

# An annotated checklist of spiders deposited in the Arachnida collection of the Institute of Zoology, Scientific Center of Zoology and Hydroecology of the NAS RA, Yerevan, Armenia. Part I

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doi: 10.30963/aramit6102

**Abstract.** Data on Armenian spider species are summarized. A catalogue of spiders collected during 1988–1998 and deposited in the Institute of Zoology collection, Yerevan, Armenia is given. The review revealed 20 species belonging to nine families. Fourteen species are recorded for Armenia for the first time. Thus, the number of spider species known from Armenia rises to 190. *Liocranum rupicola* (Walckenaer, 1830) is recorded for the first time in the Caucasus.

**Keywords:** Araneae, Caucasus, country list, new records

**Zusammenfassung. Kommentierte Checkliste der Spinnentiersammlung des Institute of Zoology, Scientific Center of Zoology and Hydroecology of NAS RA, Jerewan, Armenien. Teil I.** Die Daten zu den Spinnen Armeniens werden zusammengefasst. Wir erstellen einen Katalog der 1988–1998 gesammelten Spinnen, die in der Sammlung des Instituts für Zoologie in Jerewan, Armenien, hinterlegt sind. Diese Liste enthält 20 Arten aus neun Familien. Vierzehn Arten werden erstmals für Armenien nachgewiesen, dadurch erhöht sich die bekannte Artensumme für Armenien auf 190. *Liocranum rupicola* (Walckenaer, 1830) wird erstmals für den Kaukasus gemeldet.

**Ամփոփում. ՀՀ ԳԱԱ կենդանաբանության եվ հիդրոէկոլոգիայի գիտական կենտրոնի սարդակերպերի հավաքածուում պահպանված սարդերի մեկնաբանված ստուգացանկ, ՀՀ ԳԱԱ կենդանաբանության եվ հիդրոէկոլոգիայի գիտական կենտրոն, Երևան, Հայաստան: Մաս I.** Սույն հոդվածով ամփոփվում են Հայաստանի սարդերի տեսակային կազմի վերաբերյալ տվյալները: Ներկայացված է 1988–1998 թվականներին հավաքված և Կենդանաբանության ինստիտուտի հավաքածուում պահպանված սարդերի ստուգացուցակ, Երևան, Հայաստան: Ուսումնասիրությունը պարունակում է ինը ընտանիքի պատկանող 20 տեսակ սարդերի տվյալներ, որոնցից տասնչորսը գրանցվել է առաջին անգամ Հայաստանում: Այսպիսով, Հայաստանից հայտնի սարդերի քանակը հասել է 190-ի: Կովկասում առաջին անգամ է գրանցվում *Liocranum rupicola* (Walckenaer, 1830) տեսակը:

Spiders are a little studied group of animals in the Armenian fauna, along with most other invertebrates. Spiders from Armenia were first mentioned by Koch (1878) and Kulczyński (1895). Only a few papers on spiders from areas within the contemporary boundaries of Armenia have been published since (Charitonov 1936, 1956, Mcheidze 1964, 1997, Ovtsharenko 1982, 1994, Wesołowska 1986, Eskov 1987, Tanasevitch 1987, 1990, Dunin 1984, 1988, 1989, 1991, 1992, Marusik 1989, Mikhailov 1986, 1987, 1990, 1992, 2003, 2013, 2016). Some important papers for the study of the Armenian spider fauna were published by D. V. Logunov (Logunov 1996, 1998, 1999, 2015, Logunov & Guseinov 2002, 2008, Rakov & Logunov 1997, Zyuzin & Logunov 2000). Vadimir Zacharjan, who was the main collector of our material, wrote a single publication (Dunin & Zacharjan 1991).

Based on his material, Zacharjan provided some data on spiders to the country's First National Report to the Convention of Biological Diversity (H. Khachatryan pers. comm.). While 302 species belonging to 30 families are quoted for the Armenian fauna in the First National Report (Ministry of Nature Protection 1999; families are listed only in the Armenian version of the Report, Annex 9). In the Fifth National Report, 325 spider species are quoted (Ministry of Nature Protection 1999, Appendix 3; the number “600 species” mentioned in Appendix 4 is an obvious mistake). Unfortunately, Zacharjan's unpublished list of species, which served a background for these numbers, is lost.

The number of spider species from Armenia given in other sources is very low. In the comprehensive check-list of the spiders of the former Soviet Union territories, Mikhailov (2013) listed 118 spider species for Armenia, adding nine more species in Addendum 2 to the Catalogue (Mikhailov 1999). Summarizing further data, he mentioned 141 species for Armenia (Mikhailov 2016) and 15 more spider species are listed for the country by Mikhailov & Propistsova (2017). Finally, in the on-line Faunistic Database on the Spiders of the Caucasus Ecoregion (Otto 2020) the list of Armenian spiders includes 163 species – while Nentwig et al. (2020) have 162 recorded species – not including the latest publication (Zarikian 2020), which added thirteen species such that the formal recorded species number of spiders in Armenia is 176.

This paper aims to provide new data on the spiders of Armenia. The material is kept in the collection of the Institute of Zoology, Scientific Center of Zoology and Hydroecology, National Academy of Sciences of Armenia.

## Materials and methods

The material was collected between 1988–1998 from various sites in Armenia (Fig. 1 and Tab. 1) by staff of our Institute, Dr. Vladimir Zacharjan and Arthur Sukiasyan, and utilised sweeping, pitfall trapping and visual search and collecting systems. The material is kept in 70% ethanol. Most of the material was identified by the collectors themselves and part of it by the first author of the present paper based on Jones-Walters (1989) and Nentwig et al. (2020). Approximate GPS data based on the field notes are given in Tab. 1. In the list of species, the order of families and species follows that of Otto (2020). The world distribution is taken from the World Spider Catalog (2020) and the distribution in the Caucasus from Otto (2020) and Nentwig et al. (2020). The data on habitats

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Academic editor: Petr Dolejš

submitted: 3.9.2020, accepted: 1.2.2021, online: 5.3.2021

are based on the field experience of the second author and do not refer to precise collection sites, however, they match the Armenian habitat at that time. An abbreviated checklist of Armenian spider species is given in Tab. 2.

