



CHECKLIST OF SPIDER (ARACHNIDA: ARANEAE) FAUNA OF KASHMIR

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ABSTRACT

A checklist of spiders from Kashmir, India, is provided which indicates the occurrence of 185 species under 100 genera and 25 families. The checklist is based primarily on the published records of spiders of Kashmir from 1885 to 2023 (up to January). These faunistic records reveal that the most diverse spider families in this region are Salticidae, Linyphiidae, Araneidae, Gnaphosidae, Thomisidae, Lycosidae and Theridiidae while about 11 families (Cheiracanthiidae, Clubionidae, Ctenidae, Filistatidae, Liocranidae, Mimetidae, Oxyopidae, Pimoidae, Scytodidae, Sicariidae and Uloboridae) are represented by a lone genus. The checklist includes taxa that have been identified upto species level. This checklist compiles the available regional faunistic records to serve future research.

Key words: Spiders, Kashmir Himalaya, North Western Himalaya, Arachnids, Araneae, families, genera, list, biodiversity hotspot

Spiders are one of the most omnipresent and a considerably diverse group of arachnids. At present there are 50,871 identified species worldwide (World Spider Catalog, 2023). In India, there are currently 1929 known species (Caleb and Sankaran, 2023). Numerous unrecorded or unknown species, especially from the north-western parts of India remain, where only a few studies have been undertaken some of which are archaic. The work carried out by Pickard-Cambridge (1885) is antiquated as it is more than a century old. Compilation of Caporiacco (1934 and 1935) is outdated at present due to several synonymies, zoogeographical reorganisation and taxonomic regroupings as the study was carried in the entire Himalayan belt of which, now parts are governed by India, Pakistan and China separately. A lion's share of the species have been inadequately described outside the context of any revisionary work, and there has been little comparative research. Therefore, such works are in need of a thorough revision. The work carried out by Dayal (1942), Tikader and Bal (1981), Zabka (1981), Tikader (1982), Sadana (1983), Thaler (1987), Gajbe (1988), Majumder and Tikader (1991) and Hormiga (1994) is highly relevant to the present study. Recent contributions focused on systematic accounts and species enumeration include those of Khan (2009, 2011a and b, 2012a and b, 2013 a and b), Khan and Rather (2012), Chakrabarti (2013), Khan and Khan (2013), Lone et al. (2015), Punjoo and Bhat (2015), Shah and Buhroo (2022) and Singh et al.

(2023). Although the spider fauna of Kashmir is highly diverse, the spider taxonomy remains understudied resulting in the status of many taxa being dubious, since very few detailed research efforts to identify spiders based on their genitalia have ever been undertaken from Kashmir.

MATERIALS AND METHODS

Kashmir is a territory in the northern part of India which covers a total area of 15948 km² with an altitude range from 1600 masl (Srinagar) to 5420 masl (Kolahoi peak, Ganderbal) lying in the north-western Himalaya (33°20' - 34°54' N and 73°55' - 75°35' E). This region is known for its diverse geography and climatic conditions, supporting a rich fauna. Its political boundaries include 10 districts (Anantnag, Bandipora, Baramulla, Budgam, Ganderbal, Kulgam, Kupwara, Pulwama, Shopian and Srinagar). However, the present checklist records species from 9 out of 10 districts of Kashmir as no species has ever been recorded from 1 district (Kulgam). The checklist of spiders is based primarily on thorough literature search and published records available. Every entry in the checklist was verified for its consistency with current taxonomic literature, the one present in the World Spider Catalogue (2023). Regional and global distributional data for each species was collected from the published records of the taxa published between 1885 and 2023 and the World Spider Catalogue (2023).

RESULTS AND DISCUSSION

S.No.	Family/ scientific name	Distribution in Kashmir (District)	Reference	Global distribution
I	Agelenidae C. L. Koch, 1837			
	<i>Agelena labyrinthica</i> (Clerck, 1757)	Srinagar	Caporiacco, 1935	Europe to Central Asia, Mongolia, China, Korea, Japan
2.	<i>Coelotes stylifer</i> Caporiacco, 1935	Ganderbal	Caporiacco, 1935	India
II	Araneidae Clerck, 1757			
3.	<i>Agalenatea redii</i> (Scopoli, 1763)	Srinagar	Caporiacco, 1934	Azores, Europe, Turkey, Caucasus, Russia (Europe to South Siberia), Iran, Central Asia, China
4.	<i>Araneus anantnagensis</i> Tikader and Bal, 1981	Anantnag	Tikader and Bal, 1981; Tikader, 1982; Khan, 2011b	India
5.	<i>Araneus diadematus</i> Clerck, 1757	Srinagar and Anantnag	Punjoo and Bhat, 2015	Europe, Middle East, Turkey, Caucasus, Russia (Europe to Far East), Iran, Central Asia, China, Japan. Introduced to North America
6.	<i>Araneus ellipticus</i> (Tikader and Bal, 1981)	Srinagar and Anantnag	Punjoo and Bhat, 2015	India, Bangladesh, China, Thailand, Laos
7.	<i>Araneus gibber</i> (O. Pickard-Cambridge, 1885)	Ganderbal	Pickard-Cambridge, 1885	India
8.	<i>Araneus pahalgaoensis</i> Tikader and Bal, 1981	Srinagar	Tikader, 1982; Khan, 2009; Khan and Rather, 2012; Punjoo and Bhat, 2015	India, China
		Budgam	Khan and Rather, 2012	
		Anantnag	Tikader and Bal, 1981; Khan and Rather, 2012; Punjoo and Bhat, 2015	
9.	<i>Araneus panchganiensis</i> Tikader and Bal, 1981	Srinagar	Khan, 2009; Khan and Rather, 2012	India
		Budgam	Khan and Rather, 2012	
		Anantnag	Khan and Rather, 2012	
10.	<i>Araneus panniferens</i> Pickard-Cambridge, 1885)	Ganderbal	Pickard-Cambridge, 1885	India
11.	<i>Araneus pellax</i> (O. Pickard-Cambridge, 1885)	Ganderbal	Pickard-Cambridge, 1885	India
12.	<i>Araneus pontii</i> Caporiacco, 1934	Srinagar	Caporiacco, 1934	India
13.	<i>Araneus praedatus</i> (O. Pickard-Cambridge, 1885)	Ganderbal	Pickard-Cambridge, 1885	India
14.	<i>Araneus trifolium</i> (Hentz, 1847)	Baramulla	Khan, 2011a; Khan, 2012a	USA, Canada, India
		Srinagar	Khan, 2011a; Khan, 2011b; Khan, 2012a; Khan and Rather, 2012	
		Pulwama	Khan, 2011a	

