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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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, Երյան, 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.

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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

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.

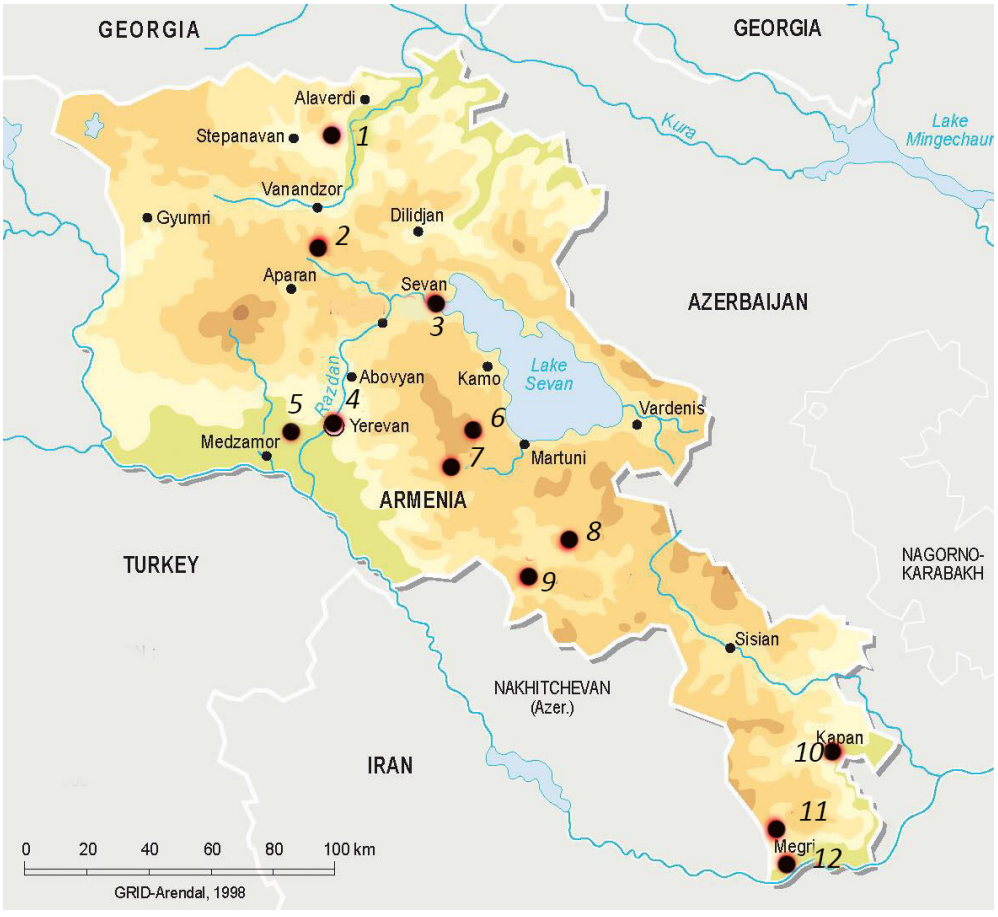

Fig. 1: Map of Armenia with collecting sites (Map provided by Philippe Rekacewicz, Emmanuelle Bournay, UNEP/GRID-Arendal. https://www.grida.no/resources/5338)
1 – Tumanyan;
2 – Hankavan;
3 – Sevan;
4 – Yerevan;
5 – Jrarat;
6 – Goght;
7 – Khosrov;
8 – Yeghegnadzor;
9 – Areni;
10 – Kapan;
11 – Gudemnis;
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 praegrandis 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 (Province names)	Reference
Family Nemesiidae		
Raveniola dunini Zonstein, Kunt & Yağmur, 2018	Syunik	Zonstein et al. (2018)
Family Scytodidae		
Scytodes thoracica (Latreille, 1802)	Unspecified	Mikhailov (2013)
Family Pholcidae		
Pholcus phalangioides (Fuesslin, 1775)**	Lori, Vayots dzor and Yerevan	Current study
Family Dysderidae		
Dysdera armenica Charitonov, 1956	Gegharkunik and Tavush	Charitonov (1956), Dunin (1992)
Dysdera collucata Dunin, 1991	Syunik	Dunin (1992)
Dysdera mazini Dunin, 1991	Syunik	Dunin (1992)
Dysdera richteri Charitonov, 1956	Yerevan and Syunik	Charitonov (1956), Dunin (1992)
Harpactea armenica Dunin, 18899	Yerevan and Ararat	Dunin (1989, 1992)
Harpactea deelemanae Dunin, 1989	Syunik	Dunin (1989, 1992)
Harpactea eskovi Dunin, 1989	Lori	Dunin (1989, 1992)
Harpactea golovatchi Dunin, 1989	Syunik	Dunin (1989, 1992)
Harpactea nachitschevanica Dunin, 1991	Unspecified	Mikhailov (2013)
