

Spiders (Araneae) from Central Yakutia, Siberia

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A spider collection from the central parts of Yakutia, Siberia, includes 183 species, of which 130 have not been previously recorded from Yakutia. The species are listed together with collecting localities and with the first published record from Yakutia.

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1. Introduction

Yakutia, comprising the northeastern part of Central Siberia, consists of an area of about 3 100 000 km². Yakutia borders in the south on the Amur region and in the north on the Arctic Ocean. Very little up to now has been known about the spider fauna of this huge area. The paper by Kulczynski (1908), who recorded 60 species (26 of the present species) from Yakutia, can be mentioned. In addition, some data have been published, especially by Russian authors, in recent years.

The senior author collected spiders in July 1977 in the central parts of Yakutia. The study area lies mainly in the taiga zone, dominated by larch forests. In addition to forests, steppes, meadows, pastures, bogs, shore habitats as well as villages were included in the collecting habitats.

2. Study area, material and methods

The collecting areas can be divided into three groups: localities near Yakutsk (no. 1–3, 7), Lyampeshka River (4) and sites on the Vilyuy

River (5–6), see Fig. 1. Material was collected using sweep-netting, sieving moss and litter, and hand-picking. The study sites were:

- 1) Oktemtsy, about 50 km SW of Yakutsk in the valley of the Lena River, about 61°30'N, 129°30'E: river-side steppes, pastures, *Salix viminalis* bushes, slopes between steppe and taiga, marginal parts of *Larix*-dominated taiga forest with meadows and "alas"-ponds. Collecting period: 7–10 & 13 July 1977.
- 2) Ulakhan-An, about 100 km SW of Yakutsk: *Larix* taiga, river valley with meadows; 11 July 1977.
- 3) 20 km S of Bulgunyakhtakh (80 km S of Oktemtsy), the Lena River valley: cambrian cliffs, river-shore stone beds, taiga edge; 12 July 1977.
- 4) Lyampeshka (Lepiske) River joining the Lena River, about 64°40'N, 125°30'E: river-side meadows with *Salix viminalis*, taiga (*Larix*, *Picea*, *Pinus*, also *P. pumila*, and *Betula*), pine bogs, swamps, "alas"-ponds; 15–20 July 1977.
- 5) El'gyay, in the valley of the Vilyuy River, about 62°20'N, 117°40'E: meadows, "alas"-ponds, taiga; 26–28 July 1977.

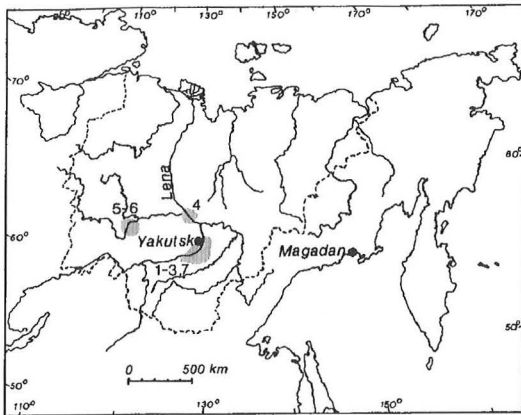


Fig. 1. Location of the study areas (shaded) in Yakutia (border indicated by broken line). The numbers refer to the collecting sites (see Study area, material and methods).

- 7) 20–40 km N of Yakutsk: moist meadow, dry meadow and “alas”-pond, fen, peat-bog; 30 July 1977.

The material is mainly deposited in the Zoological Museum, University of Turku.

3. Spider fauna of Central Yakutia

The spiders found are listed in Table 1. The total number of species is 183, of which 130 are new to Yakutia. Linyphiidae (s. lat.) dominated species numbers (67 species or 37% of total). Other species-rich families were Lycosidae (17 species), Araneidae (15), Salticidae (15), Philodromidae (14), Gnaphosidae (12) and Theridiidae (11).

A few species hitherto known only from the West Palearcticum, like *Trichonchus hackmani*, *Sitticus distinguendus* and *Robertus scoticus*, are new to the fauna of Siberia. Many of the present species have previously been found in Siberia only in the Magadan area (Marusik & Eskov unpubl.). About half of the species found in Yakutia are known also from Fennoscandia.

Four species were collected at six of the total of seven sites and eight species at five sites; as many as 101 species were found at one site only. The special character of site 4 (Lyampeshka

River) is indicated by the great number (41) of species found only there compared to site 1 (Oktemtsy: 21).

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Table 1. List of species collected from Yakutia in 1977. The sites and the first published record from Yakutia are also given: * = this report, O.&M.'88 = Ovtsharenko & Marusik 1988, H.&O.'85 = Hippa & Oksala 1985.

