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Research article

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## Novel additions to the jumping spider subfamily Spartaeinae Wanless, 1984 from India (Araneae, Salticidae, Spartaeini)

John T.D. CALEB<sup>1,\*</sup>, Puthoor Pattammal SUDHIN<sup>2</sup>, B.G. NISHA<sup>3</sup>,  
Chinmay C. MALIYE<sup>4</sup>, Rajesh V. SANAP<sup>5</sup>, Gautam KADAM<sup>6</sup> & Souvik SEN<sup>7</sup>

<sup>1</sup>Department of Anatomy, Saveetha Medical College & Hospital, Saveetha Institute of Medical and Technical Sciences, Saveetha University, Chennai 602105, Tamil Nadu, India.

<sup>2,7</sup>Zoological Survey of India, Prani Vigyan Bhawan, M-Block, New Alipore, Kolkata 700053, West Bengal, India.

<sup>3</sup>Chilipili, 4<sup>th</sup> Main 5b Right cross Jayanagar West, Tumkur 572102, Karnataka, India.

<sup>3</sup>Wildlife Aware Nature Club, Tumakuru 572101, Karnataka, India.

<sup>4</sup>#146, Sunkalpalya, Bengaluru 560060, Karnataka, India.

<sup>5</sup>Rudra Heights, Nashik 422010, Maharashtra, India.

<sup>6</sup>Division of Arachnology, Department of Zoology, Sacred Heart College, Thevara, Cochin, Kerala 682 013, India.

\*Corresponding author: [caleb87woodgate@gmail.com](mailto:caleb87woodgate@gmail.com)

<sup>2</sup>Email: [sudhinpp@gmail.com](mailto:sudhinpp@gmail.com)

<sup>3</sup>Email: [bgnisha0@gmail.com](mailto:bgnisha0@gmail.com)

<sup>4</sup>Email: [chinmaycmaliye@gmail.com](mailto:chinmaycmaliye@gmail.com)

<sup>5</sup>Email: [rajeshvsanap@gmail.com](mailto:rajeshvsanap@gmail.com)

<sup>6</sup>Email: [gautamkadam7wild@gmail.com](mailto:gautamkadam7wild@gmail.com)

<sup>7</sup>Email: [sensouvik07@gmail.com](mailto:sensouvik07@gmail.com)

<sup>1</sup>urn:lsid:zoobank.org:author:CFE601A6-E267-4D7F-845E-9A684E14374B

<sup>2</sup>urn:lsid:zoobank.org:author:8AA2CE3E-6C13-4C79-8EFD-AB747EF36112

<sup>3</sup>urn:lsid:zoobank.org:author:180ABAC6-CC37-468F-8BA5-0417713DDEBB

<sup>4</sup>urn:lsid:zoobank.org:author:2A806168-D573-4984-AD88-7D4DEDC5D5D

<sup>5</sup>urn:lsid:zoobank.org:author:FB16FEF1-8F98-4B10-9343-0A4E6263B879

<sup>6</sup>urn:lsid:zoobank.org:author:F099D365-4F6E-48EB-8C59-D3039D239FD0

<sup>7</sup>urn:lsid:zoobank.org:author:5B0AEE87-46BC-4E66-A24B-5917BBDE29A1

**Abstract.** A new spartaeine species, *Spartaeus karigiri* Caleb, Sudhin, Sen & Kadam sp. nov. is described from India. The genera *Sonoita* G.W. Peckham & E.G. Peckham, 1903 and *Spartaeus* Thorell, 1891 are reported for the first time from India. *Marpissa gangasagarensis* Majumder, 2005 syn. nov. is recognized as a junior synonym of *Phaeacius fimbriatus* Simon, 1900. Additionally, distributional data is provided for *Brettus anchorum* Wanless, 1979, *Portia albimana* (Simon, 1900) and *Portia labiata* (Thorell, 1887). Detailed morphological descriptions, illustrations, and distributional maps are also provided.