Harpactea nenilini Dunin, 1989	Syunik	Dunin (1989, 1992)
Harpactea secunda Dunin, 1989	Tavush	Dunin (1989, 1992)
Family Eresidae		
Stegodyphus lineatus (Latreille, 1817)	Tavush	Dunin (1988)
Family Theridiidae		
Enoplognatha latimana Hippa & Oksala, 1982	Gegharkunik	Marusik (1989)
Enoplognatha ovata (Clerck, 1757)	Unspecified	Mikhailov (2013)
Latrodectus tredecimguttatus (Rossi, 1790)	Unspecified	Mikhailov (2013)
Platnickina tincta (Walckenaer, 1802)	Tavush	Kulczyński (1895)
Robertus arundineti (O. Pickard-Cambridge, 18917)	Tavush and Syunik	Eskov (1987)
Family Linyphiidae		
Agyneta conigera (O. Pickard-Cambridge, 1863)	Tavush	Tanasevitch (1990)
Agyneta ramosa Jackson, 1912	Tavush	Tanasevitch (1990)
Agyneta rurestris (C. L. Koch, 1836)	Yerevan and Lori	Kulczyński (1895), Tanasevitch (1990)
Araeoncus clavatus Tanasevitch, 1987	Syunik	Tanasevitch (1987)
Bolyphantes alticeps (Sundevall, 1833)	Gegharkunik	Tanasevitch (1987)
Centromerus minor Tanasevitch, 1990	Syunik, Lori and Tavush	Tanasevitch (1990)
Ceratinella brevis (Wider, 1834)	Tavush	Tanasevitch (1990)
Ceratinella scabrosa (O. Pickard-Cambridge, 1871)	Lori	Tanasevitch (1990)
Diplocephalus latifrons (O. Pickard-Cambridge, 1863)	Tavush and Lori	Tanasevitch (1990)
Diplocephalus picinus (Blackwall, 1841)	Lori	Tanasevitch (1990)
Diplostyla concolor (Wider, 1834)	Syunik, Lori and Tavush	Tanasevitch (1987, 1990)
Erigone dentipalpis (Wider, 1834)	Tavush and Gegharkunik	Tanasevitch (1987, 1990)
Erigonoplus globipes (L. Koch, 1872)	Gegharkunik	Tanasevitch (1990)
Linyphia hortensis Sundevall, 1830	Tavush and Gegharkunik	Tanasevitch (1987, 1990)
Linyphia tenuipalpis Simon, 1884	Gegharkunik	Tanasevitch (1987)
Micrargus herbigradus (Blackwall, 1854)	Lori	Tanasevitch (1990)