Family/species	Sites	First record	Family/species	Sites	First record
Amaurobiidae (2)			<i>G. proxima</i> Kulczynski 4 Kulczynski'08		
<i>Arctobius agelenoides</i> (Emerton)	4,6	*	<i>G. sticta</i> Kulczynski	4	Kulczynski'08
<i>Titanoeca nivalis</i> Simon	4	*	<i>Haplodrassus hiemalis</i> (Emerton)	4	*
Araneidae (15)			<i>H. moderatus</i> (Kulczynski) (?)	4	*
<i>Aculepeira packardii</i> (Thorell)	1,2,5,6,7	Kulczynski'08	<i>Micaria lenzi</i> Bösenberg	1,3	*
<i>Araneus alsine</i> (Walckenaer)	2,3	*	<i>M. rossica</i> Thorell	1,4,5	*
<i>A. marmoreus</i> (Clerck)	1,3,4,5	*	<i>Zelotes potanini</i> Schenkel	3	*
<i>A. nordmanni</i> (Clerck)	1,2,4	*	Hahniidae (1)		
<i>A. yukon</i> Levi	1,2,4,6	Kulczynski'08 (as <i>A. quadratus</i>)	<i>Hahnia ononidum</i> Simon	4	*
<i>Araniella displicata</i> (Hentz)	1,2,3,4,6,7	Kulczynski'08	Linyphiidae (Linyphiinae) (20)		
<i>Atea</i> sp.	1,4	*	<i>Agyneta olivacea</i> (Emerton)	1,4,6	H.&O.'85 (present material)
<i>Cercidia prominens</i> (Westring)	4	*	<i>A. affinisoides</i> Tanasevitch	1	*
<i>Cyclosa conica</i> (Pallas)	1,3,4	*	<i>Allomengea scopigera</i> (Grube)	1	*
<i>C. oculata</i> (Walckenaer)	7	*	<i>Bathypantes setiger</i> F.O.P.-Cambr.	6	*
<i>Cyphopeira silvicultrix</i> (C. L. Koch)	1	*	<i>Estrandia grandaeva</i> (Keyserling)	4	*
<i>Hypsosinga albovitata</i> (Westring)	7	*	<i>Kaestneria anceps</i> (Kulczynski)	6	*
<i>Larioides cornutus</i> (Clerck)	1,3,4,5,6,7	Kulczynski'08	<i>Lepthyphantes dybowskii</i> (O.P.-Cambr.)	4	*
<i>L. patagiatus</i> (Clerck)	1,4,5,6	Kulczynski'08	<i>L. karpinskii</i> (O.P.-Cambridge)	4,6	*
<i>Singa hamata</i> (Clerck)	3,4	*	<i>L. kochiellus</i> Strand	1,4,6	*
Argyronetidae (1)			<i>L. nebulosus</i> (Sundevall)	6	*
<i>Argyroneta aquatica</i> (Clerck)	1	Kulczynski'08	<i>L. taczanowskii</i> (O.P.-Cambridge)	4,6	*
Clubionidae (5)			<i>L. unicornis</i> (O.P.-Cambridge)	1,6	*
<i>Cheiracanthium</i> cf. <i>erraticum</i>	1,5,6,7	*	<i>Macrargus multesimus</i>		
<i>Clubiona interjecta</i> L. Koch	1,4,5,6	Kulczynski'08	(O.P.-Cambridge)	4	*
<i>C. kulczynskii</i> de Lessert	3,4,6	Mikhailov'91	<i>Microlinyphia impigra</i> (O.P.-Cambridge)	5	*
<i>C. latericia</i> Kulczynski	4,5	Mikhailov'90	<i>M. pusilla</i> (Sundevall)	1,2,4,6,7	*
<i>C. riparia</i> L. Koch	1,4	*	<i>Oreonetides helsdingeni</i> Eskov	4	*
Dictynidae (7)			<i>O. vaginatus</i> (Thorell)	1	*
<i>Argenna prominula</i> Tullgren	6	*	<i>Pityohyphantes phrygianus</i>		
<i>Dictyna alaska</i> Chamberlin & Ivie	4	*	(C. L. Koch)	4,6	*
<i>D. arundinacea</i> (Linnaeus)	2,7	*	<i>Poecilometes tanasevitchi</i> Marusik	4	*
<i>D. major</i> Menge	4	Kulczynski'08 (as <i>D. sibirica</i>)	<i>Porrhomma borealis</i> (Banks)	2	*
<i>D. pusilla</i> Thorell	4	*	Linyphiidae (Erigoninae) (47)		
<i>D. uncinata</i> Thorell	4	*	<i>Carorita limnea</i> (Crosby & Bishop)	4,7	*
<i>Emblyna annulipes</i> (Blackwall)	4	*	<i>Ceratinops</i> sp.	4	*
Dolomedidae (1)			<i>Diplocentria bidentata</i> (Emerton)	6	*
<i>Dolomedes buhkaloi</i> Marusik	1,4,5,6,7	Kulczynski'08 (as <i>D. fimbriatus</i>)	<i>Diplocephalus subrostratus</i>		
Gnaphosidae (12)			(O.P.-Cambridge)	6	*
<i>Drassodes neglectus</i> (Keyserling)	1	O.&M.'88	<i>D. uliginosus</i> Eskov	1,4	*
<i>D. pubescens</i> (Thorell)	5,6	*	<i>Dismodicus bifrons</i> (Blackwall)	4	*
<i>Callilepis nocturna</i> (Linnaeus)	4	*	<i>Enidia bituberculata</i> (Wider)	3,4,6	*
<i>Gnaphosa nigerima</i> L. Koch	5,6	*	<i>Entelecara media</i> Kulczynski	4	Eskov'88
<i>G. muscorum</i> (L. Koch)	1,5	*	<i>Erigone arctica</i> Chamberlin & Ivie	5	*
			<i>E. atra</i> Blackwall	2,4,5,6,7	*
			<i>Glyphesis asiaticus</i> Eskov	7	*
			<i>Gnathonarium dentatum</i> (Wider)	1,7	*

