISTRIBUTION. Trans-Palaearctic nemoral range.

### *Drassodes lapidosus* (Walckenaer, 1802)

MATERIAL. 1 ♀ (IPAE), [1]: Serebryanskiy Kamen' Mt., 1200 m a.s.l., dwarf *Betula* stand, 12.VII.1996, AIE; 2 ♂♂, 1 ♀ (PSU-4804), [4]: Kolpak Mt., stone streams (=kurumy), 18.VII.2004, OAP.

DISTRIBUTION. ?Trans-Palaearctic boreo-mountain range.

### *Drassodes pubescens* (Thorell, 1856)

MATERIAL. 1 ♂ (PSU-4830), [3], meadow, 11.07.2004, OAP.

DISTRIBUTION. Trans-Palaearctic nemoral range.

### *Gnaphosa muscorum* (L. Koch, 1866)

MATERIAL. 1 ♂ (IPAE), [1]: Tylaiskiy Kamen' Mt., grasslichen-moss tundra, 25–28.VII.2011, YEM.

DISTRIBUTION. Subcircum-Holarctic boreo-mountain range.

***Haplodrassus signifer*** (C.L. Koch, 1839)

MATERIAL. 1 ♀ (PSU-961), [1]: Serebryanskiy Kamen' Mt., 1200 m a.s.l., dwarf *Betula* stand, 12.VII.1996, AIE.

DISTRIBUTION. Circum-Holarctic polyzonal range.

***Haplodrassus soerensenii*** (Strand, 1900)

MATERIAL. 1 ♂ (PSU-963), [1]: Serebryanskiy Kamen' Mt., 1200 m a.s.l., dwarf *Betula* stand, 12.VII.1996, AIE.

DISTRIBUTION. Trans-EuroSiberian temperate range.

***Micaria alpina*** L. Koch, 1872

MATERIAL. 4 ♂♂, 1 ♀ (IPAE), [1]: Garevaya Mt., *Vaccinium*-grass tundra with dwarf *Betula* stand, 23–27.VII.2011, YEM; 1 ♂ (PSU-1012), [2], 1200–1300 m a.s.l., mountain meadow, 10.VII.1997, AIE.

Tuneva [2007]: [1, 2].

DISTRIBUTION. Subcircum-Holarctic boreo-mountain range.

***Micaria silesiaca*** L. Koch, 1875

MATERIAL. 1 ♀ (PSU-4841), [3], Lobva River bank, VII.2003, OAP.

Tuneva [2007]: [3].

DISTRIBUTION. West-Palaearctic temperate range.

***Zelotes latreillei*** (Simon, 1878)

MATERIAL. 1 ♂ (PSU-1040), [1]: Serebryanskiy Kamen' Mt., 1200 m a.s.l., dwarf *Betula* stand, 12.VII.1996, AIE; 1 ♂ (PSU-4806), [4]: Kolpak Mt., stone streams (=kurumy), 18.VII.2004, OAP.

DISTRIBUTION. West-Palaearctic temperate range.

## HAHNIIDAE

***Cryphoeca silvicola*** (C.L. Koch, 1834)

MATERIAL. 1 ♂ (PSU-960), [2], 700 m a.s.l., mountain taiga, 14.VII.1996, AIE.

DISTRIBUTION. Trans-Palaearctic boreal range.

## LINYPHIIDAE

***Agnynantes expunctus*** (O. Pickard-Cambridge, 1875)

MATERIAL. 1 ♂ (PSU-991), [6], 900 m a.s.l., tundra, 07.VII.1996, AIE; 1 ♀ (PSU-4790), [3], *Pinus-Picea* forest, 9.VII.2004, OAP; 1 ♂ (PSU-4790), [4]: Kolpak Mt., no habitat data, 1.VII.2003, OAP.

DISTRIBUTION. Trans-Palaearctic temperate range.

***Agyneta conigera*** (O. Pickard-Cambridge, 1863)

MATERIAL. 1 ♂ (PSU-911), [2], 700 m a.s.l., mountain taiga, 12.VII.1996, AIE.

DISTRIBUTION. Trans-EuroSiberian temperate range.

***Agyneta gulosa*** (L. Koch, 1869)

MATERIAL. 1 ♂ (IPAE), [2], 900 m a.s.l., tundra, 7.VII.1996, AIE; 8 ♂♂, [2], 1200–1300 m a.s.l., Mountain meadow, 10.VII.1997, AIE; 1 ♂ (PSU-2736), [4]: Bugor Mt., tundra, 11.VIII.2001, AIE.

DISTRIBUTION. Trans-Palaearctic boreo-mountain range.

***Agyneta subtilis*** (O. Pickard-Cambridge, 1863)

MATERIAL. 3 ♂♂, 1 ♀ (PSU-912), [2], 700 m a.s.l., mountain taiga, 14.VII.1996, AIE.

DISTRIBUTION. West-Palaearctic temperate range.

***Allomengea scopigera*** (Grube, 1859)

MATERIAL. 1 ♂, 3 ♀♀ (PSU-2737), [4]: Bugor Mt., mountain taiga, 14.VIII.2001, AIE.