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

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

Species	Distribution in Armenia (Province names)	Reference
Family Thomisidae		
Diaea dorsata (Fabricius, 1777)	Tavush	Kulczyński (1895)
Ebrechtella tricuspidata (Fabricius, 1775)	Tavush	Charitonov (1936)
Heriaeus oblongus Simon, 1918**	Vayots dzor	Current study
Misumena vatia (Clerck, 1757)	Tavush	Kulczyński (1895)
Ozyptila lugubris (Kroneberg, 1875)	Unspecified	Mikhailov (2013)
Pistius truncatus (Pallas, 1772)	Armavir	Koch (1878)
Psammitis ninnii (Thorell, 1872)	Unspecified	Mikhailov (2013)
Runcinia grammica (C. L. Koch, 1837)	Yerevan	Kulczyński (1895), Mcheidze (1964)
Spiracme striatipes (L. Koch, 1870)**	Yerevan	Current study
Synema plorator (O. Pickard-Cambridge, 1872)	Yerevan, Syunik	Mcheidze (1997)
Thomisus onustus Walckenaer, 1805	Unspecified	Mikhailov (1999)
Tmarus piger (Walckenaer, 1802)	Armavir	Koch (1878)
Xysticus audax (Schrank, 1803)	Tavush	Kulczyński (1895)
Xysticus bifasciatus C. L. Koch, 1837 **	Yerevan	Current study
Xysticus gallicus Simon, 1875**	Ararat and Vayots dzor	Current study
Xysticus kochi Thorell, 1872	Tavush and Vayots dzor	Kulczyński (1895), current study
Xysticus lanio C. L. Koch, 1835	Unspecified	Mikhailov (2013)
Family Salticidae		
Asianellus potanini (Schenkel, 1963)	Yerevan	Logunov (2015)
Attulus dzieduszyckii (L. Koch, 1870)	Armavir	Logunov (2015)
Attulus saltator (O. Pickard-Cambridge, 1868)	Unspecified	Mikhailov (2000)
Attulus vilis (Kulczyński, 1895)	Gegharkunik	Kulczyński (1895)
Ballus chalybeius (Walckenaer, 1802)	Syunik	Logunov & Rakov (1998)
Chalcoscirtus tanasevichi Marusik, 1991	Gegharkunik	Logunov & Marusik (1999)
Chinattus caucasicus Logunov, 1999	Lori, Syunik and Tavush	Logunov & Guseinov (2002)
Dendryphantes rudis (Sundevall, 1833)	Tavush	Kulczyński (1895)
Euophrys frontalis (Walckenaer, 1802)	Artsakh	Logunov (2015)
Evarcha arcuata (Clerck, 1757)	Armavir and Tavush	Koch (1878), Logunov (2015)
Evarcha armeniaca Logunov, 1999	Syunik	Logunov (1999)
Heliophanus auratus C. L. Koch, 1835	Gegharkunik	Rakov & Logunov (1997) Logunov (2015)
Heliophanus cupreus (Walckenaer, 1802)	Lori, Syunik and Tavush	Logunov & Guseinov (2002)
Heliophanus equester L. Koch, 1867	Yerevan	Kulczyński (1895)
Heliophanus flavipes (Hahn, 1832)	Tavush	Logunov & Guseinov (2002)
Heliophanus forcipifer Kulczyński, 1895	Unspecified	Wesołowska (1986)
Heliophanus lineiventris Simon, 1868	Tavush	Logunov & Guseinov (2002)
Heliophanus patagiatus Thorell, 1875	Kotayk	Logunov (2015)
Menemerus marginatus (Kroneberg, 1875)	Unspecified	Mikhailov (2013)
Myrmarachne formicaria (De Geer, 1778)	Tavush	Logunov & Guseinov (2002)
Philaeus chrysops (Poda, 1761)	Gegharkunik and Tavush	Logunov & Guseinov (2002)
Phlegra cinereofasciata (Simon, 1868)	Gegharkunik	Logunov (1996)
Pseudeuophrys erratica (Walckenaer, 1826)	Syunik and Tavush	Logunov & Guseinov (2002)
Pseudicius pseudocourtauldi Logunov, 1999	Syunik	Logunov (1999)
Pseudomogrus albocinctus (Kroneberg, 1875)	Unspecified	Mikhailov (2013)
Salticus tricinctus (C. L. Koch, 1846)	Gegharkunik	Logunov (2015)
Synageles persianus 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 families that are not included in current checklist (Filistatidae, Mimetidae, Oecobiidae, Uloboridae, Pisauridae and Agelenidae). 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 lable) until new material can be collected from the locality.
Concerning *Clubiona caerulescens/caucasica,* that original lable 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 lable 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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