

## Arachnid types in the Zoological Museum of the Moscow State University, Russia. VI. Opiliones 2 (Arachnida)

### Типы паукообразных в Зоологическом музее МГУ, Россия. VI. Opiliones 2 (Arachnida)

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КЛЮЧЕВЫЕ СЛОВА: паукообразные, сенокосцы, музейные коллекции, типы, голотипы, паратипы.

**ABSTRACT:** A catalogue of 12 holotypes and 19 paratypes, belonging to 13 harvestman (Opiliones) species in 2 families (Nemastomatidae, Phalangiidae) from the collection of the Zoological Museum of the Moscow State University is provided. Other depositories housing the remaining types of the listed species are given as well.

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**РЕЗЮМЕ:** Представлен список 12 голотипов и 19 паратипов, относящихся к 13 видам сенокосцев (Opiliones). Они принадлежат к 2 семействам (Nemastomatidae, Phalangiidae) и хранятся в Зоологическом музее МГУ. Также перечислены другие хранилища, в которых размещены остальные типы указанных видов.

This paper is the sixth in a series devoted to the arachnid types held at the Zoological Museum of Moscow State University and completes the section on the harvestman type collection. The Museum's harvestman collection is rather moderate, being smaller than those of both the Zoological Institute of the Russian Academy of Sciences in St. Petersburg and the Institute of Animal Systematics and Ecology, the Siberian Branch of the Russian Academy of Sciences in Novosibirsk. In the first part, the types of 25 harvestman species were listed [Mikhailov, 2016a]. A new list given herein includes 13 species, bringing a total number to 38 species. As indicated earlier [Mikhailov, Ivanov, 2018], Museum's invertebrate type collections include holo-, para- and syntypes of over 3,000 species, of which over 1,000 species belong to Arachnida, mostly to Aranei. The Museum's arachnid collection was founded in the 1860s and currently contains more than 280,000 specimens, exclusive of Acari (present data).

Traditionally, at least since the 1930s, the following handwritten documentation has been accepted in the Museum: (1) departmental registers, (2) numerous inventory books on diverse invertebrate groups, and (3) the type index cards (see Mikhailov [2016a] for further details). Unfortunately, only a small part of this documentation has been digitized to date (see Mikhailov [2016b] for further details). For Opiliones, the index Tk is used in the inventory books of the Zoological Museum of the Moscow State University.

### Methods

The following sequence of data is accepted in the type catalogue: a species name in the original description; a reference to the first description; transcription of data labels; list of other collections where the remaining types of the respective species are kept; remarks; current taxonomic status of the species.

When necessary, label abbreviations are put in angled brackets, <>. Author's comments to the labels are given in double square brackets, [[]]. English translations of the original Russian labels are provided in figure brackets, {}.

Museums or personal collections are abbreviated as follows: HUJI — National Natural History Collections, Hebrew University of Jerusalem, Israel (curator E. Gavish-Regev); ISEA — Institute of Animal Systematics and Ecology, Siberian Branch, Russian Academy of Sciences (Novosibirsk, Russia, curator G.N. Azarkina); IZB — Institute of Zoology, National Academy of Sciences of Azerbaijan (Baku, Azerbaijan, curator N.Yu. Snegovaya); NSPC — the personal collection of Nataly Snegovaya (Baku, Azerbaijan); SMF — Senckenberg Museum (Frankfurt am Main, Germany, curator P. Jäger); TAC — collection of Turkish Arachnological Society; TTU — Invertebrate Zoology, Natural Science Research Laboratory, Museum of Texas Tech University (Lubbock, USA, collection manager J. Giron); ZIN — Zoological Institute, the Russian Academy of Sciences (St. Petersburg, Russia, curator †V.A. Krivokhatsky); ZMMU — Zoological Museum, Moscow State University (Moscow, Russia, curator K.G. Mikhailov). In the ZMMU, museum accession numbers for Opiliones are indexed with 'Tk' which

is put at the beginning of museum labels. Labels are transcribed literally, with mistakes pointed out in the comments.

The following translations of the administrative units are used hereinafter: Area for “область, oblast”, District for “район, rayon”, Province for “край, край”.

## Type catalogue

*airyamani* Snegovaya, Cokendolpher et Zamani, 2021, **Homolophus**

Snegovaya *et al.*, 2021: 80–82, figs 4A–K, 5.

Tk-96. Holotype ♂, Iran, Hormozgan Prov., 75 km N of Bandar Abbas, Siahu, 600–700 m, A. Zamani leg., 30.1.2020.

Paratypes (2 ♂♂, 1 juv.) are kept in NSPC.