15.	<i>Araniella cucurbitina</i> (Clerck, 1757)	Baramulla	Caporiacco, 1934; Khan, 2011a; Khan, 2012a	Europe, Turkey, Russia (Europe) to Central Asia, China, Korea
		Srinagar	Caporiacco, 1934; Khan, 2009; Khan, 2011a; Khan, 2012a; Punjoo and Bhat, 2015	
		Pulwama	Khan, 2011a; Khan, 2012a	
		Anantnag	Punjoo and Bhat, 2015	
		Ganderbal	Pickard-Cambridge, 1885	
		Shopian	Khan, 2012a	
16.	<i>Araniella nympha</i> (Simon, 1889)	Srinagar	Sadana, 1983; Punjoo and Bhat, 2015	Pakistan, India, China
		Anantnag	Sadana, 1983; Punjoo and Bhat, 2015	
17.	<i>Chorizopes congener</i> O. Pickard-Cambridge, 1885	Ganderbal	Pickard-Cambridge, 1885	India
18.	<i>Chorizopes stoliczkae</i> O. Pickard-Cambridge, 1885	Ganderbal	Pickard-Cambridge, 1885	India
19.	<i>Cyclosa conica</i> (Pallas, 1772)	Srinagar and Anantnag	Punjoo and Bhat, 2015	
20.	<i>Cyclosa elongata</i> Biswas and Raychaudhuri, 1998	Baramulla	Khan, 2011a; Khan, 2012a	Bangladesh, India
		Srinagar	Khan, 2009; Khan, 2011a; Khan, 2011b; Khan, 2012a; Punjoo and Bhat, 2015	
		Budgam	Khan, 2011b Khan and Rather, 2012	
		Pulwama	Khan, 2011; Khan, 2012a	
		Anantnag	Khan and Rather, 2012; Punjoo and Bhat, 2015	
		Shopian	Khan, 2012a	
21.	<i>Cyclosa kashmirica</i> Caporiacco, 1934	Ganderbal	Caporiacco, 1934	North America, Europe, Turkey, Caucasus, Russia (Europe to Far East), Iran, Central Asia, China
22.	<i>Cyrtarachne pallida</i> O. Pickard-Cambridge, 1885	Ganderbal	Pickard-Cambridge, 1885	India
23.	<i>Neoscona achine</i> (Simon, 1906)	Srinagar and Anantnag	Punjoo and Bhat, 2015	India, China
24.	<i>Neoscona mukerjei</i> Tikader, 1980	Baramulla	Sadana, 1983; Khan, 2011; Khan, 2012a	Pakistan, India, Bangladesh
		Srinagar	Sadana, 1983; Khan, 2009; Khan, 2011a; Khan, 2011b; Khan, 2012a; Khan, 2012b; Khan and Rather, 2012; Punjoo and Bhat, 2015	
		Budgam	Khan, 2011b Khan and Rather, 2012	
		Pulwama	Khan, 2011a; Khan, 2012a	
		Anantnag	Khan, 2011b; Khan and Rather, 2012; Punjoo and Bhat, 2015	
		Shopian	Khan, 2012a	
25.	<i>Neoscona pavida</i> (Simon, 1906)	Srinagar and Anantnag	Punjoo and Bhat, 2015	Pakistan, India, China

26.	<i>Neoscona shillongensis</i> Tikader and Bal, 1981	Baramulla Srinagar Pulwama	Khan, 2011a; Khan, 2012a; Khan, 2013b Khan, 2009; Khan, 2011a; Khan, 2012a Khan and Rather, 2012 Khan, 2011a; Khan, 2012a; Khan, 2013b	Pakistan, India, China
27.	<i>Neoscona theisi</i> (Walckenaer, 1841)	Baramulla Srinagar Budgam Pulwama Anantnag Shopian	Khan, 2011a; Khan, 2012a Khan, 2009; Khan, 2011a; Khan, 2012a; Punjoo and Bhat, 2015 Khan, 2011b Khan and Rather, 2012 Khan, 2011a, Khan, 2012a Khan, 2011b; Punjoo and Bhat, 2015 Khan, 2012a	Cyprus, Israel, Caucasus (Georgia, Russia), Iran, Pakistan, India, Nepal, Philippines, China to Indonesia, Japan, Australia. Introduced to Seychelles, Pacific Is.
28.	<i>Neoscona vigilans</i> (Blackwall, 1865)	Srinagar and Anantnag	Khan, 2013a; Punjoo and Bhat, 2015	Africa, Asia (without Russia)
29.	<i>Plebs himalayaensis</i> (Tikader, 1975)	Srinagar Anantnag	Sadana, 1983; Punjoo and Bhat, 2015 Punjoo and Bhat, 2015	India
	<i>Singa chota</i> Tikader, 1970	Baramulla and Srinagar	Sadana, 1983	India
31.	<i>Zygiella x-notata</i> (Clerck, 1757)	Srinagar	Caporiacco, 1934	Europe, Turkey, Caucasus, Iran? Introduced to North America, Chile, Uruguay, Argentina, China, Japan, Réunion
III	Cheiracanthiidae Wagner, 1887			
32.	<i>Cheiracanthium approximatum</i> O. Pickard-Cambridge, 1885	Ganderbal	Pickard-Cambridge, 1885	Pakistan, India, Myanmar, Laos to China, Taiwan, Philippines
33.	<i>Cheiracanthium himalayense</i> Gravely, 1931	Baramulla Srinagar Pulwama Shopian	Khan, 2012a; Khan, 2013b Khan, 2009; Khan, 2011a; Khan, 2012a Khan, 2011a; Khan, 2013b Khan, 2012a	India
34.	<i>Cheiracanthium kashmirensis</i> Majumder and Tikader, 1991	Srinagar	Majumder and Tikader, 1991	India
IV	Clubionidae Wagner, 1887			
35.	<i>Clubiona deletrix</i> O. Pickard- Cambridge, 1885	Ganderbal	Pickard-Cambridge, 1885	India
36.	<i>Clubiona drassodes</i> O. Pickard- Cambridge, 1874	Srinagar and Anantnag	Punjoo and Bhat, 2015	India, Bangladesh, China
37.	<i>Clubiona japonicola</i> Bosenberg and Strand, 1906	Baramulla Srinagar Budgam Pulwama Anantnag	Khan, 2011a; Khan, 2012a Khan, 2009; Khan, 2011a; Khan, 2011b; Khan and Rather, 2012 Khan, 2011b; Khan and Rather, 2012 Khan, 2011a; Khan, 2012a Khan, 2011b; Khan and Rather, 2012	Russia (Far East), Korea, Japan, China, Taiwan, Philippines, Indonesia

