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A new species of wolf-spider (*Alopecosa ogorodica* sp.n.) from the Russian Mountain Altai with remarks on *Arctosa meitanensis* Yin *et al.*, 1993 (Araneae: Lycosidae)

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Abstract

Alopecosa ogorodica sp.n. (♂♀), a new wolf-spider species (Lycosidae) from the Russian Mountain Altai is described. New data, diagnosis, description and drawings on *Arctosa meitanensis* Yin *et al.*, 1993 are provided.

Key words: spiders, Lycosidae, new species, *Alopecosa*, *Arctosa*, Alta

Introduction

The lycosid spider fauna of the Russian Mountain Altai has been rather well studied and currently includes 78 species (Azarkina & Trilikauskas 2013b), of which 19 *Alopecosa* species and 6 *Arctosa* species were recorded correspondingly (Levina & Mikhailov 2004; Volkovsky & Romanenko 2010; Volynkin *et al.*, 2011; Azarkina & Trilikauskas 2013a). Brief taxonomic reviews of *Alopecosa* and *Arctosa* in different regions of the Palearctic have been prepared by Nadolny *et al.* (2012) and Wang *et al.* (2012). The aim of this paper is to diagnose and describe a new species of *Alopecosa*, *A. ogorodica* sp. n., based on newly collected material from the vicinity of the town of Gorno-Altaiisk and provide new drawings and new western- and northernmost records of *Arctosa meitanensis* Yin *et al.*, 1993.

Material and methods

The material studied in this paper was deposited in the Institute of Systematic and Ecology of Animals SB RAS (ISEA), Novosibirsk, Russia (G.N. Azarkina). Specimens were studied in ethanol and their coloration refers to that of the preserved specimens. All drawings were made with the aid of a reticular eyepiece attached to an MBS-10 stereomicroscope. Microphotographs were made with SEM Hitachi TM-1000.

The drawings were edited with Adobe Photoshop. The terminology follows Kronstedt (1990) and Logunov (2010). Abbreviations used in the text: ALE, anterior lateral eyes; AME, anterior median eyes; ap, apical; Co, conductor; d, dorsal; Em, embolus; p, prolateral; PLE, posterior lateral eyes; PME, posterior median eyes; r, retrolateral; Ta, terminal apophysis; Tg, tegulum; TgA, tegular apophysis; Se, synembolus; St, subtegulum; v, ventral.

Taxonomy

Alopecosa ogorodica sp. n.

Figures 1–15, 17–20

Type material: Holotype ♂ (ISEA, 000.856) Russia, Altai Republic, vicinity of Gorno-Altaiisk, 400 m a.s.l.,

Female. Total length 7.10. Carapace: 3.50 long, 2.00 wide. Abdomen 3.60 long. Carapace light brown, with yellowish marginal bands (Fig. 23). Eye region black. Eye interdistances: AME 0.06, ALE 0.09, PME 0.15, PLE 0.12; AME-AME 0.04, AME-ALE 0.04, PME-PME 0.12, PME-PLE 0.23. Clypeus height 0.5. Chelicerae elongate, brown, with two promarginal and three retromarginal teeth. Labium and sternum yellowish (Fig. 24). Legs yellowish with grey rings. Abdomen grey, with numerous yellowish spots. Epigyne as in Figs 29–30.

Length of leg segments.

	femur	patella	tibia	metatarsus	tarsus	Total
I	2.00	1.20	1.80	1.10	0.90	7.00
II	1.90	1.20	1.50	1.20	0.80	6.60
III	1.80	1.00	1.30	1.20	0.80	6.10
IV	2.50	1.40	1.70	2.20	1.00	8.80

Female leg spination.

	femur	patella	tibia	metatarsus
I	d1, p1			
II	d1, p1			
III	d2-2ap	p1, r1	d2-3-1ap, v2-2	d2-2-2ap, v2-2-2ap
IV	d2-2ap	p1, r1	d2-3-1ap, v2-2	d2-2-2ap, v2-2-2ap

Habitats. Wormwood-woodreed steppe meadow and motley grass in pine forest near Lake Teletskoye.

Comments. This species described by female from Guizhou Province of China (Yin *et al.*, 1993). Later Chen & Song (1999) described male from Henan Province, China. Because of the lack of a proper description and drawings, here we provide a redescription of both sexes together with drawings and photos of specimens newly collected from Altai Mountains. This is the western- and northernmost records for this species.

Russian specimens of *Arctosa meitanensis* differ somewhat from those depicted in Yin *et al.* (1993) and Chen & Song (1999); however, unpublished images of the pedipalps of males from South China (Z.S. Zhang pers. comm.) show that the Ta and Se are quite variable and that Russian specimens fall within that variation.

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