**Keywords.** Africa, Holcolaetina, new species, *Sonoita*, *Spartaeus*.

Caleb J.T.D., Sudhin P.P., Nisha B.G., Maliye C.C., Sanap R.V., Kadam G. & Sen S. 2025. Novel additions to the jumping spider subfamily Spartaeinae Wanless, 1984 from India (Araneae, Salticidae, Spartaeini). *European Journal of Taxonomy* 997: 77–98. <https://doi.org/10.5852/ejt.2025.997.2925>

## Introduction

The jumping spider family Salticidae Blackwall, 1841 is the most diverse within India, encompassing 326 species distributed across 110 genera (Caleb & Sankaran 2025). The tribe Spartaeini Wanless, 1984, is primarily found in Africa and Asia with a few species found in Europe and Australasia. The subtribe Spartaeina Wanless, 1984, is limited to the Old World (Maddison 2015). In India, this subtribe is represented by 13 species across 8 genera (Caleb & Sankaran 2025). Many members of Spartaeini are known for their unique behaviours, such as preying on other spiders (araneophagy), constructing webs for prey capture, invading the webs of other spiders and aggressive mimicry (Su *et al.* 2007).

During the examination of unidentified jumping spider collections from Karnataka and Tamil Nadu states of India, we identified a member of the genus *Sonoita* G.W. Peckham & E.G. Peckham, 1903 and a new species belonging to the genus *Spartaeus* Thorell, 1891. The genus *Sonoita*, originally described by G.W. Peckham & E.G. Peckham (1903), is primarily known from Africa, with two species recognized to date: *S. ledouxi* Wesolowska & Russell-Smith, 2022, and *S. lightfooti* G.W. Peckham & E.G. Peckham, 1903 (WSC 2025). *Sonoita* is part of the subtribe Holcolaetina Simon, 1901, a strictly African group distinguished by the palp bearing a prominent conductor and a distinct median apophysis (Wanless 1985). The genus *Spartaeus* established by Thorell (1891) comprises 18 species distributed across East Asia and Southeast Asia (WSC 2025).

The present paper aims to achieve the following objectives: (1) provide detailed description of a new species from India, (2) marking the first recorded presence of the genera *Sonoita* and *Spartaeus* in the country; (3) clarify the taxonomic identity of *Marpissa gangasagarensis* Majumder, 2005, based on the holotype housed at the Zoological Survey of India, Kolkata; and (4) present new distributional data for *Brettus anchorum* Wanless, 1979, *Portia albimana* (Simon, 1900), *Portia labiata* (Thorell, 1887) and *Sonoita* cf. *lightfooti* G.W. Peckham & E.G. Peckham, 1903.

## Material and methods

Specimens were preserved in 70% ethanol and studied under a Leica S APO stereo microscope. Photomicrography was performed using a Leica MC190 HD camera attached to the stereo microscope and images were processed with the Leica Application Suite (LAS) ver. 4.13. All measurements are given in millimetres (mm). Lengths of leg segments are given as follows: total [femur, patella, tibia, metatarsus (except for pedipalp), tarsus]. The description of colouration is based on alcohol-preserved specimens. The paratype female of *Spartaeus karigiri* Caleb, Sudhin, Sen & Kadam sp. nov. was examined and imaged under a Leica M205 A stereozoom microscope attached with a Flexacam C3 camera and processed using extended focus montage LAS X software. The studied specimens are housed in the National Zoological Collections of the Zoological Survey of India: The Headquarters, Kolkata (NZN-ZSI); Southern Regional Centre, Chennai (ZSI-SRC), and the Research collections of the National Centre for Biological Sciences, Bengaluru (NCBS).

