

## Notes on the spider fauna (Aranei) of the upper reaches of Bureya River (Khabarovsk Province)

### Заметки о фауне пауков (Aranei) верховьев р. Буреи (Хабаровский край)

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КЛЮЧЕВЫЕ СЛОВА: фауна, пауки, верховья Буреи.

**ABSTRACT.** A check-list of 54 spider species of 13 families collected in the upper reaches of Bureya River is provided. Fifteen species are recorded in the southern part of the Russian Far East for the first time. All these species are provided with a more detailed information.

**РЕЗЮМЕ.** Приведен список из 54 видов пауков из 13 семейств, собранных в 1999 году в верховьях р. Буреи. Пятнадцать видов впервые отмечаются на юге Дальнего Востока. По всем этим видам дается более подробная информация.

#### Introduction

Faunistical studies performed in Northern Asia during the last decades have considerably enlarged our knowledges on the spiders of this vast area.

An examination of the arachnofauna of the Russian Far East was began in the last century [Grube, 1861; Kulczyński, 1885, 1895, 1926, *et al.*]. However, only in the 90th, the works appeared specially devoted to the spiders of Khabarovsk Province [Kurenschikov, 1991, 1993a, 1997, 1999; Logunov, 1992, *et al.*], or even to separate families (*e.g.* Thomisidae [Kurenschikov, 1993b]) or genera (*e.g.* *Tetragnatha* [Kurenschikov, 1994]) thereof. Kim & Kurenschikov [1995] provided a first list of the spiders of Khabarovsk Province numbering 21 families and 377 species, of which the bulk was collected in the southern part (Cisamuria) of the area at hand. The Bureinskii Reserve lying in the upper reaches of the Bureya River has remained an absolutely unexplored, white blank area. Thus, the purpose of the present work is to provide a first check-list of spiders (54 species of 13 families) collected by the author in the Bureinskii Reserve and vicinities of Chegdomyn in 1999.

#### Material and methods

The present work is based on the material collected by the authors (L.T.) in the Bureinskii Reserve (BR), as well as in the

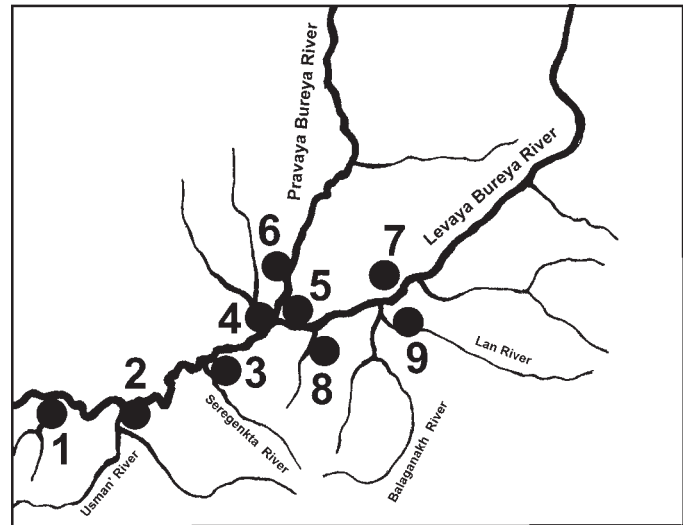
vicinities of Chegdomyn Vil., in June–July and October 1999. The Bureinskii Reserve lies in the central part of Khabarovsk Province (Map 1) and covers the area of 358.4 thousands ha. The basins of Pravaya and Levaya Bureya rivers at their upper reaches are included in the reserve.

Main localities are explained below and shown in the Map 2, with all them provided in the table in accordans to the given numbers.

- 1 — Bureya River Valley near the Levya Ussomakh River mouth, ca. 130 km NE of Chegdomyn Vil. [51°34'N, 133°43'E].
- 2 — Bureya River Valley near the Usman River mouth, ca. 160 km NE of Chegdomyn Vil. [51°32'N, 133°59'E].
- 3 — Bureya River Valley, near the Seregkta River mouth, ca. 190 km NE of Chegdomyn Vil. [51°37'N, 134°07'E].
- 4 — Bureya River Valley, ca. 210 km NE of Chegdomyn Vil., ca. 5 km downstream of the confluents of Pravaya and Levaya Bureya Rivers [51°40'N, 134°16'E].
- 5 — Pravaya Bureya River Valley, ca. 215 km NE of Chegdomyn Vil., 1.5–2 km upstream of the mouth [51°41'N, 134°19'E].
- 6 — Pravaya Bureya River Valley, ca. 217 km NE of Chegdomyn Vil., 3–5 km upstream of the mouth [51°42'N, 134°18'E].
- 7 — Levaya Bureya River Valley, ca. 250 km NE of Chegdomyn Vil., ca. 1.5 km upstream of the Lan River mouth [51°44'N, 134°32'E].
- 8 — Levaya Bureya River Valley, near the Chapkhoz River mouth, ca. 222 km NE of Chegdomyn Vil. [51°41'N, 134°23'E].
- 9 — Lan River Valley (3–5 km upstream of the mouth), ca. 250 km NE of Chegdomyn Vil. [51°41'N, 134°32'E].
- 10 — The vicinities of Chegdomyn [ca. 51°74'N, 133°05'E].