V	Ctenidae Keyserling, 1877			
38.	<i>Bowie cochinchensis</i> Gravely, 1931	Srinagar	Khan, 2009; Khan and Khan, 2013	India
39.	<i>Bowie himalayensis</i> Gravely, 1931	Baramulla Srinagar Pulwama Shopian	Khan, 2012a Khan, 2009; Khan, 2011a; Khan, 2012a Khan, 2011a; Khan, 2012a Khan, 2012a	India
40.	<i>Bowie indicus</i> Gravely, 1931	Baramulla Srinagar Pulwama Shopian	Khan, 2011a; Khan, 2012a Khan, 2009; Khan, 2011a; Khan, 2012a Khan, 2011a; Khan, 2012a Khan, 2012a	India
41.	<i>Bowie meghalayaensis</i> Tikader, 1976	Srinagar	Khan, 2009; Khan and Khan, 2013	India
42.	<i>Bowie sikkimensis</i> Gravely, 1931	Srinagar	Khan, 2009; Khan and Khan, 2013	India
VI	Dictynidae O. Pickard-Cambridge, 1871			
43.	<i>Archaeodictyna consecuta</i> (O. Pickard-Cambridge, 1872)	Ganderbal and Srinagar	Caporiacco, 1934	Europe, Caucasus, Russia (Europe to South Siberia), Iran, Central Asia, China
44.	<i>Lathys sindi</i> (Caporiacco, 1934)	Ganderbal and Srinagar	Caporiacco, 1934	India
45.	<i>Nigma puella</i> (Simon, 1870)	Srinagar	Caporiacco, 1934	Azores, Madeira, Canary Is., Europe
VII	Filstatidae Simon, 1864			
46.	<i>Zaitunia rufa</i> (Caporiacco, 1934)	Srinagar	Caporiacco, 1934	Pakistan, India
VIII	Gnaphosidae Banks, 1892			
47.	<i>Berlandina drassodea</i> (Caporiacco, 1934)	Ganderbal	Caporiacco, 1934	India
48.	<i>Berlandina plumalis</i> (O. Pickard-Cambridge, 1872)	Ganderbal and Srinagar	Caporiacco, 1934	West Africa, Mediterranean to Central Asia, Iran
49.	<i>Drassodes carinivulvus</i> Caporiacco, 1934	Srinagar	Tikader, 1982	India
50.	<i>Drassodes dispulsus</i> (O. Pickard-Cambridge, 1885)	Ganderbal	Pickard-Cambridge, 1885	China (Yarkand), India, Tajikistan or Afghanistan
51.	<i>Drassodes himalayensis</i> Tikader and Gajbe, 1975	Srinagar Ganderbal	Tikader, 1982 Gajbe, 1988	India
52.	<i>Drassodes involutus</i> (O. Pickard-Cambridge, 1885)	Ganderbal	Pickard-Cambridge, 1885	India
53.	<i>Drassodes parvidens</i> Caporiacco, 1934	Ganderbal Srinagar	Caporiacco, 1934 Caporiacco, 1934; Tikader, 1982	India, Pakistan
54.	<i>Drassodes rubicundulus</i> Caporiacco, 1934	Ganderbal	Caporiacco, 1934	India, Pakistan
55.	<i>Gnaphosa stoliczkai</i> O. Pickard-Cambridge, 1885	Kashmir	Tikader, 1982	Mongolia, China, India
56.	<i>Haplodrassus dalmatensis</i> (L. Koch, 1866)	Srinagar and Anantnag	Punjoo and Bhat, 2015	Europe, North Africa, Turkey, Caucasus, Middle East, Russia (Europe) to Central Asia