### Abbreviations (used in the text and figures)

AER = anterior eye row  
ALE = anterior lateral eye  
AME = anterior median eye  
CD = copulatory duct

|     |   |                               |
|-----|---|-------------------------------|
| CO  | = | copulatory opening            |
| DTA | = | dorsal tibial apophysis       |
| E   | = | embolus                       |
| EFL | = | eye field length              |
| FD  | = | fertilization duct            |
| ITA | = | intermediate tibial apophysis |
| PER | = | posterior eye row             |
| PLE | = | posterior lateral eye         |
| PME | = | posterior median eye          |
| RTA | = | retrolateral tibial apophysis |
| S   | = | spermatheca                   |
| TD  | = | tegular depression            |
| VTA | = | ventral tibial apophysis      |

### Institutional abbreviations

|         |   |  |
|---------|---|--|
| NCBS    | = | Research collections of the National Centre for Biological Sciences, Bengaluru                 |
| NZC-ZSI | = | National Zoological Collections, Zoological Survey of India, Kolkata                           |
| ZSI-SRC | = | National Zoological Collections, Zoological Survey of India, Southern Regional Centre, Chennai |

## Results

### *Taxonomy*

Class Arachnida Lamarck, 1801  
 Order Araneae Clerck, 1757  
 Family Salticidae Blackwall, 1841  
 Subfamily Spartaeinae Wanless, 1984  
 Tribe Spartaeini Wanless, 1984  
 Subtribe Holcolaetina Simon, 1901  
 Genus *Sonoita* G.W. Peckham & E.G. Peckham, 1903

*Sonoita* cf. *lightfooti* G.W. Peckham & E.G. Peckham, 1903  
 Figs 1–3, 12

### Diagnosis

See Wanless (1985) and Wesolowska & Russell-Smith (2022).

### Material examined

INDIA – **Karnataka** • 1 ♂; Tumkuru, Halekote near Deverayandurga Hill; 13.3845° N, 77.2070° E; 871 m a.s.l.; 10 Jul. 2023; B.G. Nisha leg.; ZSI-SRC-I/SP 47 • 1 ♂; Bengaluru, National Centre for Biological Sciences campus; 13.0721° N, 77.5802° E; 952 m a.s.l.; 26 Jul. 2016; Rajesh Sanap leg.; NCBS-AA-8992.

### Description

**Male** (ZSI-SRC-I/SP 47; Figs 1–3)

GENERAL MORPHOLOGY. Carapace brown, clothed with fine pale hairs (Figs 1A, 2A). Eyes surrounded by black regions; anterior eyes surrounded by white orbital setae (Figs 1B–C, 2C). Chelicerae yellow-brown. Sternum oval, yellow-brown; labium and maxillae brown, apical portion of labium and inner portion of maxillae paler (Fig. 2B). Clypeus brown (Fig. 2C). Abdomen oval, brown, mid-dorsal region yellow-brown; posterior half with pairs of lateral white setae; posterior region with chevron-shaped

brown markings (Fig. 2A); venter brown with light brown spots arranged longitudinally (Fig. 2B). Spinnerets yellow-brown. Leg I with leaf-like setae arranged on ventral region of femora, patellae and tibiae, those under tibiae dense and longer than those under femora, metatarsi I and tarsi I covered with white setae; legs II–IV yellow-brown with brown annulations; metatarsi and tarsi II–IV yellow, covered with white hairs (Fig. 2A–D).