The following habitats were explored (these abbreviations are used in the table): A — anthropogenic landscapes; B — living buildings; C — banks of channels and sources; F — fir (*Picea jezoensis*) forests; LF — larch (*Larix gmelini*) forests; LR — open larch forests; P — pebble beds; S — sandy plots along riversides; St — stony debris and screes; W — willow and alder thickets.

Traditional methods were used for collecting of spiders: hand collecting, sweeping, sorting out soil samples, and shaking tree crowns. A list of encountered in 1999 species and their habitat distribution is given in the table. Altogether, 54 species from 30 genera are listed, of them 15 are first recorded for Khabarovsk Province [cf. Kim & Kurenschikov, 1995].



Map 2. Collections localities of the spiders in the Bureinskii Reserve.  
Карта 2. Точки сбора пауков в Буреинском заповеднике.

Map 1. Location of the Bureinskii Reserve in Khabarovsk Province, Russia.  
Карта 1. Местоположение Буреинского заповедника в Хабаровском крае.

All these species are provided with a more detailed information.

Materials used for this study have been distributed among the following museums and personal collections: PCLT — personal collection of the author; ISEA — Institute for Systematics and Ecology of Animals, Novosibirsk, Russia; BIB — the Buryatian Institute of Biology, Ulan-Ude, Russia; and ZMMU — the Zoological Museum of the Moscow University, Moscow, Russia.

Distributional data are given in accordance to the recent catalogue and its supplements by Mikhailov [1997, 1998, 1999, 2000].

### Check-list of species

All the encountered in 1999 and identified spider species are listed in the Table. Some of the interesting faunistic records are additionally discussed below in more details.

#### Family TETRAGNATHIDAE

##### *Pachygnatha clercki* (Sundevall, 1832)

MATERIAL. 3 ♀♀, 4 ♂♂ (PCLT), Khabarovsk Province, near Chegdomyn [10], 15.04–02.06.1999, L.T.

HABITAT. The spiders were collected by peat-fall traps in wet cereals associations (anthropogenic landscape).

DISTRIBUTION. A circum-Holarctic species; this is a first finding in in the continental regions of the Russian Far East.

#### Family ARANEIDAE

##### *Aculepeira packardi* (Thorell, 1875)

MATERIAL. 1 ♂ (PCLT), Khabarovsk Province, B.R., ca. 250 km NE of Chegdomyn, -1.5 km upstream of Lan River mouth [7], 03.07.1999, L.T.

HABITAT. The specimen was collected in the stony scree on the slope of the southern exposure.

DISTRIBUTION. A circum-Holarctic species; this is a first finding in in the continental regions of the Russian Far East.

#### Family LYCOSIDAE

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

MATERIAL. 1 ♀ (PCLT), Khabarovsk Province, ca. 210 km NE of Chegdomyn, -5 km downstream of the confluence of Pravaya and Levaya Bureya Rivers, 06.07.1999, L.T.

HABITAT. The only specimen was collected in the fir forest.

DISTRIBUTION. A Euro-Baikalian species; this is the easternmost record; hitherto recorded from the Barguzinskii Reserve [Šternbergs, 1981].

##### *Tarentula sibirica* (Kulczyński, 1908)

MATERIAL. 1 ♀, 6 ♂♂ (PCLT), Khabarovsk Province, B.R., ca. 250 km NE of Chegdomyn, -1.5 km upstream of Lan River mouth, 03.07.1999, L.T.; 1 ♂ (PCLT), same province, B.R., ca. 240 km NE of Chegdomyn, Lan River -3–5 km upstream of the mouth, 05.07.1999, L.T.; 1 ♂ (PCLT), same province, ca. 210 km NE of Chegdomyn, -5 km downstream of the confluents of Pravaya and Levaya Bureya Rivers, 06.07.1999, L.T.