Family/species	Sites	First record	Family/species	Sites	First record
<i>G. taczanowskii</i> (O.P.-Cambridge)	5	*	<i>P. aryy</i> Marusik	2	Marusik'91
<i>Hilaria devitata</i> Eskov	4	*	<i>P. aureolus</i> (Clerck)	1,2,4	*
<i>H. herniosa</i> (Thorell)	1,6	*	<i>P. cespitum</i> (Walckenaer)	4	Kulczynski'08
<i>H. holmi</i> Eskov	4	*	(as <i>P. aureolus sibirica</i>)		
<i>H. minuta</i> Eskov	4,6	*	<i>P. fuscomarginatus</i> (de Geer)	1	Marusik'91
<i>H. tatica</i> Kulczynski	6	*	<i>P. histrio</i> (Latreille)	1	Marusik'91
<i>Hilaira</i> sp.	6	*	<i>P. mysticus</i> Dondale & Redner	3	Marusik'91
<i>Hybauchenidium aquilonare</i> (L. Koch)	4	Eskov'85	<i>P. praedatus</i> (O.P.-Cambridge)	1,4,5,6	*
<i>Hypselistes jacksoni</i> (O.P.-Cambr.)	3,4,6	*	<i>P. vinokurovi</i> Marusik	1,4	Marusik'91
<i>Lasiargus laricetorum</i> Eskov	6	*	<i>Thanatus albomaculatus</i> Kulczynski	1	Kulczynski'08
<i>Maso sundevalli</i> (Westring)	4	*	<i>T. mediocris</i> Kulczynski	4	Kulczynski'08
<i>Minicia exarmata</i> Eskov	3	*	<i>Tibellus asiaticus</i> Kulczynski	4,7	Kulczynski'08
<i>Minyrioloides trifrons</i> (O.P.-Cambridge)	4	*	<i>T. maritimus</i> (Menge)	6	Marusik'91
<i>Notioscopus jamalensis</i> Grese	4,6	*	Salticidae (15)		
<i>Oedothorax retusus</i> (Westring)	5,6	*	<i>Bianor stepposus</i> Logunov	1,2	*
<i>Praestigia pini</i> (Holm)	2	*	<i>Dendryphantas fusconotatus</i> (Grube)	1,2,3,4,7	Proszynski'79
<i>Proceracymbium sibiricus</i> Eskov	1	*	<i>D. rudis</i> (Sundevall)	1	Proszynski'79
<i>Savignya nenilini</i> Marusik	1,7	*	<i>Evarcha arcuata</i> (Clerck)	1,2,4,7	Proszynski'79
<i>Scotinotylus alienus</i> (Kulczynski)	7	*	<i>Heliophanus baicalensis</i> Kulczynski	1	*
<i>Scotinotylus</i> sp.	1	*	<i>H. camtschadalicus</i> Kulczynski	4	Proszynski'79
<i>Dactylopisthes video</i> (Chamb. & Ivie)	2,4	*	<i>H. lineiventris</i> Simon	1	*
<i>Silometopus sibiricus</i> Eskov	4,7	*	<i>H. patagiatus</i> Thorell	4	*
<i>Tibioploides arcuatus</i> (Tullgren)	4	*	<i>Marpissa pomatia</i> (Walckenaer)	1,4	Proszynski'79
<i>Tmeticus affinis</i> (Blackwall)	5	*	<i>Pellenes ingnifrons</i> (Grube)	5,6	Proszynski'79
<i>T. tolli</i> Kulczynski (?)	7	Kulczynski'08	<i>Phlegra fuscipes</i> Kulczynski	1	*
<i>Trichoncus hackmani</i> Millidge	2	*	<i>Sitticus cutleri</i> Proszynski	1,4	*
<i>Tubercithorax furcifer</i> Eskov	4	*	<i>S. distinguensis</i> (Simon)	3	*
<i>Veles wagae</i> (O.P.-Cambridge)	1	*	<i>S. finschi</i> (L. Koch)	5	Kulczynski'08