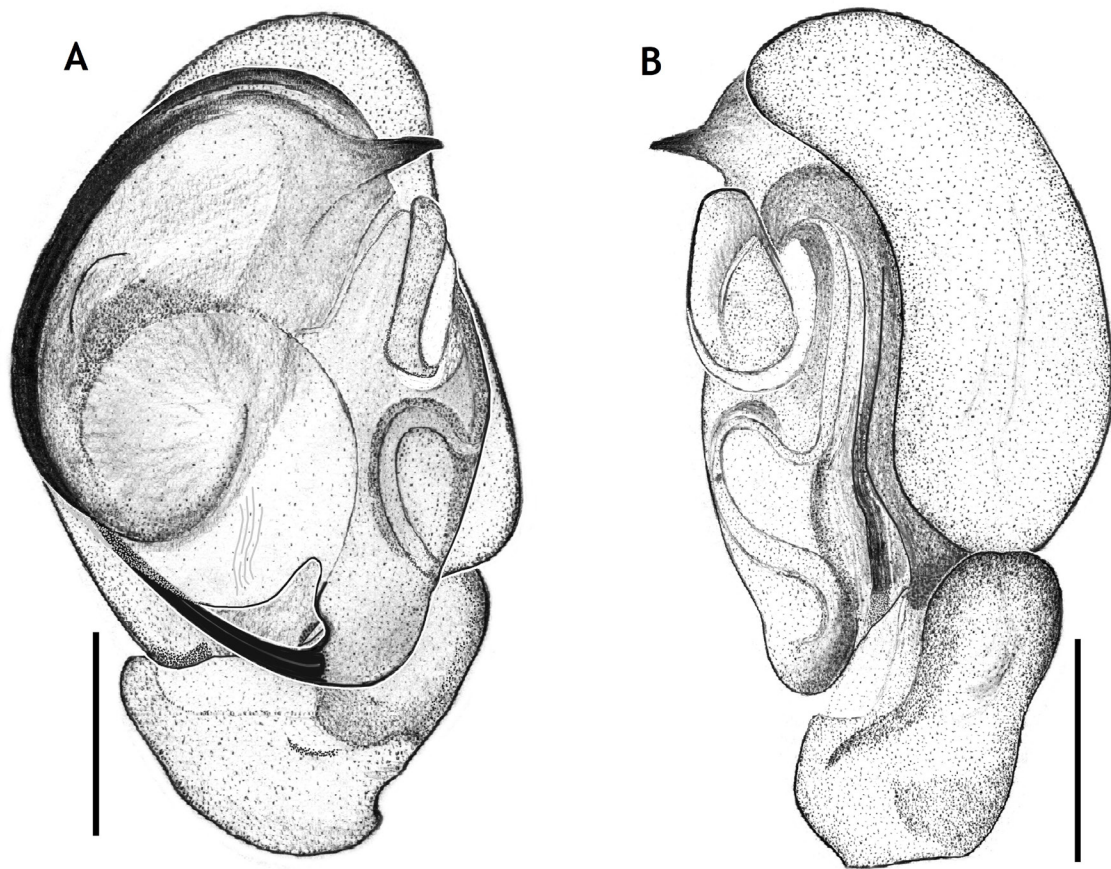
MEASUREMENTS. Body length 3.12; carapace length 1.45, width 1.26; abdomen length 1.67, width 1.05. Eye measurements and inter-distances: AME 0.29, ALE 0.15, PME 0.11, PLE 0.16. AER 0.98, EFL 0.83, PER 1.06, AME–AME 0.03, AME–ALE 0.04, ALE–ALE 0.70, ALE–PLE 0.59, PLE–PLE 0.87, PME–PME 0.79, PME–PLE 0.31. Clypeus height 0.03. Length of chelicera 0.31. Measurement of legs: leg I 3.10 [0.96, 0.52, 0.73, 0.53, 0.36], II 2.76 [0.86, 0.46, 0.58, 0.50, 0.36], III 2.78 [0.94, 0.38, 0.57, 0.54, 0.35], IV 3.63 [1.07, 0.53, 0.76, 0.86, 0.41]. Leg formula: 4132.



**Fig. 1.** *Sonoita* cf. *lightfooti* G.W. Peckham & E.G. Peckham, 1903, ♂ (ZSI-SRC-I/SP 47). **A.** Dorsal view. **B–C.** Front view. Photo credits: B.G. Nisha.