Table. A check-list of species of the Bureinskii Reserve<sup>1</sup>.  
Таблица. Реестр видов Буреинского заповедника<sup>1</sup>.

Families and species	Number of specimens	Localities	Date	A	B	C	F	LF	LR	P	S	St	W
THERIDIIDAE													
<i>Steatoda bipunctata</i> (Linnaeus, 1756)	1 ♂, 3 ♀♀ (PCLT)	6	07–09.1999		*								
<i>Theridion impressum</i> (L. Koch, 1881)	1 ♂, 5 ♀♀ (PSLT)	4, 6, 8	06–07.1999						*	*			
LINYPHIIDAE													
<i>Neriere radiata</i> (Walckenaer, 1841)	1 ♀ (PSLT)	10	10.06.1999	*									
<i>Hypomma bituberculatum</i> (Wider, 1834)	1 ♂ (PCLT)	5	9.07.1999						*				
TETRAGNATHIDAE													
<i>Pachygnatha clercki</i> (Sundevall, 1823)	4 ♂♂, 3 ♀♀ (PSLT, ISEA)	10	15.04–2.06.1999	*									
<i>Tetragnatha extensa</i> (Linnaeus, 1758)	7 ♂♂, 8 ♀♀ (PSLT)	5	10.07.1999			*			*				
<i>T. isidis</i> (Simon, 1880)	1 ♂, 1 ♀ (PSLT)	5	10.07.1999			*							
<i>T. montana</i> Simon, 1874	4 ♀♀ (PSLT)	6, 9	13.07.1999			*		*	*				*
ARANEIDAE													
<i>Aculepeira armida</i> (Savigny & Audouin, 1826)	1 ♀ (PCLT)	4	7.07.1999						*				
<i>A. carbonarioides</i> (Keyserling, 1892)	1 ♀ (PCLT)	6	1.07.1999			*							
<i>A. packardi</i> (Thorell, 1875)	1 ♂ (PCLT)	7	3.07.1999									*	
<i>Araneus quadratus</i> Clerck, 1758	1 ♂, 2 ♀♀ (PCLT)	6, 10	06–07.1999	*					*				*
<i>Hypsosinga albovittata</i> (Westring, 1851)	1 ♂ (PCLT)	4	26.06.1999						*				
LYCOSIDAE													
<i>Acantholycosa aborigenica</i> (Zyuzin & Marusik, 1988)	1 ♂ (PCLT)	7	3.07.1999										*
<i>Pardosa chionophila</i> (L. Koch, 1879)	3 ♀♀ (PCLT, ISEA)	4, 9, 10	06–07.1999	*			*			*			
<i>P. indecora</i> (L. Koch, 1879)	5 ♀♀ (PCLT)	1, 4, 9	5–19.07.1999				*			*	*		
<i>P. lapponica</i> (Thorell, 1872)	4 ♂♂, 1 ♀ (PCLT, ISEA)	4, 6	7–18.07.1999				*		*				
<i>P. lasciva</i> (L. Koch, 1872)	1 ♀ (PCLT)	4	6.07.1999				*						
<i>P. lyrata</i> (Odenwall, 1901)	2 ♂♂ (PCLT)	4	6.07.1999				*						
<i>P. plumipes</i> (Thorell, 1875)	5 ♂♂, 4 ♀♀ (PCLT, ISEA)	10	10.06.1999	*		*							
<i>Tarentula aculeata</i> (Clerck, 1758)	3 ♂♂, 1 ♀ (PCLT)	4, 8, 9	06–07.1999				*		*				
<i>T. sibirica</i> Kulczynski, 1901	2 ♂♂, 1 ♀ (PCLT)	4, 7, 9	3–6.07.1999				*					*	
<i>T. solivaga</i> (Kulczynski, 1901)	6 ♀♀ (PCLT)	3	25.06.1999								*		
PISAURIDAE													
<i>Dolomedes strandi</i> (Bonnet, 1929)	1 ♂, 3 ♀♀ (PCLT)	5, 8, 10	05–08.1999	*		*							
<i>Pisaura ancora</i> (Paik, 1969)	5 ♀♀ (PCLT)	5, 10	06–07.1999	*		*		*	*				
AGELENIDAE													
<i>Tegenaria domestica</i> (Clerck, 1758)	2 ♂♂ (PCLT)	10	09–11.1999		*								
DICTYNIDAE													
<i>Dictyna arundinacea</i> (Linnaeus, 1758)	6 ♂♂, 6 ♀♀ (PCLT, BIB)	4	26.06.1999						*				

<sup>1</sup> For abbreviations of depositaria and habitats see Material and Methods.<sup>1</sup> Сокращения для музеев хранения и местообитаний объяснены в Материалах и Методах.