**Tab. 1:** Collecting sites

| Site No. | Site name                                 | coordinates                                         | Altitude (m a.s.l.) |
|----------|-------------------------------------------|-----------------------------------------------------|---------------------|
| 1        | Tumanyan                                  | 40.5900°N 44.3900°E                                 | 857                 |
| 2        | Hankavan                                  | 40.6282°N 44.5342°E                                 | 1900                |
| 3        | Sevan                                     | 40.3440°N 44.5835°E                                 | 2020                |
| 4        | Yerevan                                   | 40.1240°N 44.3330°E                                 | 1230                |
| 5        | Jrarat, "Vordan karmir" state sanctuary   | 40.0755°N 44.2401°E                                 | 840                 |
| 6        | Goght                                     | 40.1375°N 44.8138°E                                 | 1750                |
| 7        | "Khosrov forest" State Reserve, Vedi area | between 39.9700°N 44.8700°E and 39.9900°N 44.9000°E | 1300–1460           |
| 8        | Yeghegnadzor                              | 39.7422°N 45.3283°E                                 | 1242                |
| 9        | Areni                                     | 39.7227°N 45.1906°E                                 | 1081                |
| 10       | Kapan                                     | 39.1227°N 46.2420°E                                 | 780                 |
| 11       | Gudemnis                                  | 38.9381°N 46.1784°E                                 | 1350                |
| 12       | Meghri                                    | 38.9058°N 46.2540°E                                 | 1193                |

## List of species

### Family Pholcidae

#### *Pholcus phalangioides* (Fuesslin, 1775)

Material examined: 2 ♂♂, 6 ♀♀, Areni, 22. May 1988; 2 ♂♂, 6 ♀♀, Yerevan, 4. May 1993; 2 ♂♂, 6 ♀♀, env. Tumanyan, 6. Apr. 1991, all V. Zacharjan leg.

**Distribution.** Europe, North Caucasus, Georgia, Azerbaijan, Africa, Asia, Australia, New Zealand and numerous islands, introduced to the Americas. New record for the Armenian fauna.

**Habitat.** Warm corners, occupied and abandoned buildings.

### Family Tetragnathidae

#### *Tetragnatha dearmata* Thorell, 1873

**Material examined.** 1 ♀, Jrarat, "Vordan karmir" state sanctuary, 13. Aug. 1994; 1 ♂, 3 ♀♀, Meghri, 2. Jun. 1989, all V. Zacharjan leg.

**Distribution.** North America, Europe, North Caucasus, Azerbaijan, Russia (from European part to Far East). New record for the Armenian fauna.

**Habitat.** Wetlands or in the vicinity of water.

#### *Tetragnatha extensa* (Linnaeus, 1758)

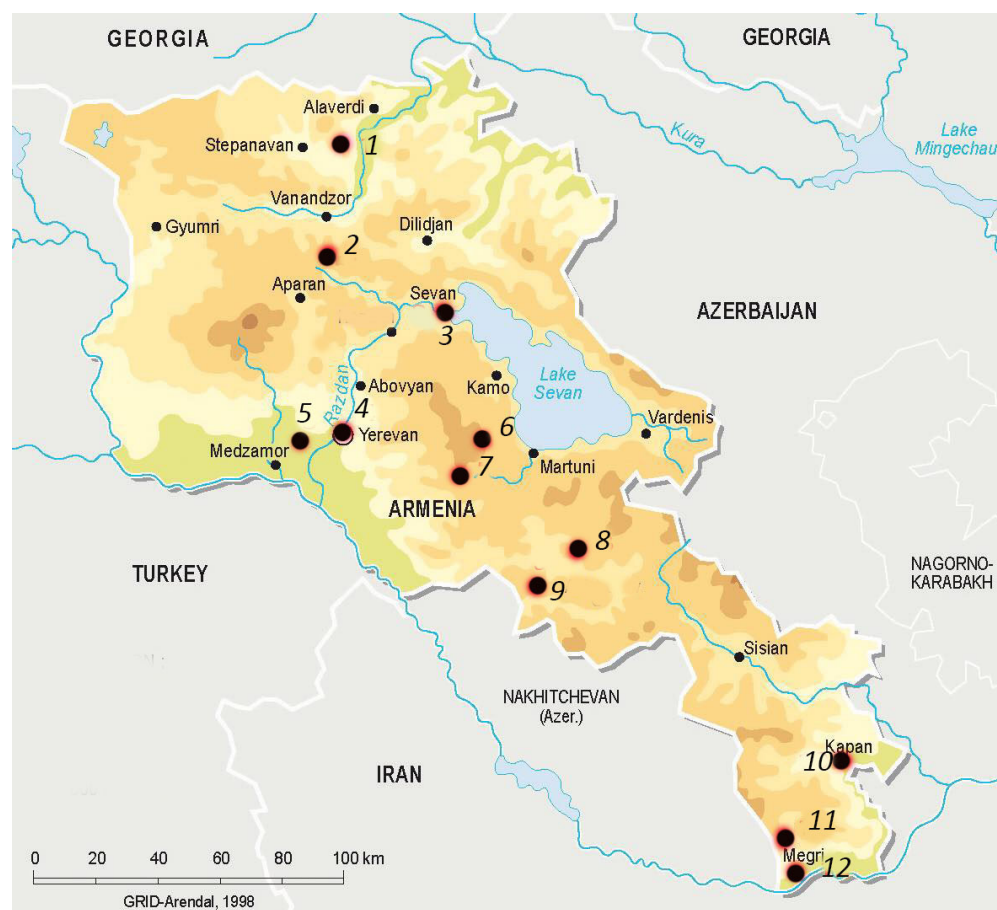
**Material examined.** 3 ♀♀, Jrarat, "Vordan karmir" state sanctuary, 1. May 1996; 4 ♀♀, env. Sevan town, 17. Jun. 1998, all A. Sykiasyan leg.

**Distribution.** North America, Greenland, Europe, Turkey, North Caucasus Georgia, Azerbaijan, Russia (from European part to Far East), Iraq, Iran, Kazakhstan, Central Asia, China, Korea, Japan. In Armenia recorded in the Armenian highland by Mikhailov (2000).