57.	<i>Haplodrassus omissus</i> (O. Pickard-Cambridge, 1872)	Ganderbal	Caporiacco, 1934	Canary Is., Morocco, Mediterranean
58.	<i>Haplodrassus signifer</i> (C. L. Koch, 1839)	Ganderbal	Caporiacco, 1934	North America, Europe, North Africa, Turkey, Caucasus, Russia (Europe to Far East), Israel, Iran, Central Asia, China, Korea
59.	<i>Micaria dives</i> (Lucas, 1846)	Ganderbal	Caporiacco, 1935	Europe, Turkey, Israel, Caucasus, Russia (Europe to Far East), Iran, Central Asia, India, China, Korea, Japan
60.	<i>Sergiolus montanus</i> (Emerton, 1890)	Srinagar and Anantnag	Punjoo and Bhat, 2015	North America, India
61.	<i>Talanites tibialis</i> Caporiacco, 1934	Srinagar	Caporiacco, 1934; Tikader, 1982	India, Pakistan
62.	<i>Zelotes desioi</i> Caporiacco, 1934	Srinagar	Caporiacco, 1934; Tikader, 1982	India
63.	<i>Zelotes pseudopusillus</i> Caporiacco, 1934	Kashmir	Tikader, 1982	India
64.	<i>Zelotes sindi</i> Caporiacco, 1934	Ganderbal	Caporiacco, 1934	India, Pakistan
IX	Liocranidae Simon, 1897			
65.	<i>Apostenus annulipes</i> Caporiacco, 1935	Srinagar	Caporiacco, 1935	India
X	Linyphiidae Blackwall, 1859			
66.	<i>Erigone dentipalpis</i> (Wider, 1834)	Ganderbal	Caporiacco, 1935; Pickard-Cambridge, 1885	Europe, North Africa, Turkey, Caucasus, Russia (Europe to Far East), Kazakhstan, Iran, Central Asia, China. Introduced to Canada
67.	<i>Erigone pseudovagans</i> Caporiacco, 1935	Ganderbal	Caporiacco, 1935	India
68.	<i>Erigone rohtangensis</i> Tikader, 1981	Srinagar, Budgam and Anantnag	Khan, 2011b; Khan and Rather, 2012	India
69.	<i>Gongylidiellum confusum</i> Thaler, 1987	Baramulla, Ganderbal and Anantnag	Thaler, 1987	Pakistan, India
70.	<i>Heterolinyphia tarakotensis</i> Wunderlich, 1973	Baramulla	Thaler, 1987	India, Nepal
71.	<i>Himalaphantes martensi</i> (Thaler, 1987)	Anantnag	Thaler, 1987	India, Nepal
72.	<i>Indophantes digitulus</i> (Thaler, 1987)	Baramulla, Ganderbal and Anantnag	Thaler, 1987	Pakistan, India, Nepal
73.	<i>Lepthyphantes allegrii</i> Caporiacco, 1935	Bandipora	Caporiacco, 1935	India
74.	<i>Lepthyphantes bhudbari</i> Tikader, 1970	Baramulla Srinagar and Pulwama Shopian	Khan, 2011a Khan, 2011a; Khan, 2012a Khan, 2012a	India
75.	<i>Lepthyphantes leprosus</i> (Ohlert, 1865)	Srinagar and Anantnag	Punjoo and Bhat, 2015	North America, Europe, Turkey, Caucasus, Russia (Europe to Far East), Kazakhstan. Introduced to North America, Chile

76.	<i>Lepthyphantes lingsoka</i> Tikader, 1970	Baramulla and Anantnag	Sadana, 1983	India
77.	<i>Lepthyphantes perampus</i> (O. Pickard-Cambridge, 1885)	Ganderbal	Pickard-Cambridge, 1885	India
78.	<i>Linyphia consanguinea</i> O. Pickard-Cambridge, 1885	Ganderbal	Pickard-Cambridge, 1885	Pakistan, India
79.	<i>Linyphia triangularis</i> (Clerck, 1757)	Srinagar and Anantnag	Punjoo and Bhat, 2015	Europe, Turkey, Caucasus, Russia (Europe to Far East), Iran, Kazakhstan, China. Introduced to Canada, USA
80.	<i>Megalepthyphantes nebulosus</i> (Sundevall, 1830)	Ganderbal	Caporiacco, 1934	North America, Europe, Turkey, Caucasus, Russia (Europe to Far East)
81.	<i>Microlinyphia pusilla</i> (Sundevall, 1830)	Bandipora	Caporiacco, 1934	North America, Europe, North Africa, Turkey, Caucasus, Russia (Europe to Far East), Kazakhstan, Iran, Central Asia, China, Mongolia, Japan
82.	<i>Neriere birmanica</i> (Thorell, 1887)	Srinagar	Caporiacco, 1935	India, Myanmar, Laos, China, Indonesia
83.	<i>Neriere clathrata</i> (Sundevall, 1830)	Anantnag	Thaler, 1987	North America, Europe, North Africa, Turkey, Caucasus, Russia (Europe to Far East), Iran, Central Asia, China, Korea, Japan
84.	<i>Neriere radiata</i> (Walckenaer, 1841)	Srinagar	Chakrabarti, 2013	North America, Europe, Turkey, Caucasus, Russia (Europe to Far East), Kazakhstan, China, Korea, Japan
85.	<i>Mitrager globiceps</i> (Thaler, 1987)	Anantnag	Thaler, 1987	India
86.	<i>Oedothorax dubius</i> Caporiacco, 1935	Srinagar	Caporiacco, 1935	India
87.	<i>Piniphantes himalayensis</i> (Simon, 1884)	Ganderbal	Thaler, 1987	Pakistan, Nepal, India
88.	<i>Scotargus pilosus</i> Simon, 1913	Anantnag	Thaler, 1987	Europe, Algeria, Caucasus, Russia (Europe to Far East), Kazakhstan, Central Asia, Nepal
89.	<i>Tiso megalops</i> Caporiacco, 1935	Ganderbal	Caporiacco, 1935	India
90.	<i>Troxochrota kashmirica</i> (Caporiacco, 1935)	Ganderbal and Srinagar	Caporiacco, 1935	India
XI	Lycosidae Sundevall, 1833			
91.	<i>Evippomma evippiforme</i> (Caporiacco, 1935)	Ganderbal and Srinagar	Caporiacco, 1935	India
92.	<i>Hippasa agelenoides</i> (Simon, 1884)	Srinagar and Anantnag	Punjoo, 2015	Pakistan, India, Myanmar
93.	<i>Hippasa flavicoma</i> Caporiacco, 1935	Srinagar	Caporiacco, 1935	India
94.	<i>Hogna rubromandibulata</i> (O. Pickard-Cambridge, 1885)	Ganderbal	Caporiacco, 1935; Pickard-Cambridge, 1885	India
95.	<i>Pardosa algooides</i> Schenkel, 1963	Srinagar Baramulla Srinagar, Budgam, Anantnag Pulwama	Khan, 2011a; Khan, 2012a Khan and Rather, 2012 Khan, 2011a	Pakistan, India, Bangladesh, China