DISTRIBUTION. Circum-Holarctic temperate range.

***Bathyphantes setiger*** F.O. Pickard-Cambridge, 1894

MATERIAL. 1 ♂ (PSU-917), [2], mountain tundra, 18.VI.1981, O.N. Fileva.

Esynin [2006]: [2].

DISTRIBUTION. Trans-EuroSiberian temperate range.

***Bolyphantes punctulatus*** (Holm, 1939)

MATERIAL. 1 ♂ (IPAE), [1]: Tyalskiy Kamen' Mt., grass-lichen-moss tundra, 25–28.VII.2011, YEM.

DISTRIBUTION. NW European-Trans-Siberian hypoarcto-mountain range.

***Centromerus arcanus*** (O. Pickard-Cambridge, 1873)

MATERIAL. 1 ♂, 2 ♀♀ (PSU-947), [2], 700 m a.s.l., mountain taiga, 14.VII.1996, AIE; 1 ♀ (IPAE), [4]: Bugor Mt., subalpine belt, no habitat data, 14.VIII.2001, AIE.

DISTRIBUTION. Euro-West Siberian temperate range.

***Cnehalocotes obscurus*** (Blackwall, 1834)

MATERIAL. 1 ♀ (PSU-4822), [2], *Betula-Picea* forest, 7.VI.2003, OAP.

DISTRIBUTION. Circum-Holarctic temperate range.

***Diplocephalus picinus*** (Blackwall, 1841)

MATERIAL. 1 ♂ (PSU-4827), [3], *Betula-Picea* forest, 7.VI.2003, OAP.

DISTRIBUTION. West-Palaearctic temperate range.

***Entelecara congenera*** (O. Pickard-Cambridge, 1879)

MATERIAL. 1 ♂ (PSU-957), [1]: Konzhakovskiy Kamen' Mt., 900 m a.s.l., grass-lichen-moss tundra, 7.VII.1996, AIE.

Esynin [2006]: [1].

DISTRIBUTION. West-Central Palaearctic temperate range.

***Gonatium rubellum*** (Blackwall, 1841)

MATERIAL. 3 ♀♀ (IPAE), [1]: Tyalskiy Kamen' Mt., grass-lichen-moss tundra, 25–28.VII.2011, YEM.

DISTRIBUTION. Trans-Palaearctic temperate range.

***Gonatium rubens*** (Blackwall, 1833)

MATERIAL. 1 ♀ (IPAE), [1]: Garevaya Mt., *Vaccinium*-grass tundra with dwarf *Betula* stand, 23–27.VII.2011, YEM; 2 ♂♂, 4 ♀♀ (IPAE), [2], 1200–1300 m a.s.l., Mountain meadow, 10.VII.1997, AIE; 1 ♀ (IPAE), [2], tundra, 18.VI.1981, AIE; 1 ♂ (PSU-4839), [3], bank of Kos'va River, 21.VII.2004, OAP.

DISTRIBUTION. Trans-Palaearctic temperate range.

***Gongylidiellum latebricola*** (O. Pickard-Cambridge, 1871)

MATERIAL. 1 ♀ (PSU-4805), [3], edge of mixed forest, 2.VII.2004, OAP.

DISTRIBUTION. West-Palaearctic nemoral range.

***Helophora insignis* (Blackwall, 1841)**

MATERIAL. 1 ♂ (PSU-4802), [2], no habitat data, VIII.2005, OAP.

DISTRIBUTION. Circum-Holarctic temperate range.

***Hypselistes jacksoni* (O. Pickard-Cambridge, 1902)**

MATERIAL. 2 ♀♀ (PSU-4803), [3], edge of coniferous forest, 10.VII.2003, OAP.

DISTRIBUTION. Subcircum-Holarctic temperate range.

***Kaestneria dorsalis* (Wider, 1834)**

MATERIAL. 2 ♀♀ (PSU-4789), [3], no habitat data, 23.VI.2003, OAP.

DISTRIBUTION. West-Palaearctic temperate range.

***Kaestneria pullata* (O. Pickard-Cambridge, 1863)**

MATERIAL. 1 ♀ (PSU-4831), [3], mixed forest, 11.VII.2004, OAP.

DISTRIBUTION. Circum-Holarctic temperate range.

***Maso sundevalli* (Westring, 1851)**

MATERIAL. 1 ♀ (PSU-4846), [3], mixed forest, 10.VII.2004, OAP.

DISTRIBUTION. Circum-Holarctic temperate range.

***Mecynargus monticola* (Holm, 1943)**

MATERIAL. 1 ♂ (IPAE), [2], 1200–1300 m a.s.l., mountain meadow, 10.VII.1997, AIE; 2 ♂♂, (PSU-993), [2], tundra, 18.VI.1981, O.N. Fileva.

Esyunin [2006]: [2].

DISTRIBUTION. EuroSiberian-West Nearctic hyparcto-boreal range.

***Microlinyphia pusilla* (Sundevall, 1830)**

MATERIAL. 1 ♂, 4 ♀♀ (PSU-4834), [3], edge of mixed forest, 17.VII.2003, OAP.

DISTRIBUTION. Circum-Holarctic temperate range.