**Habitat.** Grasslands and in low vegetation, especially at the waterside and in wetlands.

#### *Tetragnatha montana* Simon, 1874

**Material examined.** 1 ♂, Khosrov Forest State Reserve, Vedi area, 25. Jun. 1998, A. Sykiasyan leg.



**Fig. 1:** Map of Armenia with collecting sites (Map provided by Philippe Rekacewicz, Emmanuelle Bournay, UNEP/GRID-Arendal. <https://www.grida.no/resources/5338>)

- 1 – Tumanyan;
- 2 – Hankavan;
- 3 – Sevan;
- 4 – Yerevan;
- 5 – Jrarat;
- 6 – Goght;
- 7 – Khosrov;
- 8 – Yeghegnadzor;
- 9 – Areni;
- 10 – Kapan;
- 11 – Gudemnis;
- 12 – Meghri

**Distribution.** Europe, Turkey, North Caucasus, Georgia, Azerbaijan, Russia (from European part to Far East), Central Asia. New record for the Armenian fauna.

**Habitat.** Low vegetation in a variety of habitats, mostly at low altitudes.

*Tetragnatha nigrita* Lendl, 1886

**Material examined.** 2 ♀♀, Gudemnis, 13. Jun. 1989; 1 ♀, Kapan, 5. Jun. 1989, all V. Zacharjan leg.

**Distribution.** Europe, North Caucasus, Georgia, Azerbaijan, Russia (from European part to Far East), Central Asia, China, Japan. New record for the Armenian fauna.

**Habitat.** Arable and waterside lands.

*Tetragnatha pinicola* L. Koch, 1870

**Material examined.** 1 ♀, 1 ♂, Sevan town, 17. Jun. 1998, A. Sykiasyan leg.

**Distribution.** Europe, Turkey, North Caucasus, Georgia, Azerbaijan, Russia (from European part to Far East), Central Asia, China, Korea, Japan. New record for the Armenian fauna.

**Habitat.** Woodland clearings and rides.

#### Family Araneidae

*Araneus angulatus* Clerck, 1757

**Material examined.** 1 ♀, Yerevan, 1. Nov. 1990, V. Zacharjan leg.

**Distribution.** Europe, Turkey, North Caucasus, Georgia, Azerbaijan, Russia (from European part to Far East), Iran, Central Asia, Korea. First recorded in Armenia in the Armenian highland by Mikhailov (2013).

**Habitat.** Woodland and scrub.

*Gibbaranea gibbosa* (Walckenaer, 1802)

**Material examined.** 1 ♀, Yerevan, 10. Oct. 1993, V. Zacharjan leg.

**Distribution.** From western Europe to the Urals and from Sweden to Greece, Turkey and Cyprus, in the Caucasus only known from Azerbaijan.

**Habitat.** Moist grasslands and shrubs.

*Larinioides suspicax* (O. Pickard-Cambridge, 1876)

**Material examined.** 1 ♂, 6 ♀♀, Jrarat, “Vordan karmir” state sanctuary, 1. Jun. 1995, A. Sykiasyan leg.

**Distribution.** North America, Europe, Turkey, Israel, North Caucasus, Georgia, Azerbaijan, Russia (from European part to Far East), Iran, China, Korea, Japan and Armenia. First recorded in Armenia by Mikhailov (2000).

**Habitat.** Bushy areas, reeds and near ponds.

#### Family Lycosidae

*Hogna radiata* (Latreille, 1817)

**Material examined.** 1 ♀, Yerevan, 11. Nov. 1991, V. Zacharjan leg.

**Distribution.** Europe, Turkey, North Caucasus, Georgia, Azerbaijan, Russia, Kazakhstan, Iraq, Iran, Central Asia. New record for the Armenian fauna.

**Habitat.** Warm, dry and semi-desert areas.

*Lycosa praegrandidis* C. L. Koch, 1836

**Material examined.** 1 ♂, Khosrov Forest State Reserve, Vedi

area, 22. May 1990; 1 ♀, Yerevan 10. Aug. 1992, both V. Zacharjan leg.

**Distribution.** Albania, North Macedonia, Bulgaria, Greece, Turkey, Ukraine, Russia (European part), North Caucasus, Georgia, Azerbaijan, Kazakhstan, Iran, Central Asia. In Armenia, recorded in the Armenian highland by Mikhailov (2013).

**Habitat.** Dry, warm and rocky areas and steppes.

#### Family Dictynidae

*Argenna patula* (Simon, 1874)

**Material examined.** 1 ♀, Khosrov Forest State Reserve, Vedi area, 17. Aug. 1992, V. Zacharjan leg.

**Distribution.** Europe, Azerbaijan, Russia (Europe to South Siberia), Kyrgyzstan, China. New record for the Armenian fauna.

**Habitat.** Banks of tidal rivers.

#### Family Anyphaenidae

*Anyphaena accentuata* (Walckenaer, 1802)

**Material examined.** 1 ♂, Hankavan, 14. Jun. 1990, A. Sykiasyan leg.

**Distribution.** Europe to Central Asia, North Caucasus, Georgia, Azerbaijan, Iran. In Armenia recorded in Dilizhan by Kulczyński (1895) and Mikhailov (2013).

**Habitat.** Shrubs and houses.

#### Family Liocranidae

*Liocranum rupicola* (Walckenaer, 1830)

**Material examined.** 1 ♀, Jrarat, “Vordan karmir” state sanctuary, 16. Apr. 1989, V. Zacharjan leg.

**Distribution.** Europe, Turkey, Russia (European part to West Siberia). New record for the Caucasus Region and the Armenian fauna.

**Habitat.** Cracks in cliffs, dry stone walls and houses.

#### Family Sparassidae

*Olios sericeus* (Kroneberg, 1875)

**Material examined.** 1 ♀, Yerevan, 1. Sep. 1995, A. Sykiasyan leg.

**Distribution.** Caucasus (Russia, Georgia, Azerbaijan), Kazakhstan, Central Asia, Iran, Afghanistan. New record for the Armenian fauna.