96.	<i>Pardosa altitudis</i> Tikader and Malhotra, 1980	Baramulla Srinagar Budgam Pulwama Anantnag Shopian	Khan, 2011a; Khan, 2012a Khan, 2013b Khan, 2011a; Khan, 2011b; Khan, 2012a; Khan and Rather, 2012; Khan, 2013a Khan, 2011b; Khan and Rather, 2012 Khan, 2011a Khan, 2013b Khan, 2011b; Khan and Rather, 2012 Khan, 2012a	India, China
97.	<i>Pardosa flavisterna</i> Caporiacco, 1935	Ganderbal Srinagar Anantnag Pulwama, Baramulla, Bandipora, Kupwara and Budgam	Caporiacco, 1935; Shah and Buhroo, 2022 Caporiacco, 1935; Punjoo and Bhat, 2015; Shah and Buhroo, 2022 Punjoo and Bhat, 2015:711; Shah and Buhroo, 2022 Shah and Buhroo, 2022	Pakistan, India
98.	<i>Pardosa fortunata</i> (O. Pickard-Cambridge, 1885)	Ganderbal	Pickard-Cambridge, 1885	India, China (Yarkand), Tajikistan or Afghanistan
99.	<i>Pardosa fuscula</i> (Thorell, 1875)	Srinagar and Anantnag	Punjoo and Bhat, 2015	USA, Canada, India
100.	<i>Pardosa hydaspis</i> Caporiacco, 1935	Srinagar	Caporiacco, 1935	India
101.	<i>Pardosa stellata</i> (O. Pickard-Cambridge, 1885)	Ganderbal	Caporiacco, 1935	China (Yarkand), Tajikistan or Afghanistan, India
102.	<i>Pardosa tridentis</i> Caporiacco, 1935	Ganderbal	Caporiacco, 1935	India, Nepal
103.	<i>Pardosa vindicata</i> (O. Pickard-Cambridge, 1885)	Ganderbal	Caporiacco, 1935	Pakistan, China (Yarkand), India
104.	<i>Schizocosa concolor</i> (Caporiacco, 1935)	Ganderbal	Caporiacco, 1935	India
105.	<i>Trochosa propinqua</i> O. Pickard-Cambridge, 1885	Ganderbal	Pickard-Cambridge, 1885	India
106.	<i>Trochosa terricola</i> Thorell, 1856	Ganderbal	Caporiacco, 1935	North America, Europe, Turkey, Caucasus, Russia (Europe to Far East), Kazakhstan, Iran, Central Asia, China, Japan
XII	Mimetidae Simon, 1881			
107.	<i>Mimetus laevigatus</i> (Keyserling, 1863)	Srinagar	Caporiacco, 1934	Mediterranean to Central Asia, India
XIII	Oxyopidae Thorell, 1869			
108.	<i>Oxyopes birmanicus</i> Thorell, 1887	Srinagar and Anantnag	Punjoo and Bhat, 2015	India, China to Indonesia
109.	<i>Oxyopes elegans</i> L. Koch, 1878	Srinagar and Anantnag	Punjoo and Bhat, 2015	Australia, India

110.	<i>Oxyopes hindostanicus</i> Pocock, 1901	Baramulla Srinagar Budgam Pulwama Anantnag Shopian	Khan, 2011a Khan, 2009; Khan, 2011a; Khan, 2011b; Khan, 2012a; Khan and Rather, 2012 Khan, 2011b; Khan and Rather, 2012 Khan, 2011a; Khan, 2012a Khan, 2011b; Khan and Rather, 2012 Khan, 2012a	
111.	<i>Oxyopes javanus</i> Thorell, 1887	Baramulla Srinagar Budgam Pulwama Anantnag Shopian	Khan, 2011a Khan, 2009; Khan, 2011a; Khan, 2011b; Khan, 2012a; Khan and Rather, 2012 Khan, 2011b; Khan and Rather, 2012 Khan, 2011a; Khan, 2012a Khan, 2011b; Khan and Rather, 2012 Khan, 2012a	India, Nepal, Bangladesh, Thailand, Indonesia, Philippines, China
112.	<i>Oxyopes jubilans</i> O. Pickard-Cambridge, 1885	Srinagar Ganderbal	Caporiacco, 1935 Pickard Cambridge, 1885	India
113.	<i>Oxyopes lineatus</i> Latreille, 1806	Srinagar and Anantnag	Punjoo and Bhat, 2015	Europe, Turkey, Caucasus, Russia (Europe to Central Asia), Middle East, Central Asia, Nepal
114.	<i>Oxyopes praedictus</i> O. Pickard-Cambridge, 1885	Ganderbal	Pickard-Cambridge, 1885	India
115.	<i>Oxyopes ramosus</i> (Martini and Goeze, 1778)	Srinagar and Anantnag	Punjoo, 2015	Europe, Turkey, Caucasus, Russia (Europe to South Siberia), Kazakhstan, Korea, India
116.	<i>Oxyopes rejectus</i> O. Pickard-Cambridge, 1885	Ganderbal	Pickard-Cambridge, 1885	India
XIV	Philodromidae Thorell, 1870			
117.	<i>Philodromus cinereus</i> O. Pickard-Cambridge, 1876	Srinagar	Caporiacco, 1935	Egypt, India
118.	<i>Thanatus albescens</i> O. Pickard-Cambridge, 1885	Ganderbal	Pickard-Cambridge, 1885	India
119.	<i>Thanatus coloradensis</i> Keyserling, 1880	Srinagar and Anantnag	Punjoo and Bhat, 2015	North America, Europe, Turkey, Russia (Caucasus to Far East), Kazakhstan, China
120.	<i>Thanatus vulgaris</i> Simon, 1870	Ganderbal	Caporiacco, 1935	Europe, North Africa, Turkey, Caucasus, Russia (Europe to Far East), Middle East, Iran, Kazakhstan, Central Asia, China, Korea, Japan. Introduced to North America, South Africa, Australia
XV	Pholcidae C. L. Koch, 1850			
121.	<i>Crossopriza lyoni</i> (Blackwall, 1867)	Ganderbal	Caporiacco, 1934	Probably native to Africa and/or Asia. Introduced to the Americas, Belgium, Germany, Australia, Micronesia