***Microneta viaria* (Blackwall, 1841)**

MATERIAL. 2 ♂♂, 2 ♀♀ (PSU-4851), [3], multiherbaceous meadow, 17.VI.2003, OAP; 1 ♀ (PSU-2740), [4]: Bugor Mt., subalpine belt, no habitat data, 14.VIII.2001, AIE.

DISTRIBUTION. Circum-Holarctic temperate range.

***Minyriolus pusillus* (Wider, 1834)**

MATERIAL. 1 ♂, 1 ♀ (PSU-4835), [4]: Kolpak Mt., forest, 19.VII.2004, OAP.

DISTRIBUTION. Trans-EuroSiberian boreal range.

***Neriene montana* (Clerck, 1757)**

MATERIAL. 1 ♀ (PSU-4817), [3], no habitat data, 17.VII.2003, OAP.

DISTRIBUTION. Trans-Palaearctic temperate range.

***Obscuriphantes obscurus* (Blackwall, 1841)**

MATERIAL. 1 ♂, 2 ♀♀ (PSU-4823), [3], heather, 01.VII.2004; OAP.

DISTRIBUTION. West-Palaearctic boreo-mountain range.

***Oreoneta leviceps* (L. Koch, 1879)**

MATERIAL. 2 ♀♀ (IPAE), [1]: Tylaiskiy Kamen' Mt., grass-lichen-moss tundra, 25–28.VII.2011, YEM; 1 ♀ (IPAE), [1]: Konzhakovskiy Kamen' Mt., grass-lichen-moss tundra, 1–3.VIII.2011, YEM.

REMARKS. The present locality is the southernmost one in the Urals; hitherto known from NW Komi Republic [Koponen *et al.*, 1998: as *Hilaira*; Tanasevitch & Koponen, 2007] and Sob River, the Polar Urals [Tanasevitch, 1985: as *Hilaira*; Saaristo & Märsik, 2004; Tanasevitch *et al.*, 2009].

DISTRIBUTION. NE European-Trans-Nearctic arctic range.

***Oreonetides vaginatus* (Thorell, 1872)**

MATERIAL. 1 ♀ (PSU-4850), [2], no habitat data, VIII.2005, OAP; 2 ♀♀ (PSU-2741), [4]: Bugor Mt., subalpine belt, no habitat data, 14.VIII.2001, AIE.

DISTRIBUTION. Circum-Holarctic temperate range.

***Panamomops tauricornis* (Simon, 1881)**

MATERIAL. 1 ♀ (PSU-1013), [3], 900 m a.s.l., tundra, 7.VII.1996, AIE.

Esyunin [2006]: [3].

DISTRIBUTION. Trans-EuroSiberian boreo-mountain range.

***Pelecopsis mensei* (Simon, 1884)**

MATERIAL. 1 ♂, 1 ♀ (IPAE), [1]: Tylaiskiy Kamen' Mt., grass-lichen-moss tundra, 25–28.VII.2011, YEM; 1 ♂ (PSU-4812), [3], *Pinus-Picea* forest, 18.VII.2004, OAP.

DISTRIBUTION. Circum-Holarctic temperate range.

***Perregrinus deformis* (Tanasevitch, 1982)**

MATERIAL. 2 ♀♀ (PSU-1015), [2], 1500 m a.s.l., *Carex*-moss tundra, 9.VII.1996, AIE.

Esyunin [2006]: [2].

DISTRIBUTION. NEEuropean-Trans-Nearctic hyparcto-boreal range.

***Savignya frontata* Blackwall, 1833**

MATERIAL. 1 ♂ (PSU-4794), [3], *Pinus-Picea* forest, 13.VII.2004, OAP.

DISTRIBUTION. Euro-West Siberia temperate range.

***Tenuiphantes alacris* (Blackwall, 1853)**

MATERIAL. 1 ♀ (PSU-989), [2], 700 m a.s.l., mountain taiga, 14.VII.1996, AIE; 2 ♀♀ (PSU-4778), [3], mixed forest, 19.VI.2004, OAP.

DISTRIBUTION. Trans-Palaearctic temperate range.

***Tenuiphantes nigriventris* (C.L. Koch, 1879)**

MATERIAL. 2 ♀♀ (PSU-1017), [2], 700 m a.s.l., mountain taiga, 10.VII.1996, AIE; 2 ♂♂, 4 ♀♀ (PSU-4819), [3], mixed forest and heather, 19.VI & 1.VII.2004, OAP; 1 ♂ (PSU-1017), [4]: Bugor Mt., subalpine belt, no habitat data, 14.VIII.2001, AIE.

DISTRIBUTION. NW European-Trans-Siberian boreal range.

***Tenuiphantes tenebricola* (Wider, 1834)**

MATERIAL. 1 ♂ (PSU-1028), [2], 700 m a.s.l., mountain taiga, 14.VII.1996, AIE; 1 ♂, [2], 900 m a.s.l., tundra, 10.VII.1996, AIE.

DISTRIBUTION. West-Palaearctic temperate range.