**Habitat.** Dry hillsides and steppes.

#### Family Thomisidae

*Heriaeus oblongus* Simon, 1918

**Material examined.** 1 ♀, Yeghegnadzor, 22. May 1988, V. Zacharjan leg.

**Distribution.** Europe, North Caucasus, Georgia, Azerbaijan, Russia (European part) to Central Asia. New record for the Armenian fauna.

**Habitat.** Rocky hillsides.

*Spiracme striatipes* (L. Koch, 1870)

**Material examined.** 1 ♂, Yerevan 04. Apr. 1994, V. Zacharjan leg.

**Distribution.** Europe, Turkey, North Caucasus, Georgia, Azerbaijan, Russia (Europe) to Central Asia, Iran, China. New record for the Armenian fauna.

**Habitat.** Grasslands.

*Xysticus bifasciatus* C. L. Koch, 1837

**Material examined.** 1 ♂, Yerevan, 1. Sep. 1995, V. Zacharjan leg.

**Distribution.** Palaearctic species widespread in western, central Europe and North Caucasus. New record for the Armenian fauna.

**Habitat.** Grasslands.

*Xysticus gallicus* Simon, 1875

**Material examined.** 1 ♀, Yeghegnadzor, 22. May 1988; 1 ♀, Khosrov Forest State Reserve, Vedi area, 22. May 1990, all V. Zacharjan leg.

**Distribution.** Europe (without UK and Scandinavia), Turkey, North Caucasus, Georgia, Azerbaijan, Iran. New record for the Armenian fauna.

**Habitat.** Shrublands on foothills.

*Xysticus kochi* Thorell, 1872

**Material examined.** 1 ♂, Yeghegnadzor, 22. May 1988, V. Zacharjan leg.

**Distribution.** Europe, Mediterranean to Central Asia, North Caucasus, Georgia, Azerbaijan. First recorded in Armenia in Dilizhan by Kulczyński (1895).

**Habitat.** Woodlands and shrublands on foothills.

**Tab. 2:** Abbreviated checklist of the Armenian spider species based on Otto (2020), including the sequence of the families. \*\* new record for Armenia

| Species                                                     | Distribution in Armenia<br>(Province names) | Reference                             |
|-------------------------------------------------------------|---------------------------------------------|---------------------------------------|
| <b>Family Nemesiidae</b>                                    |                                             |                                       |
| <i>Raveniola dunini</i> Zonstein, Kunt & Yağmur, 2018       | Syunik                                      | Zonstein et al. (2018)                |
| <b>Family Scytodidae</b>                                    |                                             |                                       |
| <i>Scytodes thoracica</i> (Latreille, 1802)                 | Unspecified                                 | Mikhailov (2013)                      |
| <b>Family Pholcidae</b>                                     |                                             |                                       |
| <i>Pholcus phalangioides</i> (Fuesslin, 1775)**             | Lori, Vayots dzor and Yerevan               | Current study                         |
| <b>Family Dysderidae</b>                                    |                                             |                                       |
| <i>Dysdera armenica</i> Charitonov, 1956                    | Gegharkunik and Tavush                      | Charitonov (1956),<br>Dunin (1992)    |
| <i>Dysdera collucata</i> Dunin, 1991                        | Syunik                                      | Dunin (1992)                          |
| <i>Dysdera mazini</i> Dunin, 1991                           | Syunik                                      | Dunin (1992)                          |
| <i>Dysdera richteri</i> Charitonov, 1956                    | Yerevan and Syunik                          | Charitonov (1956), Dunin (1992)       |
| <i>Harpactea armenica</i> Dunin, 18899                      | Yerevan and Ararat                          | Dunin (1989, 1992)                    |
| <i>Harpactea deelemanae</i> Dunin, 1989                     | Syunik                                      | Dunin (1989, 1992)                    |
| <i>Harpactea eskovi</i> Dunin, 1989                         | Lori                                        | Dunin (1989, 1992)                    |
| <i>Harpactea golovatchi</i> Dunin, 1989                     | Syunik                                      | Dunin (1989, 1992)                    |
| <i>Harpactea nachitschevanica</i> Dunin, 1991               | Unspecified                                 | Mikhailov (2013)                      |
| <i>Harpactea nenilini</i> Dunin, 1989                       | Syunik                                      | Dunin (1989, 1992)                    |
| <i>Harpactea secunda</i> Dunin, 1989                        | Tavush                                      | Dunin (1989, 1992)                    |
| <b>Family Eresidae</b>                                      |                                             |                                       |
| <i>Stegodyphus lineatus</i> (Latreille, 1817)               | Tavush                                      | Dunin (1988)                          |
| <b>Family Theridiidae</b>                                   |                                             |                                       |
| <i>Enoplognatha latimana</i> Hippa & Oksala, 1982           | Gegharkunik                                 | Marusik (1989)                        |
| <i>Enoplognatha ovata</i> (Clerck, 1757)                    | Unspecified                                 | Mikhailov (2013)                      |
| <i>Latrodectus tredecimguttatus</i> (Rossi, 1790)           | Unspecified                                 | Mikhailov (2013)                      |
| <i>Platnickina tinctoria</i> (Walckenaer, 1802)             | Tavush                                      | Kulczyński (1895)                     |
| <i>Robertus arundineti</i> (O. Pickard-Cambridge, 18917)    | Tavush and Syunik                           | Eskov (1987)                          |
| <b>Family Linyphiidae</b>                                   |                                             |                                       |
| <i>Agyneta conigera</i> (O. Pickard-Cambridge, 1863)        | Tavush                                      | Tanasevitch (1990)                    |
| <i>Agyneta ramosa</i> Jackson, 1912                         | Tavush                                      | Tanasevitch (1990)                    |
| <i>Agyneta rurestris</i> (C. L. Koch, 1836)                 | Yerevan and Lori                            | Kulczyński (1895), Tanasevitch (1990) |
| <i>Araeoncus clavatus</i> Tanasevitch, 1987                 | Syunik                                      | Tanasevitch (1987)                    |
| <i>Bolyphantes alticeps</i> (Sundevall, 1833)               | Gegharkunik                                 | Tanasevitch (1987)                    |
| <i>Centromerus minor</i> Tanasevitch, 1990                  | Syunik, Lori and Tavush                     | Tanasevitch (1990)                    |
| <i>Ceratinella brevis</i> (Wider, 1834)                     | Tavush                                      | Tanasevitch (1990)                    |
| <i>Ceratinella scabrosa</i> (O. Pickard-Cambridge, 1871)    | Lori                                        | Tanasevitch (1990)                    |
| <i>Diplocephalus latifrons</i> (O. Pickard-Cambridge, 1863) | Tavush and Lori                             | Tanasevitch (1990)                    |
| <i>Diplocephalus picipinus</i> (Blackwall, 1841)            | Lori                                        | Tanasevitch (1990)                    |
| <i>Diplostyla concolor</i> (Wider, 1834)                    | Syunik, Lori and Tavush                     | Tanasevitch (1987, 1990)              |
| <i>Erigone dentipalpis</i> (Wider, 1834)                    | Tavush and Gegharkunik                      | Tanasevitch (1987, 1990)              |
| <i>Erigonoplus globipes</i> (L. Koch, 1872)                 | Gegharkunik                                 | Tanasevitch (1990)                    |
| <i>Linyphia hortensis</i> Sundevall, 1830                   | Tavush and Gegharkunik                      | Tanasevitch (1987, 1990)              |
| <i>Linyphia tenuipalpis</i> Simon, 1884                     | Gegharkunik                                 | Tanasevitch (1987)                    |
| <i>Micrargus herbigradus</i> (Blackwall, 1854)              | Lori                                        | Tanasevitch (1990)                    |