122.	<i>Pholcus phalangioides</i> (Fuesslin, 1775)	Srinagar and Anantnag	Punjoo and Bhat, 2015	Western Asia. Introduced to both Americas, Europe, Africa, Asia, Australia, New Zealand and numerous islands.
123.	<i>Physocyclus globosus</i> (Taczanowski, 1874)	Srinagar and Anantnag	Punjoo and Bhat, 2015	North America. Introduced to Africa, Czechia, Iran, Sri Lanka, China, India, Japan, Philippines, Indonesia, Australia, Pacific islands, Galapagos
XVI	Pimoidae Wunderlich, 1986			
124.	<i>Pimoa gandhii</i> Hormiga, 1994	Anantnag	Hormiga, 1994	India
XVII	Pisauridae Simon, 1890			
125.	<i>Perenethis dentifasciata</i> (O. Pickard-Cambridge, 1885)	Ganderbal	Pickard-Cambridge, 1885	India
126.	<i>Pisaura mirabilis</i> (Clerck, 1757)	Srinagar and Anantnag	Punjoo and Bhat, 2015	Europe, Turkey, Middle East, Caucasus, Russia (Europe to Middle Siberia), Central Asia, China, India
127.	<i>Stoliczka affinis</i> Caporiacco, 1935	Srinagar	Caporiacco, 1935	Pakistan, India
XVIII	Salticidae Blackwall, 1841			
128.	<i>Afraflacilla flavipes</i> (Caporiacco, 1935)	Srinagar	Caporiacco, 1935	Turkmenistan, Pakistan, India
129.	<i>Attulus diductus</i> (O. Pickard-Cambridge, 1885)	Srinagar	Caporiacco, 1935	Pakistan, India
130.	<i>Bianor albobimaculatus</i> (Lucas, 1846)	Srinagar and Anantnag	Punjoo and Bhat, 2015	Africa, Mediterranean to Russia (Europe), Azerbaijan, Kazakhstan, Iran, Central Asia, Afghanistan, Pakistan, India, Nepal
131.	<i>Brettus anchorum</i> Wanless, 1979	Srinagar	Chakrabarti, 2013	India, Nepal
132.	<i>Chalcoscirtus glacialis</i> Caporiacco, 1935	Ganderbal	Caporiacco, 1935	USA (Alaska), Russia (Central Asia to Far East), Kazakhstan, Mongolia, India
133.	<i>Cyrba algerina</i> (Lucas, 1846)	Srinagar	Caporiacco, 1935	Canary Is. to Central Asia, India
134.	<i>Dendryphantes caporiaccoi</i> Roewer, 1951	Srinagar	Caporiacco, 1935	India
135.	<i>Euophrys evae</i> Zabka, 1981	Baramulla	Zabka, 1981	India
136.	<i>Evarcha jucunda</i> (Lucas, 1846)	Ganderbal	Caporiacco, 1935	Canary Is., Mediterranean. Introduced to Belgium, Germany, India
137.	<i>Hasarius adansoni</i> (Audouin, 1826)	Ganderbal	Pickard-Cambridge, 1885	Africa, Middle East. Introduced to both Americas, Europe, India, Laos, Vietnam, China, Taiwan, Japan, Australia, Pacific Is.
138.	<i>Myrmaplata plataleoides</i> (O. Pickard-Cambridge, 1869)	Srinagar and Anantnag	Punjoo and Bhat, 2015	India, Sri Lanka, China, Southeast Asia
139.	<i>Myrmarachne corpuzzarosae</i> Barrion, 1981	Srinagar	Khan, 2009	Philippines, India
140.	<i>Myrmarachne hidaspis</i> Caporiacco, 1935	Srinagar	Caporiacco, 1935	India

141.	<i>Myrmarachne himalayensis</i> Narayan, 1915	Baramulla Srinagar Budgam Pulwama Anantnag Shopian	Khan, 2011a Khan, 2011a; Khan, 2012a; Khan and Rather, 2012 Khan, 2011b; Khan and Rather, 2012 Khan, 2011a; Khan, 2012a Khan, 2011b; Khan and Rather, 2012 Khan, 2012a	India
142.	<i>Myrmarachne melanocephala</i> MacLeay, 1839	Srinagar and Anantnag	Punjoo and Bhat, 2015	Pakistan to Indonesia
143.	<i>Nandicius pseudoicioides</i> (Caporiacco, 1935)	Srinagar	Caporiacco, 1935	India
144.	<i>Pellenes allegrii</i> Caporiacco, 1935	Ganderbal and Srinagar	Caporiacco, 1935	Bulgaria, Ukraine, Russia (Europe), Kazakhstan, Central Asia, India
145.	<i>Plexippus paykulli</i> (Audouin, 1826)	Srinagar and Anantnag	Punjoo and Bhat, 2015	Africa. Introduced to both Americas, Europe, Middle East, Nepal, southern Asia, Australia, Pacific Is.
146.	<i>Salticus beneficus</i> (O. Pickard-Cambridge, 1885)	Ganderbal	Pickard-Cambridge, 1885	India
XIX	Scytodidae Blackwall, 1864			
147.	<i>Scytodes thoracica</i> (Latreille, 1802)	Srinagar and Anantnag	Punjoo and Bhat, 2015	Europe, North Africa, Turkey, Iran, temperate Asia to China, Korea, Japan. Introduced to North America, Argentina, South Africa, India, Australia, New Zealand
XX	Sicariidae Keyserling, 1880			
148.	<i>Loxosceles rufescens</i> (Dufour, 1820)	Srinagar and Anantnag	Punjoo and Bhat, 2015	Southern Europe, northern Africa to Iran, Afghanistan. Introduced to USA, Mexico, Peru, Macaronesia, South Africa, India, China, Japan, Korea, Laos, Thailand, Australia, Hawaii
XXI	Sparassidae Bertkau, 1872			
149.	<i>Heteropoda venatoria</i> (Linnaeus, 1767)	Srinagar and Anantnag	Punjoo and Bhat, 2015	Tropical Asia. Introduced to Pacific Is., North, Central and South America, Macaronesia, Europe, Africa, India
150.	<i>Olios rossettii</i> (Leardi, 1901)	Srinagar and Anantnag	Punjoo and Bhat, 2015	Pakistan, India, Nepal
XXII	Tetragnathidae Menge, 1866			
151.	<i>Leucauge celebesiana</i> (Walckenaer, 1841)	Baramulla Srinagar Budgam Pulwama Anantnag Shopian	Khan, 2011a; Khan, 2012a Khan, 2009; Khan, 2011a; Khan, 2012a; Khan and Rather, 2012; Khan, 2013a; Punjoo and Bhat, 2015 Khan, 2011b; Khan and Rather, 2012 Khan, 2011a; Khan, 2012a Khan, 2011b; Khan and Rather, 2012; Punjoo and Bhat, 2015 Khan, 2012a	Russia (Far East), Korea, India to China, Vietnam, Laos, Japan, Indonesia (Sulawesi), New Guinea