***Walckenaeria karpinskii* (O. Pickard.-Cambridge, 1873)**

MATERIAL. 1 ♀ (IPAE), [1]: Tylaiskiy Kamen' Mt., grass-lichen-moss tundra, 25–28.VII.2011, YEM.

DISTRIBUTION. Circum-Holarctic arcto-boreal range.

***Walckenaeria vigilax* (Blackwall, 1853)**

MATERIAL. 1 ♂ (PSU-4852), [3], mixed forest, 23.VI.2004, OAP.

DISTRIBUTION. West Palaearctic-West Nearctic disjunctive temperate range.

***Zornella cultrigera* (L. Koch, 1879)**

MATERIAL. 1 ♀ (PSU-1042), [2], 700 m a.s.l., Mountain taiga, 14.VII.1996, AIE; 1 ♂ (PSU-1042), [4]: Bugor Mt., mountain taiga, 14.VIII.2001, AIE.

DISTRIBUTION. Euro-Middle Siberian boreal range.

**LIOCRANIDAE**

***Agroeca brunnea* (Blackwall, 1833)**

MATERIAL. 1 ♀ (PSU-4784), [3], *Betula-Picea* forest, 28.VI.2003, OAP.

DISTRIBUTION. Trans-Palaearctic temperate range.

**LYCOSIDAE**

***Acantholycosa lignaria* (Clerck, 1757)**

Kharitonov [1926: as *Lycosa lignaria*]: south slope Tylaisko-Konzhakovskiy Mt. Ridge.

DISTRIBUTION. Trans-EuroSiberian temperate range.

***Acantholycosa norvegica* (Thorell, 1872)**

*Lycosa (Acantholycosa) sudetica*: Kharitonov, 1926: 54, Fig. 3 (♀).

MATERIAL. 2 ♀♀, 1 subadult ♂ (IPAE), [1]: Garevaya Mt., *Vaccinium*-grass tundra with dwarf *Betula* stand, 23–27.VII.2011, YEM; 6 ♂♂, 1 subadult ♂, 2 juv. (IPAE), [1]: Tylaiskiy Kamen' Mt., grass-lichen-moss tundra, 25–28.VII.2011, YEM; 1 ♂, 1 ♀ (IPAE), [1]: Serebryanskiy Kamen' Mt., 1200 m a.s.l., dwarf *Betula* stand, 12.VII.1996, AIE; 2 ♂♂ (IPAE), [2], 1200–1300 m a.s.l., mountain meadow, 9.VII.1997, AIE; 1 ♂ (PSU-4820), [2], stone streams (=kurumy), 27.VI.2003, OAP.

Kharitonov [1926: as *Lycosa sudetica* L. Koch, 1875]: the top of Tylaisko-Konzhakovskiy Mt. Ridge.

DISTRIBUTION. Trans-EuroSiberian disjunctive boreo-mountain range.

***Alopecosa taeniata* (C.L. Koch, 1835)**

MATERIAL. 4 ♂♂, 2 ♀♀ (IPAE), [2], 900 m a.s.l., tundra, 7–10.VII.1996, 8.VII.1997, AIE; 7 ♂♂, 3 ♀♀ (PSU-4847), [4]: Kolpak Mt., tundra, VI.2004, OAP.

Kharitonov [1926: as *Tarentula aculeata* (Clerck, 1757) — 1 ♀ misidentification]: the south slope of Tylaisko-Konzhakovskiy Mt. Ridge.

DISTRIBUTION. West-Palaearctic temperate range.

***Pardosa agrestis* (Westring, 1861)**

MATERIAL. 1 ♂, [1]: Tylaiskiy Kamen' Mt., grass-lichen-moss tundra, 25–28.VII.2011, YEM.

DISTRIBUTION. West-Palaearctic polyzonal range.

***Pardosa amentata* (Clerck, 1757)**

MATERIAL. 1 ♂ (PSU-1004), [2], 700 m, coniferous forest, 14.VII.1996, AIE.

DISTRIBUTION. West-Palaearctic polyzonal range.

***Pardosa fulvipes* (Collett, 1875)**

MATERIAL. 1 ♀ (PSU-4795), [3], multiherbaceous meadow, 17.VI.2003, OAP.

DISTRIBUTION. West-Palaearctic temperate range.

***Pardosa hyperborea* (Thorell, 1872)**

MATERIAL. 2 ♂♂, 33 ♀♀, 3 subadult ♂♂, 2 subadult ♀♀ (IPAE), [1]: Garevaya Mt., *Vaccinium*-grass tundra with dwarf *Betula* stand, 23–27.VII.2011, YEM; 10 ♂♂, 4 ♀♀ (PSU-1014), [1]: Serebryanskiy Kamen' Mt., 1200 m a.s.l., dwarf *Betula* stand, 12.VII.1996, AIE; 2 ♂♂ (IPAE), [2], 900 m, tundra, 10.VII.1996, AIE; 16 ♀♀ (PSU-4800), [4]: Kolpak Mt., tundra, 7.VII.2004, OAP; 4 ♀♀ (PSU-2742), [4]: Bugor Mt., tundra, VIII.2001, AIE.

DISTRIBUTION. Subcircum-Holarctic hypoarctic-boreal range.