CURRENT STATUS. *Homolophus airyamani* Snegovaya, Cokendolpher et Zamani, 2021 (Phalangiidae).

*gruberi* Snegovaya et Marusik, 2012, **Histicostoma**

Snegovaya, Marusik, 2012: 62–63, figs 11–17.

Tk-93. Holotype ♂, Turkey [T-15] Aydı̇n, Kuşadası Dilek Peninsula Büyük Menderes Delta National Park, 37°41.735' N 27°09.802' E, 106 m, 7.06.2009<> Yu.M. Marusik.

Tk-94. Paratypes 2 ♂♂, 2 ♀♀, Turkey [T-15] Aydı̇n, Kuşadası Dilek Peninsula Büyük Menderes Delta National Park, 37°41.735' N 27°09.802' E, 106 m, 7.06.2009<> Yu.M. Marusik.

Tk-95. Paratypes 1 ♂, 2 ♀♀, Turkey [T-15] Aydı̇n, Kuşadası Dilek Peninsula Büyük Menderes Delta National Park, 37°41.735' N 27°09.802' E, 106 m, 7.06.2009<> Yu.M. Marusik.

Other paratypes are kept in NSPC (1 ♂, 1 ♀) and TAC (provisionally 2 ♂♂, 2 ♀♀, specimens don't received — K.B. Kunt, pers. comm.).

CURRENT STATUS. *Histicostoma gruberi* Snegovaya et Marusik, 2012 (Nemastomatidae).

*karakalensis* Tchemeris et Snegovaya, 2010, **Graecophalangium**

Tchemeris, Snegovaya, 2010: 69–70, figs 10–26, 35.

Tk-87. Holotype ♂, Копетдаг, С п. Кара-Кала, хр. Кара-Ельчи, Ю. склоны г. Исак {Kopetdagh, N of Kara-Kala, Kara-Elchi Mt. Ridge, S slopes of Isak Mt.}, 3–5.V.1988, собр. И.В. Муратов {coll. I.V. Muratov}.

Tk-88. Paratype ♀, Копетдаг, С п. Кара-Кала, хр. Кара-Ельчи, Ю. склоны г. Исак {Kopetdagh, N of Kara-Kala, Kara-Elchi Mt. Ridge, S slopes of Isak Mt.}, 3–5.V.1988, собр. И.В. Муратов {coll. I.V. Muratov}.

Tk-89. Paratypes 2 ♂♂, USSR, Turkmenia, SW Kopetdagh, N of Kara-Kala, S slope of Kara-Yalchi Mt. Ridge, near Parkhai, piedmonts, 10–17.V.1990. T. Lukarevskaya leg.

Tk-90. Paratypes 1 ♂, 1 ♀, Turkmenia, SW Kopetdagh, Damdom, 800 m, 27.05.1985, leg. T. Lukarevskaya.

The types are kept in ZMMU only; one paratype male is missing, possibly in NSPC.

CURRENT STATUS. *Graecophalangium karakalensis* Tchemeris et Snegovaya, 2010 (Phalangiidae).

*kratochvili* Snegovaya in Snegovaya et Chumachenko, 2011, **Giljarovia**

Snegovaya, Chumachenko, 2011: 119, figs 28–36.

Tk-76. Holotype ♂, Russia, Sochi, yew and box-tree grove, beech forest, Jule [[sic!]] 2006, soil trap № 6, leg. Yu. Chumachenko.

Tk-77. Paratype ♀, Russia, Sochi, yew and box-tree grove, beech forest, soil trap № 9, 2006, leg. Yu. Chumachenko.

Other paratypes are kept in ZIN, NSPC, SMF and TTU.

CURRENT STATUS. *Giljarovia kratochvili* Snegovaya in Snegovaya et Chumachenko, 2011 (Nemastomatidae).

*martensi* Snegovaya in Snegovaya et Chumachenko, 2011, **Caucnemastoma**

Snegovaya, Chumachenko, 2011: 119–121, figs 37–47.

Tk-74. Holotype ♂, Russia, Sochi, yew and box-tree grove, yew-beech, September 2006, soil trap № 8, leg. Yu. Chumachenko.

Tk-75. Paratype ♀, Russia, Sochi, yew and box-tree grove, yew-beech, October 2006, soil trap № 2, leg. Yu. Chumachenko.

Other paratypes are kept in ZIN, NSPC, SMF and TTU.

CURRENT STATUS. *Caucnemastoma martensi* Snegovaya in Snegovaya et Chumachenko, 2011 (Nemastomatidae).

*martensi* Snegovaya, Cokendolpher et Zamani, 2021, **Phalangium**

Snegovaya *et al.*, 2021: 75–76, fig. 2A–K.