Table (continuation).  
Таблица (продолжение).

Families and species	Number of specimens	Localities	Date	A	B	C	F	LF	LR	P	S	St	W
DICTYNIDAE													
<i>D. major</i> Menge, 1869	1 ♀ (PCLT)	6	13.07.1999						*				
<i>D. pusilla</i> Thorell, 1856	1 ♀ (PCLT)	6	13.07.1999						*				
<i>Emblyna annulipes</i> (Blackwall, 1846)	1 ♂, 1 ♀ (BIB)	10	25.04.1999	*									
<i>E. zherikhini</i> (Marusik, 1988)	1 ♂ (BIB)	4	26.06.1999					*					
THOMISIDAE													
<i>Misumena vatia</i> (Clerck, 1758)	3 ♂♂, 4 ♀♀ (PCLT)	10	03–05.1999					*					*
<i>Ozyptila sincera</i> Kulczynski, 1926	4 ♂♂, 2 ♀♀ (PCLT)	1, 4	11.10.1999					*	*				
<i>Xysticus audax</i> (Schrank, 1803)	1 ♂ (ISEA)	10	18.06.1999					*					
<i>X. britcheri</i> Gertsch, 1934	4 ♂♂, 1 ♀ (PCLT)	1, 4	7.07.1999					*	*				
<i>X. emertoni</i> Keyserling, 1880	7 ♂♂, 8 ♀♀ (PCLT)	1, 4, 6, 8, 10	05–07.1999	*				*	*				
<i>X. hedini</i> Schenkel, 1936	1 ♂ (PCLT)	10	23.05.1999										*
<i>X. sibiricus</i> Kulczynski, 1908	4 ♀♀ (PCLT)	1	11.10.1999					*					
<i>X. soldatovi</i> Utotchkin, 1968	6 ♀♀ (PCLT)	4	06–07.1999	*			*						
PHILODROMIDAE													
<i>Philodromus cespitum</i> (Walckenaer, 1802)	1 ♀ (PCLT)	10	21.06.1999	*									
<i>P. emarginatus</i> (Schrank, 1803)	1 ♀ (PCLT)	10	21.06.1999					*					
<i>P. histrio</i> (Latreille, 1819)	2 ♀♀ (PCLT)	4, 5	6–12.07.1999					*	*				
<i>Thanatus bungei</i> (Kulczynski, 1908)	3 ♂♂ (PCLT)	7	3.07.1999										*
<i>T. coreanus</i> Paik, 1979	1 ♀ (ISEA)	7	3.07.1999										*
<i>Tibellus oblongus</i> (Walckenaer, 1802)	1 ♂, 2 ♀♀ (PCLT)	1, 5, 6	06–07.1999		*				*				
OXYOPIDAE													
<i>Oxyopes licenti</i> Schenkel, 1953	1 ♂, 1 ♀ (ISEA)	6, 10	06–07.1999	*					*				
CLUBIONIDAE													
<i>Cheiracanthium erraticum</i> (Walckenaer, 1802)	1 ♂, 1 ♀ (ISEA)	4	26.06.1999						*				
<i>Clubiona propinqua</i> L. Koch, 1879	2 ♀♀ (PCLT, ZMMU)	1	11.11.1999										*
GNAPHOSIDAE													
<i>Drassodes serratidens</i> Schenkel, 1963	1 ♂ (PCLT)	4	7.07.1999				*						
<i>Gnaphosa gracilior</i> Kulczynski, 1901	2 ♂♂, 1 ♀ (PCLT)	4, 6	6-14.07.1999				*		*				
<i>G. microps</i> Holm, 1939	10 ♂♂, 11 ♀♀ (PCLT)	1, 4, 6	07–10.1999					*	*				
<i>G. muscorum</i> (L. Koch, 1866)	1 ♂, 1 ♀ (PCLT)	4	27.06.1999				*						
<i>Micaria rossica</i> Thorell, 1875	2 ♂♂, 4 ♀♀ (PCLT)	4, 6, 10	06–07.1999	*				*					
<i>M. tripunctata</i> Holm, 1978	1 ♀ (BIB)	6	11.07.1999					*					
<i>Haplodrassus hiemalis</i> (Emerton, 1909)	1 ♂, 2 ♀♀ (BIB)	4, 5	06–07.1999				*	*	*				

**HABITAT.** *T. sibirica* is a common dweller of the steep stony slopes and screes of the southern exposure. The only specimen was collected in the fir forest.