***Pardosa lapponica* (Thorell, 1872)**

MATERIAL. 2 ♀♀ (IPAE), [1]: Trapetsiya Mt., grass-mossy tundra with *Vaccinium*, 3.VIII.2011, YEM.

DISTRIBUTION. EuroSiberian-West Nearctic boreo-mountain range.

***Pardosa lasciva* (L. Koch, 1879)**

MATERIAL. 1 ♂ (PSU-1005), [2], 700 m a.s.l., coniferous forest, 14.VII.1996, AIE.

DISTRIBUTION. NW European-Trans-Siberian boreo-mountain range.

***Pardosa lugubris* (Walckenaer, 1802)**

MATERIAL. 2 ♂♂ (PSU-1006), [2], 700 m a.s.l., coniferous forest, 14.VII.1996, AIE; 1 ♀ (PSU-4809), [2], no habitat data, VIII.2005, OAP; 1 ♂ (PSU-4809), [3], edge of mixed forest, 28.VI.2003, OAP.

DISTRIBUTION. West-Palaearctic temperate range.

***Pardosa palustris* (Linnaeus, 1758)**

MATERIAL. 1 ♂ (IPAE), [2], 900 m a.s.l., tundra, 10.VII.1996, AIE; 2 ♀♀ (PSU-4825), [3], multiherbaceous meadow, 20.VI.2004, OAP.

DISTRIBUTION. Trans-Palaearctic-West Nearctic temperate range.

***Pardosa pullata* (Clerck, 1757)**

MATERIAL. 1 ♀ (PSU-4832), [3], edge of mixed forest, 23.VI.2003, OAP.

DISTRIBUTION. West-Central Palaearctic temperate range.

***Pardosa riparia* (C.L. Koch, 1833)**

MATERIAL. 1 ♂ (IPAE), [1]: Garevaya Mt., *Vaccinium*-grass tundra with dwarf *Betula* stand, 23–27.VII.2011, YEM; 3 ♂♂, 1 ♀ (IPAE), [1]: Tylaiskiy Kamen' Mt., grass-lichen-moss tundra, 25–28.VII.2011, YEM; 3 ♂♂, 1 ♀ (IPAE), [1]: Trapetsiya Mt., grass-mossy tundra with *Vaccinium*, 2–3.VIII.2011, YEM; 1 ♂ (IPAE), [1]: Serebryanskiy Kamen' Mt., 1200 m a.s.l., dwarf *Betula* stand, 12.VII.1996, AIE; 1 ♂ (IPAE), [2], 700 m, coniferous forest, 14.VII.1996, AIE; 2 ♂♂ (IPAE), [2], 900 m a.s.l., tundra, 10.VII.1996, AIE; 5 ♂♂, 1 ♀ (PSU-4838), [3], edge of mixed forest, 28.VI.2003, OAP; 1 ♂, 9 ♀♀ (PSU-4838), [4]: Kolpak Mt., mountain meadow, 11.VI.2004, OAP.

DISTRIBUTION. Trans-Palaearctic temperate range.

***Pardosa schenkeli* Lessert, 1904**

*Lycosa schenkeli*: Kharitonov, 1926: 56, Fig. 4 (♀).

MATERIAL. 7 ♂♂, 1 ♀ (PSU-1007), [2], 900 m a.s.l., tundra, 7–10.VII.1996, AIE; 1 ♀ (PSU-4840), [4]: Kolpak Mt., tundra, 10.VII.2004, OAP.

Kharitonov [1926: as *Lycosa schenkeli* (Lesset, 1904)]: [2].  
DISTRIBUTION. Trans-EuroSiberian boreo-mountain range.

***Pardosa sphagnicola* (F. Dahl, 1908)**

MATERIAL. 1 ♂, 1 ♀ (PSU-4843), [3], multiherbaceous meadow, 11.VI.2004, OAP.

DISTRIBUTION. Euro-West Siberian temperate range.

***Pirata hygrophilus* Thorell, 1872**

MATERIAL. 1 ♂ (PSU-4799), [4]: Kolpak Mt., swamped moss slope, 4.VII.2004, OAP.

DISTRIBUTION. West-Central-Palaearctic temperate range.

***Xerolycosa nemoralis* (Westring, 1861)**

MATERIAL. 1 ♂ (PSU-1037), [2], 900 m a.s.l., tundra, 10.VII.1996, AIE; 1 ♂ (PSU-4818), [3], meadow, 27.VI.2003, OAP; 3 ♀♀ (PSU-4818), [4]: Kolpak Mt., tundra, 6.VII.2004, OAP.

DISTRIBUTION. Trans-Palaearctic temperate range.

**METIDAE**

***Metellina mengei* (Blackwall, 1869)**

MATERIAL. 2 ♂♂, 3 ♀♀ (PSU-4811), [3], edge of mixed forest, 17.VI.2003, OAP.

DISTRIBUTION. West-Palaearctic temperate range.

**MIMETIDAE**

***Ero furcata* (Villers, 1789)**

MATERIAL. 1 ♀ (PSU-4796), [3], *Betula-Picea* forest, 17.VI.2003, OAP.

DISTRIBUTION. Trans-Palaearctic temperate range.