Tk-97. Holotype ♂, Iran, Khuzestan Prov., Dezful, Qaleh Shadab, Bazargah, leg. A. Zamani<> January 2019.

One ♂ paratype is kept in NSPC.

CURRENT STATUS. *Phalangium martensi* Snegovaya, Cokendolpher et Zamani, 2021 (Phalangiidae).

*milkoii* Snegovaya et Cokendolpher, 2021, **Homolophus**

Snegovaya, Cokendolpher, 2021: 338, figs 7, 24, 27.

Tk-98. Holotype ♂, Kyrgyzstan, Talas Mt. Ridge, Chon-Kashka-Suu gorge, 2500 m, <8.09.2017,> leg. D. Milko.

The species was described from the holotype only.

CURRENT STATUS. *Homolophus milkoii* Snegovaya et Cokendolpher, 2021 (Phalangiidae).

*mitovi* Snegovaya et Marusik, 2012, **Histicostoma**

Snegovaya, Marusik, 2012: 61–62, figs 4–10.

Tk-91. Holotype ♂, Turkey [T-12] Bursa İnegöl, Great Oylat Cave, 39°56.601' N 29°35.492' E, 513 m, 3.06.2009<> Yu.M. Marusik.

Tk-92. Paratype ♀, Turkey [T-12] Bursa İnegöl, Great Oylat Cave, 39°56.601' N 29°35.492' E, 513 m, 3.06.2009<> Yu.M. Marusik.

One ♂ paratype is kept in NSPC.

CURRENT STATUS. *Histicostoma mitovi* Snegovaya et Marusik, 2012 (Nemastomatidae).

*morini* Snegovaya, 2016, **Opilio**

Snegovaya, 2016: 31–33, figs 20–36.

Tk-85. Holotype ♂, Azerbaijan, Sharur distr.<> Akhura vill., 22.06.2011<> leg. N. Snegovaya.

Tk-86. Paratype ♀, Azerbaijan, Sharur distr., Akhura vill., 22.06.2011<> leg. N. Snegovaya.

Other paratypes (35 ♂♂, 25 ♀♀, 4 juv.) are kept in NSPC.

CURRENT STATUS. *Opilio morini* Snegovaya, 2016 (Phalangiidae).

*nakhichevanicus* Snegovaya, 2012, **Homolophus**

Snegovaya, 2012: 7–10, figs 6–20.

Tk-80. Holotype ♂, Нахичевань, Сираб {Nakhichevan, Sirab}, 21.06.2011, leg. N. Snegovaya.

Paratypes are kept in NSPC.

CURRENT STATUS. *Homolophus nakhichevanicus* Snegovaya, 2012 (Phalangiidae).

*nigricoxa* Snegovaya et Starega, 2011, **Lenkoraniella**

Snegovaya, Starega, 2011: 55, figs 21–34.

Tk-78. Holotype ♂, Azerbaijan, Lenkoran, Azfilial, 19–21.05.2009, leg. N. Snegovaya.

Tk-79. Paratype ♀, Azerbaijan, Lenkoran, Azfilial, 19–21.05.2009, leg. N. Snegovaya.

Other paratypes are kept in ZIN, IZB and NSPC.

CURRENT STATUS. *Lenkoraniella nigricoxa* Snegovaya et Starega, 2011 (Phalangiidae).

*rossicus* Snegovaya, 2016, **Opilio**

Snegovaya, 2016: 28–30, figs 2–19.

Tk-84. Holotype ♂, Россия, Ростовская обл., Орловский р-н, пос. Маньч, долина оз. Маньч-Гудило {Russia, Rostov Area, Orlovsky District, Manych, Manych-Gudilo Lake valley}, 2–9.10.2009, leg. Перепечаенко В.Л. {Perepchaenko V.L.}

Paratypes (7 ♂♂, 1 ♀) are kept in NSPC.

CURRENT STATUS. *Opilio rossicus* Snegovaya, 2016 (Phalangiidae).

*venustum* Snegovaya, 2008, **Phalangium**

Snegovaya, 2008: 274–277, figs 30–46.

Tk-83. Paratypes 1 ♂, 2 ♀♀, Israel, Avdat, March 2005, pitfall traps, leg. Jael Lubin.

Other types are kept in ZIN (holotype ♂, paratype ♀), ISEA (paratypes 1 ♂, 2 ♀♀), HUJI (initially in Mitrani Department of Desert Ecology, Baustein Institute for Desert Research, Ben Gurion University, Israel, paratypes 2 ♂♂, 2 ♀♀), IZB (paratypes 3 ♂♂, 9 ♀♀).

CURRENT STATUS. *Phalangium venustum* Snegovaya, 2008 (Phalangiidae).

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