152.	<i>Leucauge fastigata</i> (Simon, 1877)	Srinagar	Chakrabarti, 2013	India to Philippines, Indonesia
153.	<i>Mesida culta</i> (O. Pickard-Cambridge, 1869)	Srinagar and Anantnag	Punjoo and Bhat, 2015	India, Sri Lanka
154.	<i>Orsinome vethi</i> (Van Hasselt, 1882)	Baramulla and Srinagar	Sadana, 1983	India, China, Vietnam, Laos, Malaysia, Indonesia
155.	<i>Tetragnatha extensa</i> (Linnaeus, 1758)	Ganderbal and Srinagar	Caporiacco, 1934; Pickard-Cambridge, 1885	North America, Greenland, Europe, Turkey, Caucasus, Russia (Europe to Far East), Iraq, Iran, Kazakhstan, Central Asia, China, Korea, Japan
156.	<i>Tetragnatha javana</i> (Thorell, 1890)	Srinagar and Budgam	Khan, 2011b; Khan and Rather, 2012	Africa, Asia
157.	<i>Tetragnatha keyserlingi</i> Simon, 1890	Srinagar Budgam Anantnag	Khan, 2009; Khan, 2011b; Khan, 2012b; Khan and Rather, 2012; Punjoo and Bhat, 2015 Khan, 2011b Khan and Rather, 2012 Khan, 2011b; Khan and Rather, 2012; Punjoo and Bhat, 2015	Central America, Caribbean, Brazil, Africa, Korea, China, India to Philippines, New Hebrides, Polynesia
158.	<i>Tetragnatha montana</i> Simon, 1874	Srinagar and Anantnag	Punjoo and Bhat, 2015	Europe, Turkey, Caucasus, Russia (Europe to Far East), Kazakhstan, Iran, Central Asia
XXIII	Theridiidae Sundevall, 1833			
159.	<i>Euryopsis sagittata</i> (O. Pickard-Cambridge, 1885)	Ganderbal	Pickard-Cambridge, 1885	India
160.	<i>Euryopsis venutissima</i> (Caporiacco, 1934)	Srinagar	Caporiacco, 1934	India
161.	<i>Nesticodes rufipes</i> (Lucas, 1846)	Srinagar and Anantnag	Punjoo and Bhat, 2015	Central and South America. Introduced to Europe, Macaronesia, North Africa, Middle East, China, India, Japan, Sri Lanka, Indonesia, New Zealand, Pacific Is.
162.	<i>Phylloneta sisypbia torandae</i> (Strand, 1917)	Ganderbal	Pickard-Cambridge, 1885	India
163.	<i>Rugathodes instabilis</i> (O. Pickard-Cambridge, 1871)	Ganderbal	Pickard-Cambridge, 1885	Europe, Russia (Europe to West Siberia)
164.	<i>Steatoda albomaculata</i> (De Geer, 1778)	Ganderbal and Srinagar	Caporiacco, 1934	North America, Europe, North Africa to Israel, Russia (Europe to Far East), Caucasus, Kazakhstan, Iran, Central Asia, China, Korea, Japan
165.	<i>Steatoda grossa</i> (C. L. Koch, 1838)	Srinagar and Anantnag	Punjoo and Bhat, 2015	Europe, Turkey, Russia (Europe to Far East), Caucasus, Iran, Kazakhstan, Central Asia, China, Korea, Japan. Introduced to North and South America, Macaronesia, Africa, New Zealand, Hawaii
166.	<i>Steatoda triangulosa</i> (Walckenaer, 1802)	Srinagar and Anantnag	Punjoo and Bhat, 2015	Europe, Turkey, Caucasus, Russia (Europe to Far East), Kazakhstan, Iran, Central Asia, China, Korea. Introduced to Canada, USA, Canary Is., South Africa
167.	<i>Theridion expallidatum</i> O. Pickard-Cambridge, 1885	Ganderbal	Pickard-Cambridge, 1885	India