**PHILODROMIDAE**

***Philodromus cespitum* (Walckenaer, 1802)**

MATERIAL. 1 ♀ (PSU-4787), [3], multiherbaceous meadow, 17.VI.2003, OAP.

DISTRIBUTION. Circum-Holarctic polyzonal range.

***Philodromus margaritatus* (Clerck, 1757)**

MATERIAL. 1 ♂ (PSU-1552), [1]: Tylaiskiy Kamen' Mt., no habitat data, 27.VII.1925, A. Tauson.

DISTRIBUTION. Trans-Palaearctic temperate range.

***Thanatus striatus* C.L. Koch, 1845**

MATERIAL. 1 ♀ (PSU-4844), [3], meadow bog on river bank, 7.VI.2004, OAP.

DISTRIBUTION. Circum-Holarctic polyzonal range.

***Tibellus oblongus* (Walckenaer, 1802)**

MATERIAL. 1 ♂ (PSU-1018), [2], 900 m a.s.l., tundra, 10.VII.1996, AIE; 1 ♂, 3 ♀♀ (PSU-4821), [3], edge of mixed forest, 17.VI.2003, OAP.

DISTRIBUTION. Circum-Holarctic polyzonal range.

**PISAURIDAE**

***Dolomedes fimbriatus* (Clerck, 1757)**

MATERIAL. 1 ♂ (PSU-4792), [3], meadow, 28.VI.2003, OAP.

Kharitonov [1926]: [2], bank of lake.

DISTRIBUTION. West-Central-Palaearctic temperate range.

**SALTICIDAE**

***Chalcoscirtus alpicola* (L. Koch, 1876)**

MATERIAL. 1 ♂ (IPAE), [1]: Garevaya Mt., *Vaccinium*-grass tundra with dwarf *Betula* stand, 23–27.VII.2011, YEM.

DISTRIBUTION. Circum-Holarctic hypoarcto-boreo-montane range.

***Evarcha arcuata* (Clerck, 1757)**

MATERIAL. 1 ♀ (PSU-4780), [4]: Kolpak Mt., stone streams (=kurumy), 11.VII.2004, OAP.

DISTRIBUTION. Trans-Palaearctic temperate range.

***Evarcha falcata* (Clerck, 1757)**

MATERIAL. 4 ♂♂, 1 ♀ (PSU-4790), [3], edge of mixed forest, 17.VI.2003, OAP.

DISTRIBUTION. West-Central-Palaearctic temperate range.

***Heliophanus camtschadalicus* Kulczyński, 1885**

MATERIAL. 1 ♂ (PSU-966), [2], 900 m a.s.l., stone streams (=kurumy), 8.VII.1996, AIE; 2 ♀♀ (PSU-4785), [3], edge of mixed forest, 17.VI.2003, OAP.

DISTRIBUTION. Trans-EuroSiberian boreal range.

***Neon reticulatus* (Blackwall, 1853)**

MATERIAL. 1 ♂ (PSU-4837), [3], *Betula-Picea* forest, 17.VI.2003, OAP.

DISTRIBUTION. Trans-Palaearctic-West Nearctic temperate range.

***Synageles venator* (Lucas, 1836)**

MATERIAL. 1 ♂ (PSU-2743), [4]: Semichelovechiya Mt., tundra, 6.VIII.2001, AIE.

DISTRIBUTION. Trans-Palaearctic temperate range.

***Talavera petrensis* (C.L. Koch, 1837)**

MATERIAL. 1 ♀ (PSU-4826), [3], no habitat data, 21.VI.2004, OAP.

REMARKS. The present locality is the northernmost one in the Urals; hitherto known from Perm, Orenburg and Chelyabinsk Areas [Esyunin & Efimik, 1996; Logunov & Marusik, 2000].

DISTRIBUTION. West-Central-Palaearctic nemoral range.

**TETRAGNATHIDAE**

***Tetragnatha extensa* (Linnaeus, 1758)**

MATERIAL. 1 ♂ (PSU-1030), [1]: Serebryanskiy Kamen' Mt., 1200 m a.s.l., dwarf *Betula* stand, 12.VII.1996, AIE; 1 ♀ (PSU-1029), [2], mountain taiga, 13.VII.1996, AIE.

Kharitonov [1926]: [3], banks of river and lake.

DISTRIBUTION. Circum-Holarctic polyzonal range.

***Tetragnatha pinicola* L. Koch, 1870**

MATERIAL. 1 ♀ (PSU-1033), [2], 900 m a.s.l., tundra, 7.VII.1996, AIE; 2 ♂♂, 2 ♀♀ (PSU-4828), [3], meadow, 1.VIII.2004, OAP.

DISTRIBUTION. Trans-Palaearctic temperate range.

**THERIDIIDAE**

***Crustulina guttata* (Wider, 1834)**

MATERIAL. 1 ♀ (PSU-4798), [3], no habitat data, 10.VIII.2004, OAP.

DISTRIBUTION. Trans-Palaearctic temperate range.

***Euryopis flavomaculata*** (C.L. Koch, 1836)

MATERIAL. 1 ♂ (PSU-4793), [3], no habitat data, 7.VI.2004, OAP.