**DISTRIBUTION.** Middle Siberia, the mountains of South Siberia, northeastern Siberia, the continental Far North-East (without Kamchatka). This is a south-easternmost record of the species.

#### Family PISAURIDAE

##### *Dolomedes strandi* (Bonnet, 1929)

**MATERIAL.** 3 ♂♂ juv. (PCLT), Khabarovsk Province, near Chegdomyn [10], 03.05.1999, L.T.; 1 ♀ (PCLT), same locality, 27.09.1999, L.T.

**HABITAT.** The adult female was collected in the anthropogenic landscape lying near the swamp. Numerous juveniles were found along the banks of overgrowing channels of Levaya and Pravaya Bureya Rivers in June–July. Overwintered specimens were collected from heaps of last year grass.

**DISTRIBUTION.** Continental areas of the Russian Far East. The recent record of this species by Renner [1988] turned out to be unceratin: Amur, Siberia. Therefore, our data clearly refine a distribution of the species in the Russian Far east.

#### Family DICTYNIDAE

##### *Emblyna zherichini* (Marusik, 1988)

**MATERIAL.** 1 ♂ (BIB), Khabarovsk Province, ca. 210 km NE of Chegdomyn, -5 km downstream of the confluents of Pravaya and Levaya Bureya Rivers, 26.06.1999, L.T.

**HABITAT.** A single specimen was collected by sweeping in the swamped *Ledum-Sphagnum* open larch forest.

**DISTRIBUTION.** *E. zherichini* has hitherto been recorded from Magadan Area, the northern part of Khabarovsk Territory [Marusik, 1988] and Yakutia [Marusik *et al.*, 1993]. The above finding provides the southernmost records of the species.

#### Family GNAPHOSIDAE

##### *Drassodes serratidens* (Schenkel, 1963)

**MATERIAL.** 1 ♂ (PCLT), Khabarovsk Province, ca. 210 km NE of Chegdomyn, -5 km downstream of the confluents of Pravaya and Levaya Bureya Rivers, 07.07.1999, L.T.

**HABITAT.** Collected by pit-fall traps put in the fir forest.

**DISTRIBUTION.** Hitherto known from China and Tuva [Marusik & Logunov, 1995], so the present finding is the easternmost record of the species.

##### *Gnaphosa microps* (Holm, 1939)

**MATERIAL.** 1 ♀, 2 ♂♂ (PCLT), Khabarovsk Province, ca. 130 km NE of Chegdomyn, near the Leviy Ussomach River mouth, 11.10.1999, L.T.; 9 ♀♀, 8 ♂♂ (PCLT), same province, ca. 210 km NE of Chegdomyn, -5 km downstream of the confluents of Pravaya and Levaya Bureya Rivers, 08.07–17.07.1999, L.T.; 1 ♀ (PCLT), same province, B.R., ca. 217 km NE of Chegdomyn, 14.07.1999, L.T.

**HABITAT.** This common species inhabits the moss litter of the larch forests, including open larch forests, as well as the fir forests bordering the open larch forest. Adult males and females are common in the first half of a summer (a single

female was also collected in the later summer), while juveniles are numerous in both summer and autumn.

**DISTRIBUTION.** A circum-Holarctic species; the present finding is the south-easternmost record in the Russian Far East.

#### Family THOMISIDAE

##### *Xysticus sibiricus* (Kulczyński, 1908)

**MATERIAL.** 4 ♀♀ (PCLT), Khabarovsk Province, ca. 130 km of Chegdomyn, near the Leviy Ussomach River mouth, 11.10.1999, L.T.

**HABITAT.** The spiders were collected in the moss litter of the larch forest, where they seem to overwinter. In the summer time, spiders occur in the crowns of larch trees.

**DISTRIBUTION.** Middle Siberia, the mountains of South Siberia, NE Siberia, Kamchatka, and Sakhalin. This is a first record in Cisamuria.

#### Family PHILODROMIDAE

##### *Thanatus bungei* (Kulczyński, 1885)

**MATERIAL.** 3 ♂♂ (PCLT, ISEA), Khabarovsk Province, B.R., ca. 250 km NE of Chegdomyn, -1.5 km upstream of the Lan River mouth [7], 03.07.1999, L.T.

**HABITAT.** The species is a dweller of the stony screes of the slopes of the southern exposure.

**DISTRIBUTION.** The Urals, Middle Siberia, the mountains of South Siberia, NE Siberia (except for Kamchatka). The present finding is a southernmost record of the species to the east of Baikal Lake.

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