| Species                                                   | Distribution in Armenia<br>(Province names) | Reference                                          |
|-----------------------------------------------------------|---------------------------------------------|----------------------------------------------------|
| <i>Micrargus subaequalis</i> (Westring, 1851)             | Tavush and Lori                             | Tanasevitch (1990)                                 |
| <i>Microlinyphia impigra</i> (O. Pickard-Cambridge, 1871) | Gegharkunik                                 | Tanasevitch (1987)                                 |
| <i>Microneta viaria</i> (Blackwall, 1841)                 | Tavush, Lori and Syunik                     | Tanasevitch (1987, 1990)                           |
| <i>Nerine peltata</i> (Wider, 1834)                       | Tavush                                      | Tanasevitch (1990)                                 |
| <i>Oedothorax meridionalis</i> Tanasevitch, 1987          | Lori                                        | Tanasevitch (1990)                                 |
| <i>Panamomops fedotovi</i> (Charitonov, 1937)             | Tavush and Syunik                           | Tanasevitch (1987, 1990)                           |
| <i>Pelecopsis crassipes</i> Tanasevitch, 1987             | Tavush and Syunik                           | Tanasevitch (1987, 1990)                           |
| <i>Piniphantes pinicola</i> (Simon, 1884)                 | Ararat                                      | Tanasevitch (1990)                                 |
| <i>Porrhomma pygmaeum</i> (Blackwall, 1834)               | Tavush and Lori                             | Tanasevitch (1990)                                 |
| <i>Scutpelecopsis krausi</i> (Wunderlich, 1980)           | Tavush                                      | Tanasevitch (1990)                                 |
| <i>Sintula retroversus</i> (O. Pickard-Cambridge, 1875)   | Syunik                                      | Tanasevitch (1987)                                 |
| <i>Styloctetor romanus</i> (O. Pickard-Cambridge, 18723)  | Tavush                                      | Tanasevitch (1990)                                 |
| <i>Tapinocyba pallens</i> (O. Pickard-Cambridge, 1873)    | Tavush and Lori                             | Tanasevitch (1987, 1990)                           |
| <i>Tapinopa longidens</i> (Wider, 1834)                   | Gegharkunik                                 | Tanasevitch (1987)                                 |
| <i>Tenuiphantes aequalis</i> (Tanasevitch, 1987)          | Lori                                        | Tanasevitch (1990)                                 |
| <i>Tenuiphantes contortus</i> (Tanasevitch, 1986)         | Lori and Gegharkunik                        | Tanasevitch (1987, 1990)                           |
| <i>Tenuiphantes mengei</i> (Kulczyński, 1887)             | Tavush and Syunik                           | Tanasevitch (1987, 1990)                           |
| <i>Tenuiphantes tenuis</i> (Blackwall, 1852)              | Gegharkunik                                 | Tanasevitch (1987)                                 |
| <i>Walckenaeria acuminata</i> Blackwall, 1833             | Lori                                        | Tanasevitch (1990)                                 |
| <i>Walckenaeria antica</i> (Wider, 1834)                  | Lori                                        | Tanasevitch (1990)                                 |
| <i>Walckenaeria bifasciculata</i> Tanasevitch, 1987       | Syunik                                      | Tanasevitch (1987)                                 |
| <i>Walckenaeria cucullata</i> (C. L. Koch, 1836)          | Lori                                        | Tanasevitch (1990)                                 |
| <b>Family Tetragnathidae</b>                              |                                             |                                                    |
| <i>Metellina orientalis</i> (Spassky, 1932)               | Gegharkunik                                 | Marusik (1986)                                     |
| <i>Tetragnatha extensa</i> (Linnaeus, 1758)               | Armavir and Gegharkunik                     | Mikhailov (2000), current study                    |
| <i>Tetragnatha dearmata</i> Thorell, 1873 **              | Armavir and Syunik                          | Current study                                      |
| <i>Tetragnatha montana</i> Simon, 1874 **                 | Ararat                                      | Current study                                      |
| <i>Tetragnatha nigrita</i> Lendl., 1886**                 | Syunik                                      | Current study                                      |
| <i>Tetragnatha pinicola</i> L. Koch, 1870**               | Gegharkunik                                 | Current study                                      |
| <b>Family Araneidae</b>                                   |                                             |                                                    |
| <i>Aculepeira armida</i> (Audouin, 1826)                  | Armavir                                     | Koch (1878)                                        |
| <i>Aculepeira ceropegia</i> (Walckenaer, 1802)            | Tavush                                      | Kulczyński (1895)                                  |
| <i>Araneus angulatus</i> Clerck, 1757                     | Yerevan                                     | Mikhailov (2013), current study                    |
| <i>Araneus diadematus</i> Clerck, 1757                    | Unspecified                                 | Mikhailov (2013)                                   |
| <i>Araniella cucurbitina</i> (Clerck, 1757)               | Tavush                                      | Kulczyński (1895)                                  |
| <i>Gibbaranea gibbosa</i> (Walckenaer, 1802) **           | Yerevan                                     | Current study                                      |
| <i>Hypsosinga alborvittata</i> (Westring, 1851)           | Armavir                                     | Koch (1878)                                        |
| <i>Larinioides cornutus</i> (Clerck, 1757)                | Gegharkunik                                 | Kulczyński (1895)                                  |
| <i>Larinioides suspicax</i> (O. Pickard-Cambridge, 1876)  | Armavir and Gegharkunik                     | Kulczyński (1895), Mikhailov (2000), current study |
| <i>Mangora acalypha</i> (Walckenaer, 1802)                | Yerevan and Tavush                          | Kulczyński (1895)                                  |
| <i>Neoscona adianta</i> (Walckenaer, 1802)                | Armavir                                     | Koch (1878)                                        |
| <b>Family Lycosidae</b>                                   |                                             |                                                    |
| <i>Alopecosa albofasciata</i> (Brullé, 1832)              | Unspecified                                 | Mikhailov (2013)                                   |
| <i>Geolycosa dunini</i> Zyuzin & Logunov, 2000            | Gegharkunik                                 | Zyuzin & Logunov (2000)                            |
| <i>Hogna radiata</i> (Latreille, 1817) **                 | Yerevan                                     | Current study                                      |
| <i>Lycosa piochardi</i> Simon, 1876                       | Armavir                                     | Koch (1878)                                        |
| <i>Lycosa praegrans</i> C. L. Koch, 1836                  | Ararat                                      | Mikhailov (2013), current study                    |
| <i>Pardosa colchica</i> Mkheidze, 1946                    | Kotayk and Tavush                           | Zyuzin & Logunov (2000)                            |
| <i>Pardosa condolens</i> (O. Pickard-Cambridge, 1885)     | Unspecified                                 | Mikhailov (2013)                                   |
| <i>Pardosa italica</i> Tongiorgi, 1966                    | Unspecified                                 | Mikhailov (2013)                                   |
| <i>Pardosa pontica</i> (Thorell, 1875)                    | Syunik and Gegharkunik                      | Zyuzin & Logunov (2000)                            |
| <i>Trochosa terricola</i> Thorell, 1856                   | Gegharkunik                                 | Mcheidze (1964)                                    |
| <b>Family Oxyopidae</b>                                   |                                             |                                                    |
| <i>Oxyopes lineatus</i> Latreille, 1806                   | Yerevan                                     | Kulczyński (1895)                                  |
| <b>Family Dictynidae</b>                                  |                                             |                                                    |
| <i>Argyroneta aquatica</i> (Clerck, 1757)                 | Unspecified                                 | Mikhailov (2000)                                   |