<i>Walckenaeria clavicornis</i> (Emerton)	4	*	<i>S. floricola</i> (C. L. Koch)	1,4,6	Proszynski'79
<i>W. fraudatrix</i> Millidge	4	*	Tetragnathidae (4)		
<i>W. holmi</i> Millidge	4,7	*	<i>Pachygnatha clercki</i> Sundevall	5,6	Kulczynski'08
<i>W. lepida</i> (Kulczynski)	4	*	<i>Tetragnatha dearmata</i> Thorell	1,2,4,6	*
<i>Zornella cultrigera</i> (L. Koch)	1	*	<i>T. extensa</i> (Linnaeus)	1,2,3,4,5,6	Kulczynski'08
Erigoninae sp. 1	7	*	<i>T. pinicola</i> L. Koch	1	*
Erigoninae sp. 2	4	*	Theridiidae (11)		
Lycosidae (17)			<i>Robertus sibiricus</i> Eskov	4,7	Eskov'87
<i>Alopecosa albostrigata</i> (Grube)	4	Kulczynski'08	<i>R. scoticus</i> Jackson	6	*
<i>A. borea</i> (Kulczynski)	1	Kulczynski'08	<i>Steatoda albomaculata</i> (de Geer)	1,2	*
<i>A. sibirica</i> (Kulczynski)	3	Kulczynski'08	<i>S. bipunctata</i> (Linnaeus)	6	*
<i>Pardosa adustella</i> Roewer	1,3,4,5,7	*	<i>Theridion impressum</i> L. Koch	1,2,3,5,6,7	*
<i>P. andersoni</i> Gertsch	5,6	*	<i>T. ohlerti</i> Thorell	1,4,5	*
<i>P. atrata</i> (Thorell)	1,5,6,7	*	<i>T. petraeum</i> L. Koch	7	*
<i>P. lapponica</i> (Thorell)	2,7	*	<i>T. pictum</i> (Walckenaer)	1,2,4,5,6	*
<i>P. lasciva</i> L. Koch	6	*	<i>T. sibiricum</i> Marusik	3	*
<i>P. lyrata</i> (Odenwall)	4	*	<i>T. varians</i> Hahn	1,4,6	*
<i>P. plumipes</i> (Thorell)	1,3,5,6	Koponen&a'90 (present material)	<i>Thymoites bellisimum</i> (L. Koch)	4	*
<i>P. schenkeli</i> de Lessert	1,5,7	*	Thomisidae (9)		
<i>P. sodalis</i> Holm	4	Kronestedt'86 (present material)	<i>Heriaeus mellottei</i> Simon	1	*
<i>P. tesquorum</i> (Odenwall)	1,3,4	Kulczynski'08	<i>Misumena vatia</i> (Clerck)	1,2,4,6,7	*
<i>Pardosa</i> n. sp.	3	*	<i>Ozyptila sincera</i> Kulczynski	1,2,4	*
(will be described by A. A. Zyuzin)			<i>Tmarus rimosus</i> Paik (?)	1	*
<i>Pirata piraticus</i> (Clerck)	1,5,6	*	<i>Xysticus audax</i> (Schrank)	1,2	*
<i>P. praedo</i> Kulczynski	5	*	<i>X. britcheri</i> Gertsch	1,4	*
<i>Xerolycosa nemoralis</i> (Westring)	6	*	<i>X. emertoni</i> Keyserling	4,6	Kulczynski'08 (as <i>X. excellans</i>)
Oxyopidae (1)			<i>X. ephippiatus</i> Simon	1	*
<i>Oxyopes</i> cf. <i>ramosus</i>	1,2,4,7	Kulczynski'08 (as <i>O. ramosus</i>)	<i>X. vachoni</i> Schenkel	1,7	Utochtkin'68 (as <i>X. jacuticus</i>)
Philodromidae (14)			Zoridae (1)		
<i>Apollophanes lenensis</i> Marusik	1,2	Marusik'91 (present material)	<i>Zora</i> cf. <i>nemoralis</i>	4	*
<i>Philodromus alascensis</i> Keyserling	4	Kulczynski'08 (as <i>P. varians</i>)			