

The first record of *Argiope lobata* (Pallas, 1772) (Aranei: Araneidae) for Tyumenskaya Oblast in West Siberia, Russia

Первая находка *Argiope lobata* (Pallas, 1772) (Aranei: Araneidae) в Тюменской области (Западная Сибирь, Россия)

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Ключевые слова: *Argiope lobata*, аргиопа дольчатая, пауки, Тюменская область, Западная Сибирь.

Abstract. A female of *Argiope lobata* (Pallas, 1772) collected in August 2017 near Pervomaiskii village in Vagayskii District is first record of the species for Tyumenskaya Oblast in West Siberia, Russia. This is the northernmost record of the species which is limited to the southern taiga forests and aspen-birch subtaiga forests.

Резюме. Приведены сведения о первой находке *Argiope lobata* (Pallas, 1772) в Тюменской области. Одна самка отловлена в августе 2017 года в окрестностях п. Первомайский (Вагайский район). Указанное местонахождение вида располагается на стыке южно-таёжных и подтаёжных осиново-берёзовых лесов и является самой северной за пределами основного ареала.

The orb-weaver spider *Argiope lobata* (Pallas, 1772) is one of two representatives of the genus *Argiope* found in the fauna of Russia [Mikhailov, 2013; Tiunov, Esyunin, 2015]. This species is widespread in the Old World: Southern Europe to Central Asia and China, northern Africa, South Africa, Israel, India, from Myanmar to New Caledonia and northern Australia [World Spider Catalog, 2020].

On the territory of Russia, *Argiope lobata* is found in the southern regions mainly within the steppe and forest-steppe natural zones from Crimea to Lake Baikal [Esyunin, Efimik, 1996; Marusik, Kovblyuk, 2011, Kovblyuk et al., 2015; Tiunov, Esyunin, 2015; Tiunov, Turaeva, 2015]. Until the 70s of the last century, the northern border of the distribution of the species in the European part of Russia passed approximately N 52° [Tyshchenko, 1971]. In subsequent years, Lobed Argiope was noted significantly north of the indicated latitude on the territory of Tatarstan [Bespyatykh, 2016], Tul'skaya Oblast [Mikhailov, Panov, 2014] and Chuvashia [Borisova, 2016]. The last location of the species is the most northern and is located in a forest zone near N 56°.

In the Asian part of Russia, *Argiope lobata* was found in the Altajskii Krai and the Novosibirskaya Oblast [Azarkina, Trilikauskas, 2012; Azarkina et al., 2018], and there is also one find in the Irkutskaya Oblast near Lake

Baikal [Tiunov, Esyunin, 2015]. All known locations of species in the Asian part of the area do not go beyond N 54°.

During the expedition in August 2017, for the first time in the Tyumenskaya Oblast we discovered Lobed Argiope. Label data: 1 female, Russia, Tyumenskaya Oblast, Vagayskii Distr., 1.5 km southeast of the village Pervomayskii (57°23'24" N, 69°04'09" E). 16.VIII.2017. On the dry gramineous-herbous meadow on the left high bank of the River Vagai. Collected: V.I. Kapitonov, O.A. Kapitonova. Defined by A.N. Sozontov. The material is stored in the zoological collection of the Tobolsk Complex Scientific Station of the Ural Branch of the Russian Academy of Sciences (Tobolsk).

The location of the species in the Tyumen Area is located at the turn of the southern taiga and subtaiga small-leaved (aspen-birch) forests and is currently the most northern outside the main range. There are no large settlements and transport highways in the catching area of the Lobed Argiope, and it is unlikely that the spider will accidentally drift because of human activities. Apparently, the emergence of *Argiope lobata* in the forest zone is associated with a natural expansion of the species area to the north against the background of the global climate changes. The valleys of medium and large rivers flowing meridionally can serve as an ecological corridor for the distribution of southern species in the northern direction.

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