| Species                                                           | Distribution in Armenia<br>(Province names) | Reference                                                          |
|-------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------|
| <i>Argenna patula</i> (Simon, 1874) **                            | Ararat                                      | Current study                                                      |
| <i>Dictyna arundinacea</i> (Linnaeus, 1758)                       | Tavush                                      | Kulczyński (1895)                                                  |
| <i>Dictyna ignobilis</i> Kulczyński, 1895                         | Gegharkunik                                 | Kulczyński (1895)                                                  |
| <i>Nigma flavescens</i> (Walckenaer, 1830)                        | Yerevan                                     | Kulczyński (1895)                                                  |
| <b>Family Titanoeidae</b>                                         |                                             |                                                                    |
| <i>Nurscia albosignata</i> Simon, 1874                            | Unspecified                                 | Mikhailov (2013)                                                   |
| <b>Family Cheiracanthiidae</b>                                    |                                             |                                                                    |
| <i>Cheiracanthium pelasgicum</i> (C. L. Koch, 1837)               | Tavush                                      | Kulczyński (1895)                                                  |
| <b>Family Miturgidae</b>                                          |                                             |                                                                    |
| <i>Zora silvestris</i> Kulczyński, 1897                           | Unspecified                                 | Mikhailov (2013)                                                   |
| <b>Family Anyphaenidae</b>                                        |                                             |                                                                    |
| <i>Anyphaena accentuata</i> (Walckenaer, 1802)                    | Kotayk and Tavush                           | Kulczyński (1895), current study                                   |
| <b>Family Liocranidae</b>                                         |                                             |                                                                    |
| <i>Liocranum rupicola</i> (Walckenaer, 1830)**                    | Armavir                                     | Current study                                                      |
| <b>Family Clubionidae</b>                                         |                                             |                                                                    |
| <i>Clubiona alpicola</i> Kulczyński, 1882                         | Ararat, Syunik and Lori                     | Mikhailov (1990)                                                   |
| <i>Clubiona caerulescens</i> L. Koch, 1867                        | Gegharkunik                                 | Mikhailov et al. (2017)                                            |
| <i>Clubiona caucasica</i> Mikhailov & Otto, 2017                  | Lori and Tavush                             | Mikhailov (1990)                                                   |
| <i>Clubiona corticalis</i> (Walckenaer, 1802)                     | Syunik                                      | Mikhailov (1992)                                                   |
| <i>Clubiona golovatchi</i> Mikhailov, 1990                        | Syunik                                      | Mikhailov (1990)                                                   |
| <i>Clubiona lutescens</i> Westring, 1851                          | Lori                                        | Mikhailov (1990)                                                   |
| <i>Clubiona neglecta</i> O. Pickard-Cambridge, 1862               | Lori and Gegharkunik                        | Mikhailov (1990, 2003)                                             |
| <i>Clubiona pallidula</i> (Clerck, 1757)                          | Lori                                        | Mikhailov (1990)                                                   |
| <i>Clubiona pseudoneglecta</i> Wunderlich, 1994                   | Gegharkunik                                 | Mikhailov (2003)                                                   |
| <i>Clubiona pseudosimilis</i> Mikhailov, 1990                     | Gegharkunik                                 | Mikhailov (1990)                                                   |
| <i>Porrhoclubiona genevensis</i> (L. Koch, 1866)                  | Syunik                                      | Mikhailov (1990)                                                   |
| <i>Porrhoclubiona vegeta</i> (Simon, 1918)                        | Syunik                                      | Mikhailov (1990)                                                   |
| <b>Family Trachelidae</b>                                         |                                             |                                                                    |
| <i>Orthobula charitonovi</i> (Mikhailov, 1986)                    | Syunik                                      | Mikhailov (1986)                                                   |
| <b>Family Zodariidae</b>                                          |                                             |                                                                    |
| <i>Zodarion petrobium</i> Dunin & Zacharjan, 1991                 | Syunik                                      | Dunin & Zacharjan (1991)                                           |
| <i>Zodarion thoni</i> Nosek, 1905                                 | Tavush and Gegharkunik                      | Dunin & Zacharjan (1991)                                           |
| <b>Family Gnaphosidae</b>                                         |                                             |                                                                    |
| <i>Callilepis nocturna</i> (Linnaeus, 1758)                       | Tavush                                      | Kulczyński (1895)                                                  |
| <i>Gnaphosa lucifuga</i> (Walckenaer, 1802)                       | Unspecified                                 | Mikhailov (2013)                                                   |
| <i>Gnaphosa nigella</i> (L. Koch, 1878)                           | Armavir                                     | Koch (1878); nomen dubium in WSC (2020), but listed by Otto (2020) |
| <i>Haplodrassus dalmatensis</i> (L. Koch, 1866)                   | Unspecified                                 | Mikhailov (2000)                                                   |
| <i>Haplodrassus signifer</i> (C. L. Koch, 1839)                   | Armavir                                     | Ovtsharenko (1982)                                                 |
| <i>Micaria alborvittata</i> (Lucas, 1846)                         | Gegharkunik                                 | Mikhailov (1988)                                                   |
| <i>Micaria formicaria</i> (Sundevall, 1831)                       | Gegharkunik                                 | Mikhailov (1988)                                                   |
| <i>Micaria kopetdaghensis</i> Mikhailov, 1986                     | Gegharkunik                                 | Mikhailov (1988)                                                   |
| <i>Micaria lenzi</i> Bösenberg, 1899                              | Gegharkunik                                 | Mikhailov (1988)                                                   |
| <i>Micaria pulicaria</i> (Sundevall, 1831)                        | Lori                                        | Mikhailov (1988)                                                   |
| <i>Nomisia aussereri</i> (L. Koch, 1872)                          | Unspecified                                 | Mikhailov (2013)                                                   |
| <i>Synaphosus palearcticus</i> Ovtsharenko, Levy & Platnick, 1994 | Armavir                                     | Ovtsharenko et al. (1994)                                          |
| <i>Zelotes petrensis</i> (C. L. Koch, 1839)                       | Unspecified                                 | Mikhailov (2000)                                                   |
| <b>Family Sparassidae</b>                                         |                                             |                                                                    |
| <i>Olios sericeus</i> (Kroneberg, 1875) **                        | Yerevan                                     | Current study                                                      |
| <b>Family Philodromidae</b>                                       |                                             |                                                                    |
| <i>Philodromus aureolus</i> (Clerck, 1757)                        | Tavush                                      | Kulczyński (1895)                                                  |
| <i>Philodromus collinus</i> C. L. Koch, 1835                      | Tavush                                      | Kulczyński (1895)                                                  |
| <i>Philodromus dispar</i> Walckenaer, 1826                        | Tavush                                      | Kulczyński (1895)                                                  |
| <i>Philodromus juvenis</i> Kulczyński, 1895                       | Unspecified                                 | Mikhailov (2013)                                                   |
| <i>Rhysodromus lepidus</i> (Blackwall, 1870)                      | Unspecified                                 | Mikhailov (2013)                                                   |
| <i>Rhysodromus rikhteri</i> (Logunov & Huseynov, 2008)            | Yerevan                                     | Logunov & Guseinov (2008)                                          |
| <i>Thanatus oblongiusculus</i> (Lucas, 1846)                      | Unspecified                                 | Mikhailov (2013)                                                   |
| <i>Tibellus oblongus</i> (Walckenaer, 1802)                       | Unspecified                                 | Mikhailov (2000)                                                   |