168.	<i>Theridion latisternum</i> Caporiacco, 1934	Baramulla	Caporiacco, 1934	India
169.	<i>Theridion manjithar</i> Tikader, 1970	Srinagar	Khan, 2013a	India
170.	<i>Theridion melanurum</i> Hahn, 1831	Srinagar	Caporiacco, 1934	Macaronesia, North Africa, Europe, Turkey, Caucasus, Russia (Europe to Middle Siberia), Middle East. Introduced to USA
171.	<i>Theridion spinosissimum</i> Caporiacco, 1934	Srinagar	Caporiacco, 1934	India
XXIV	Thomisidae Sundevall, 1833			
172.	<i>Ebrechtella tricuspidata</i> <i>concolor</i> (Caporiacco, 1935)	Srinagar	Caporiacco, 1935	India
173.	<i>Misumena oblonga</i> O. Pickard- Cambridge, 1885	Ganderbal	Pickard-Cambridge, 1885	India
174.	<i>Ozyptila trux</i> (Blackwall, 1846)	Srinagar and Anantnag	Punjoo and Bhat, 2015	Europe, Caucasus, Russia (Europe to Far East), Japan. Introduced to Canada
175.	<i>Psammitis xysticiformis</i> (Caporiacco, 1935)	Ganderbal	Caporiacco, 1935	Central Asia, China, India
176.	<i>Runcinia insecta</i> (L. Koch, 1875)	Baramulla Srinagar Pulwama	Khan, 2012a Khan, 2009; Khan, 2012a Khan, 2011a; Khan, 2012a	Africa, Asia. Introduced to Australia
177.	<i>Thomisus nirmali</i> Saha and Raychaudhuri, 2007	Srinagar and Anantnag	Punjoo and Bhat, 2015	India
178.	<i>Thomisus whitakeri</i> Gajbe, 2004	Baramulla, Srinagar and Pulwama Shopian	Khan, 2011a; Khan, 2012a Khan, 2012a	India
179.	<i>Tmarus dejectus</i> (O. Pickard- Cambridge, 1885)	Ganderbal	Pickard-Cambridge, 1885	India
180.	<i>Tmarus stellio</i> Simon, 1875	Srinagar	Caporiacco, 1935	Southern, Central and Eastern Europe, Turkey, Caucasus, Iran, India
181.	<i>Xysticus cristatus</i> (Clerck, 1757)	Ganderbal Srinagar Anantnag	Caporiacco, 1935 Punjoo and Bhat, 2015 Punjoo and Bhat, 2015	Europe, Turkey, Caucasus, Russia (Europe to South Siberia), Kazakhstan, Iran, Central Asia, Nepal, China, Korea, Japan. Introduced to Canada, USA
182.	<i>Xysticus maculiger</i> Roewer, 1951	Bandipora	Caporiacco, 1935	Pakistan, India
183.	<i>Xysticus mundulus</i> O. Pickard- Cambridge, 1885	Ganderbal	Pickard-Cambridge, 1885	India
184.	<i>Xysticus pseudobliteus</i> (Simon, 1880)	Srinagar	Caporiacco, 1935	Russia (Central Asia to Far East), Kazakhstan, Mongolia, China, Korea
XXV	Uloboridae Thorell, 1869			
185.	<i>Uloborus albescens</i> O. Pickard- Cambridge, 1885	Ganderbal	Pickard-Cambridge, 1885	India

The analysis of the faunistic records reveal the occurrence of 185 species under 100 genera and 25 families. The most diverse families of spiders in this area are Salticidae and Linyphiidae (16 genera each) followed by Araneidae (10 genera), Gnaphosidae and Thomisidae (8 genera each). 2 families (Lycosidae and Theridiidae) have been represented by 6 genera each. Family Tetragnathidae is represented by 4 genera. 3 families (Dictynidae, Pholcidae and Pisauridae) are represented by 3 genera each. 3 families (Agelenidae, Philodromidae and Sparassidae) are represented by 2 genera each. 11 families (Cheiracanthiidae, Clubionidae, Ctenidae, Filistatidae, Liocranidae, Mimetidae, Oxyopidae, Pimoidae, Scytodidae, Sicariidae and Uloboridae) have only a single representative genera reported from this area. The checklist includes species reported from 9 out of 10 political districts of Kashmir as no spider species has ever been recorded from one district (Kulgam). Spiders from most families were recorded from Srinagar (23 families) followed by Ganderbal and Anantnag (17 families each), Pulwama (10 families), Shopian (9 families), Baramulla (8 families), Budgam (7 families), Bandipora (2 families) and Kupwara (1 family).

The checklist includes taxa that have been identified upto species level. 4 families (Amaurobiidae, Corinnidae, Desidae, Eresidae) have also been reported from Kashmir (Singh et al., 2023) but have not been included in this checklist as no species has yet been identified from these families. Genera like *Argiope*, *Argyroneta*, *Dictyna*, *Callilepis*, *Setaphis*, *Atypena*, *Milleriana*, *Obscuriphantes*, *Alopecosa*, *Arctosa*, *Evippa*, *Lycosa*, *Marpissa*, *Phidippus*, *Zygoballus*, *Sparassus*, *Eucta*, *Achaearana*, *Anelosimus*, *Coleosoma*, *Enoplognatha*, *Episinus*, *Latrodectus*, *Phoroncida* and *Theridula* have also been reported from Kashmir (Singh et al., 2023) but have not been included in this checklist as species level identification has not been carried out yet. Some spider species vis-a-vis *Araneus trifolium*, *Cyclosa elongata*, *Nigma puella*, *Haplodrassus omissus*, *Sergiolus montanus*, *Piniphantes himalayensis*, *Pardosa fuscata*, *Pardosa vindicata*, *Mimetes laevigatus*, *Oxyopes elegans*, *Oxyopes ramosus*, *Philodromus cinereus*, *Physocyclus globosus*, *Pisaura mirabilis*, *Stoliczka affinis*, *Afraflacilla flavipes*, *Attulus diductus*, *Cyrba algerina*, *Evarcha jucunda*, *Myrmarachne corpuzrarosae*, *Heteropoda venatoria*, *Nesticodes rufipes*, *Psammitis xysticiformis*, *Tmarus stellio* and *Xysticus maculiger* have been reported from India but do not reflect in the distributional records of World Spider Catalogue (2023). However, such species have been

included in the present checklist after critical review of the published data.

The checklist indicates that Kashmir has a rich spider diversity, despite harsh climatic conditions. There is an immense need to record the existing biodiversity in the biodiversity hotspots like Kashmir Himalaya. As spiders of this area are not studied thoroughly, it is anticipated that many new taxa could be identified from this hotspot.

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AUTHOR CONTRIBUTION STATEMENT

NZ contributed in data mining, data handling and prepared the manuscript. MY edited the manuscript. All authors read and approved the manuscript for submission.

CONFLICT OF INTEREST

No conflict of interest.

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