DISTRIBUTION. Euro-Siberian temperate range.

***Ohlertidion ohlerti*** (Thorell, 1870)

MATERIAL. 1 ♂ (PSU-4824), [4]: south slope of Kolpak Mt., no habitat data, 12.VII.2003, OAP.

DISTRIBUTION. Circum-Holarctic boreo-mountain range.

***Phylloneta impressa*** (L. Koch, 1881)

MATERIAL. 1 ♂ (PSU-4801), [3], multiherbaceous meadow, 19.VI.2003, OAP.

DISTRIBUTION. Subcircum-Holarctic polyzonal range.

***Phylloneta sisypbia*** (Clerck, 1757)

MATERIAL. 2 ♂♂ (PSU-4842), [2], stone streams (=kurumy), 27.VI.2003, OAP.

DISTRIBUTION. West-Central-Palaearctic polyzonal range.

***Robertus lividus*** (Blackwall, 1836)

MATERIAL. 1 ♂ (PSU-1023), [2], 700 m a.s.l., coniferous forest, 14.VII.1996, AIE; 1 ♂, 2 ♀♀ (PSU-4807), [2], no habitat data, VIII.2005, OAP; 2 ♂♂, 2 ♀♀ (PSU-1023), [4]: Bugor Mt., mountain forest, VIII.2001, AIE.

DISTRIBUTION. Trans-Palaearctic-West Nearctic temperate range.

***Steatoda albomaculata*** (DeGeer, 1778)

MATERIAL. 6 ♂♂, 4 ♀♀ (PSU-4779), [3], river bank, 4.VII.2003, OAP.

DISTRIBUTION. Circum-Holarctic polyzonal range.

***Thymoites bellissimus*** (L. Koch, 1879)

MATERIAL. 1 ♀ (PSU-2744), [4]: Bugor Mt., mountain taiga, 14.VIII.2001, AIE.

DISTRIBUTION. NW European-Trans-Siberian boreal range.

## THOMISIDAE

***Misumena vatia*** (Clerck, 1757)

MATERIAL. 1 juv. (IPAE), [2]: slope of Kos'vinskiy Kamen' Mt., mountain taiga 13.VII.1996, AIE.

DISTRIBUTION. Circum-Holarctic polyzonal range.

***Ozyptila arctica*** Kulczyński, 1908

MATERIAL. 1 ♂, 2 ♀♀ (IPAE), [1]: Garevaya Mt., *Vaccinium*-grass tundra with dwarf *Betula* stands, 23–27.VII.2011, YEM.

DISTRIBUTION. EuroSiberian-West Nearctic hygrocarpo-mountain range.

***Ozyptila trux*** (Blackwall, 1846)

MATERIAL. 1 ♂ (PSU-1052), [2]: 700 m a.s.l., coniferous forest, 14.VII.1996, AIE; 1 ♀ (PSU-4848), [3], multiherbaceous meadow, 4.VI.2004, OAP; 1 ♀ (PSU-1052), [4]: Bugor Mt., Mountain taiga, 11.VIII.2001, AIE.

DISTRIBUTION. Trans-Palaearctic temperate range.

***Xysticus austrosibiricus*** Logunov et Marusik, 2001

MATERIAL. 1 ♂ (IPAE), [2], 900 m a.s.l., tundra, 10.VII.1996, AIE; 8 ♂♂, 1 ♀ (IPAE), [2], 1200–1300 m a.s.l., mountain meadow, 9–10.VII.1997, AIE.

DISTRIBUTION. West-Middle Siberian boreo-mountain range.

***Xysticus bifasciatus*** C.L. Koch, 1837

MATERIAL. 6 ♂♂ (PSU-4782), [3], multiherbaceous meadow, 20.VII.2003, OAP.

DISTRIBUTION. West-Central Palaearctic temperate range.

***Xysticus bonneti*** Denis, 1937

MATERIAL. 1 ♀ (IPAE), [1]: Garevaya Mt., *Vaccinium*-grass tundra with dwarf *Betula* stands, 23–27.VII.2011, YEM; 1 ♀ (PSU-4783), [2], stone streams (=kurumy), 23.VI.2003, OAP; 5 ♂♂ (PSU-4783), [4]: Kolpak Mt., stone streams (=kurumy), 11.VII.2004, OAP; 1 ♀ (PSU-2745), [4]: Semichelovechiya Mt., tundra, 6.VIII.2001, AIE.

DISTRIBUTION. Euro-Middle Siberian mountain disjunction range.

***Xysticus cristatus*** (Clerck, 1757)

MATERIAL. 2 ♂♂, 2 ♀♀ (PSU-4853), [3], edge of mixed forest, 17.VI.2003, OAP.

Kharitonov [1926: as *Xysticus pini* (Hahn, 1831) — 1 ♀, misidentification]: [1], Serebryanskiy Kamen' Mt.

DISTRIBUTION. Trans-Palaearctic temperate range.

***Xysticus luctuosus*** (Blackwall, 1836)

MATERIAL. 6 ♂♂, 1 ♀ (PSU-4808), [3], multiherbaceous meadow, 20.VII.2003, OAP; 3 ♂♂ (PSU-4808), [4]: Kolpak Mt., tundra, 11.VI.2004, OAP.