| Species                                              | Distribution in Armenia<br>(Province names) | Reference                                |
|------------------------------------------------------|---------------------------------------------|------------------------------------------|
| <b>Family Thomisidae</b>                             |                                             |                                          |
| <i>Diaea dorsata</i> (Fabricius, 1777)               | Tavush                                      | Kulczyński (1895)                        |
| <i>Ebrechtella tricuspidata</i> (Fabricius, 1775)    | Tavush                                      | Charitonov (1936)                        |
| <i>Heriaeus oblongus</i> Simon, 1918**               | Vayots dzor                                 | Current study                            |
| <i>Misumena vatia</i> (Clerck, 1757)                 | Tavush                                      | Kulczyński (1895)                        |
| <i>Ozyptila lugubris</i> (Kroneberg, 1875)           | Unspecified                                 | Mikhailov (2013)                         |
| <i>Pistius truncatus</i> (Pallas, 1772)              | Armavir                                     | Koch (1878)                              |
| <i>Psammitis ninnii</i> (Thorell, 1872)              | Unspecified                                 | Mikhailov (2013)                         |
| <i>Runcinia grammica</i> (C. L. Koch, 1837)          | Yerevan                                     | Kulczyński (1895), Mcheidze (1964)       |
| <i>Spiracme striatipes</i> (L. Koch, 1870)**         | Yerevan                                     | Current study                            |
| <i>Synema plorator</i> (O. Pickard-Cambridge, 1872)  | Yerevan, Syunik                             | Mcheidze (1997)                          |
| <i>Thomisus onustus</i> Walckenaer, 1805             | Unspecified                                 | Mikhailov (1999)                         |
| <i>Tmarus piger</i> (Walckenaer, 1802)               | Armavir                                     | Koch (1878)                              |
| <i>Xysticus audax</i> (Schrank, 1803)                | Tavush                                      | Kulczyński (1895)                        |
| <i>Xysticus bifasciatus</i> C. L. Koch, 1837 **      | Yerevan                                     | Current study                            |
| <i>Xysticus gallicus</i> Simon, 1875**               | Ararat and Vayots dzor                      | Current study                            |
| <i>Xysticus kochi</i> Thorell, 1872                  | Tavush and Vayots dzor                      | Kulczyński (1895), current study         |
| <i>Xysticus lanio</i> C. L. Koch, 1835               | Unspecified                                 | Mikhailov (2013)                         |
| <b>Family Salticidae</b>                             |                                             |                                          |
| <i>Asianellus potanini</i> (Schenkel, 1963)          | Yerevan                                     | Logunov (2015)                           |
| <i>Attulus dzieduszyckii</i> (L. Koch, 1870)         | Armavir                                     | Logunov (2015)                           |
| <i>Attulus saltator</i> (O. Pickard-Cambridge, 1868) | Unspecified                                 | Mikhailov (2000)                         |
| <i>Attulus vilis</i> (Kulczyński, 1895)              | Gegharkunik                                 | Kulczyński (1895)                        |
| <i>Ballus chalybeius</i> (Walckenaer, 1802)          | Syunik                                      | Logunov & Rakov (1998)                   |
| <i>Chalcoscirtus tanasevichi</i> Marusik, 1991       | Gegharkunik                                 | Logunov & Marusik (1999)                 |
| <i>Chinattus caucasicus</i> Logunov, 1999            | Lori, Syunik and Tavush                     | Logunov & Guseinov (2002)                |
| <i>Dendryphantes rudis</i> (Sundevall, 1833)         | Tavush                                      | Kulczyński (1895)                        |
| <i>Euophrys frontalis</i> (Walckenaer, 1802)         | Artsakh                                     | Logunov (2015)                           |
| <i>Evarcha arcuata</i> (Clerck, 1757)                | Armavir and Tavush                          | Koch (1878), Logunov (2015)              |
| <i>Evarcha armeniaca</i> Logunov, 1999               | Syunik                                      | Logunov (1999)                           |
| <i>Heliophanus auratus</i> C. L. Koch, 1835          | Gegharkunik                                 | Rakov & Logunov (1997)<br>Logunov (2015) |
| <i>Heliophanus cupreus</i> (Walckenaer, 1802)        | Lori, Syunik and Tavush                     | Logunov & Guseinov (2002)                |
| <i>Heliophanus equester</i> L. Koch, 1867            | Yerevan                                     | Kulczyński (1895)                        |
| <i>Heliophanus flavipes</i> (Hahn, 1832)             | Tavush                                      | Logunov & Guseinov (2002)                |
| <i>Heliophanus forcipifer</i> Kulczyński, 1895       | Unspecified                                 | Wesołowska (1986)                        |
| <i>Heliophanus lineiventris</i> Simon, 1868          | Tavush                                      | Logunov & Guseinov (2002)                |
| <i>Heliophanus patagiatus</i> Thorell, 1875          | Kotayk                                      | Logunov (2015)                           |
| <i>Menemerus marginatus</i> (Kroneberg, 1875)        | Unspecified                                 | Mikhailov (2013)                         |
| <i>Myrmarachne formicaria</i> (De Geer, 1778)        | Tavush                                      | Logunov & Guseinov (2002)                |
| <i>Philaeus chrysops</i> (Poda, 1761)                | Gegharkunik and Tavush                      | Logunov & Guseinov (2002)                |
| <i>Phlegra cinereofasciata</i> (Simon, 1868)         | Gegharkunik                                 | Logunov (1996)                           |
| <i>Pseudeuophrys erratica</i> (Walckenaer, 1826)     | Syunik and Tavush                           | Logunov & Guseinov (2002)                |
| <i>Pseudicius pseudocourtauldi</i> Logunov, 1999     | Syunik                                      | Logunov (1999)                           |
| <i>Pseudomogrus albocinctus</i> (Kroneberg, 1875)    | Unspecified                                 | Mikhailov (2013)                         |
| <i>Salticus tricinctus</i> (C. L. Koch, 1846)        | Gegharkunik                                 | Logunov (2015)                           |
| <i>Synageles persianus</i> Logunov, 2004             | Syunik                                      | Logunov (2015)                           |