DISTRIBUTION. Circum-Holarctic temperate range.

***Xysticus ulmi*** (Hahn, 1832)

MATERIAL. 1 ♂, 1 ♀ (PSU-4849), [3], meadow, 20.VII.2003, OAP.

DISTRIBUTION. West-Central Palaearctic temperate range.

## ZORIDAE

***Zora nemoralis*** (Blackwall, 1861)

MATERIAL. 1 ♂ (PSU-1041), [2], 900 m a.s.l., tundra, 10.VII.1996, AIE.

DISTRIBUTION. West-Central Palaearctic temperate range.

Although the local spider fauna of the Basegi Ridge (Middle Urals; 262 species [Esynin, Efimik, 1996]) is well studied, the information on spiders of the vicinity of Kytlym remains inadequate. A real diversity of this spider fauna seems to be not less than 250 species.

ACKNOWLEDGEMENTS. This research project was funded by the Russian Foundation for Basic Research (grants #09-04-01365, 12-04-01548) and by the grant to support the leading scientific schools from the President of the Russian Federation. In 2011, the spider collection was made by Yu.E. Mikhailov within the frames of 'GLORIA Invertebrate monitoring' supported by the Austrian Academy of

Sciences (grant ÖAW 621/11). The English of the final draft was kindly checked by D.V. Logunov, Manchester, UK.

## References

- Esyunin S.L. 2006. Remarks on the Ural spider fauna (Arachnida: Aranei). 11. New faunistic records // *Arthropoda Selecta*. Vol.14 (for 2005). No.4. P.329–337.
- Esyunin S.L., Efimik V.E. 1996. Catalogue of the spiders (Arachnida, Aranei) of the Urals. Moscow: KMK Scientific Press Ltd. 229 p.
- Esyunin S.L., Efimik V.E. 1997a. [Some results of the Urals spider fauna study] // *Vestnik Perm. Univ.* No.3. P.122–127 [in Russian].
- Esyunin S.L., Efimik V.E. 1997b. [The spider fauna of Urals: history of investigation and some results] // *Uspekhi entomologii na Urale*. Ekaterinburg. P.118–121 [in Russian].
- Esyunin S.L., Ermakov A.I. 2012. [Spider fauna (Aranei) of the Denezhkin Kamen' Reserve, Ekaterinburg (= Sverdlovskaya Area)] // *Vestnik Perm. Universiteta. Ser. Biology*. No.2. P.22–35 [in Russian].
- Esyunin S.L., Marusik Yu.M. 2011. [An attempt of the classification of distributional patterns of the Ural's spiders] // *Vestnik Perm. Univ. Biology*. No.1. P.32–36 [in Russian].
- Kharitonov D.E. 1926. [Materials on the spider fauna of the Verkhnyaya Tura Urals] // *Izv. biolog. Nauch.-Issl. instituta pri Perm. gos. un-te.* Vol.5. No.2. P.49–60 [in Russian].
- Kharitonov D.E. 1936. [Spiders of the Denezhkin Kamen' Mt. and its vicinities (North Urals)] // *Uchenye zapiski Perm. gos. un-ta*. Vol.2. No.3. P.15–35 [in Russian].
- Koponen S., Marusik Yu.M., Tanasevitch A.V. 1998. New data on the spider fauna of the Polar Urals (Aranei) // *Arthropoda Selecta*. Vol.6 (for 1997). No.3/4. P.109–119.
- Moiseev P.A., Bartysh A.A., Nagimov Z.Y. 2010. Climate changes and tree stand dynamics at the upper limit of their growth in the North Ural mountains // *Russian Journal of Ecology*. Vol.41. No.6. P.486–497.
- Saaristo M.I., Marusik Yu.M. 2004. Revision of the Holarctic spider genus *Oreoneta* Kulczyński, 1894 (Arachnida: Aranei: Linyphiidae) // *Arthropoda Selecta*. Vol.12 (for 2003). No.3–4. P.207–249.
- Tanasevitch A.V. 1985. [To the study of spiders (Aranei) of the Polar Urals] // *Fauna i ekologiya paukov SSSR. Trudy Zool. Inst. AN SSSR. Leningrad: Nauka*. Vol.139. P.52–62 [in Russian].
- Tanasevitch A.V., Koponen S. 2007. Spiders (Aranei) of the southern tundra in the Russian Plain // *Arthropoda Selecta*. Vol.15 (for 2006). No.4. P.295–345.
- Tanasevitch A.V., Koponen S., Kaarlejarvi E. 2009. Small collection of spiders (Aranei) from the Polar Urals and Yamal Peninsula, Russia // *Arthropoda Selecta*. Vol.17 (for 2008). No.3–4. P.185–190.
- Tuneva T.K. 2007. Review of the family Gnaphosidae on the Ural fauna (Aranei), 5. Genera *Micaria* Westring, 1851 and *Arboricaria* Bosmans, 2000 // *Arthropoda Selecta*. Vol.15 (for 2006). No.3. P.229–250.

*Responsible editor D.V. Logunov*