## Discussion

We summarized data on 177 spider species in Armenia, representing 15.5% of the Caucasian species (cf. Otto 2020). In comparison with neighbouring countries, there are 639 species known in Georgia and 720 species in Azerbaijan (Otto 2020).

The Armenian version of the First National Report (FNR; Ministry of Nature Protection 1999) contains six more fami-

lies that are not included in current checklist (Filistatidae, Mimetidae, Oecobiidae, Uloboridae, Pisauridae and Agele-  
nidae). However, only one to five species are listed for each of these families in the FNR. Furthermore, three families contain many more species in the FNR in comparison with the current checklist: Theridiidae 22 vs. 5, Lycosidae 37 vs. 10 and Gnaphosidae 32 vs. 13. In spite of many efforts to supplement the checklist of Armenian spiders, we conclude that



the results are unfortunately still incomplete. We will thus re-compile all the available information regarding the spider fauna of Armenia in forthcoming parts of this contribution. It is highly likely that the *X. gallicus* female reported in this paper belongs actually to *X. kochi*, as the female of *X. gallicus* was collected together with the male of *X. kochi* (from the same site, Yeghegnadzor). Although the identification is controversial, we prefer to keep Zacharjan's original identification (as is written on the label) until new material can be collected from the locality.

Concerning *Clubiona caerulescens/caucasica*, that original label is *C. caerulescens*, but according to Mikhailov et al. (2017) all the material from the Caucasus belongs to a newly recognised species *C. caucasica*. We therefore exclude *C. caerulescens* from the national list. In the case of *Larinioides suspicax/folium*, the original label was *L. suspicax* and it is also its current state with respect to the WSC (2020). We therefore prefer to keep *L. suspicax* under this combination. Nevertheless, this information will surely contribute to the checklist of biodiversity for Armenia.

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Jahr/Year: 2021

Band/Volume: [61](#)

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Artikel/Article: [An annotated checklist of spiders deposited in the Arachnida collection of the Institute of Zoology, Scientific Center of Zoology and Hydroecology of the NAS RA, Yerevan, Armenia. Part I 11-19](#)