**Fig. 2.** *Sonoita cf. lightfooti* G.W. Peckham & E.G. Peckham, 1903, ♂ (ZSI-SRC-I/SP 47). **A.** Habitus, dorsal view. **B.** Same, ventral view. **C.** Same, front view. **D.** Left leg I, prolateral view. **E.** Left palp, dorsal view. **F.** Same, prolateral view. **G.** Same, ventral view. **H.** Same, retrolateral view. Scale bars: A–B = 1 mm; C–D = 0.5 mm; E–H = 0.2 mm.



**Fig. 3.** *Sonoita* cf. *lightfooti* G.W. Peckham & E.G. Peckham, 1903, ♂ (ZSI-SRC-I/SP 47). **A.** Left palp, ventral view. **B.** Same, retrolateral view. Scale bars = 0.2 mm.

COPULATORY ORGAN (Figs 2E–H, 3A–B). Palp yellow-brown; tibia and cymbium clothed with white hairs; apical portion of cymbium with black hairs; RTA flattened, spatula-like; bulbus with a median apophysis along retrolateral side; embolus long and slender, originates from 6 o’clock position, runs along prolateral side with tip hidden behind functional conductor (Figs 2E–H, 3A–B).

### Distribution

Africa (WSC 2025), India (Karnataka) (Fig. 12).

Subtribe *Spartaeina* Wanless, 1984

Genus *Spartaeus* Thorell, 1891

*Spartaeus karigiri* Caleb, Sudhin, Sen & Kadam sp. nov.

[urn:lsid:zoobank.org:act:11601ECE-324C-47A0-8039-7E102C9A8C9C](https://zoobank.org/act:11601ECE-324C-47A0-8039-7E102C9A8C9C)

Figs 4–7, 12

### Diagnosis

The male copulatory organ of *S. karigiri* sp. nov., is most similar to that of *S. triapiculus* Yang, W. Liu, P. Liu & Peng, 2017, from which it can be distinguished by the following combination of characters: tibia with four apophyses including one dorsal apophysis (three in *S. triapiculus*, and without dorsal apophysis); embolus with broad base and pointed tip in ventral view (narrow, slender and relatively

longer in *S. triapiculus*) (cf. Figs 5D–F, 7A–C with Yang *et al.* 2017: figs 9b–c, 10a–b). The female genitalia are most similar to those of *S. abramovi* Logunov & Azarkina, 2008 from which they can be easily distinguished by the laterally aligned copulatory openings (anteriorly aligned in *S. abramovi*); spermathecae globular and separated (ovoid and contiguous in *S. abramovi*) (cf. Figs 5D–F, 7D–E with Logunov & Azarkina 2008: figs 55–56).

### Etymology

The specific epithet ‘*karigiri*’, a noun in apposition, is derived from the popular name of Devarayanadurga Hill, near which the species was discovered. *Karigiri* translates to “Elephant Hill”, a reference to the hill’s resemblance to an elephant when viewed from the eastern side.

### Type material

#### Holotype

INDIA • ♂; Karnataka, Tumkuru, Halekote, near Deverayandurga Hill; 13.3866° N, 77.2081° E; 837 m a.s.l.; 2 Apr. 2023; B.G. Nisha leg.; ZSI-SRC-I/SP 46.

#### Paratypes

INDIA – **Karnataka** • 1 ♀; Tumkuru, Halekote, near Deverayandurga Hill; 13.3841° N, 77.2067° E; 864 m a.s.l.; 6 Jul. 2023; B.G. Nisha leg.; NZC-ZSI-9194/18. – **Tamil Nadu** • 1 ♂; Villupuram District, Pasumalaithangal Village; 12.225278° N, 79.352778° E; 127 m a.s.l.; 17 Sep. 2023; K. Gautam leg.; collected from tree bark; NCBS-AA-9041 • 1 ♀; same data as for preceding; collected from a boulder; NCBS-AA-9042.

### Description

**Male** (holotype, ZSI-SRC-I/SP 46; Figs 4A–C, 5A–E, 7A–C)

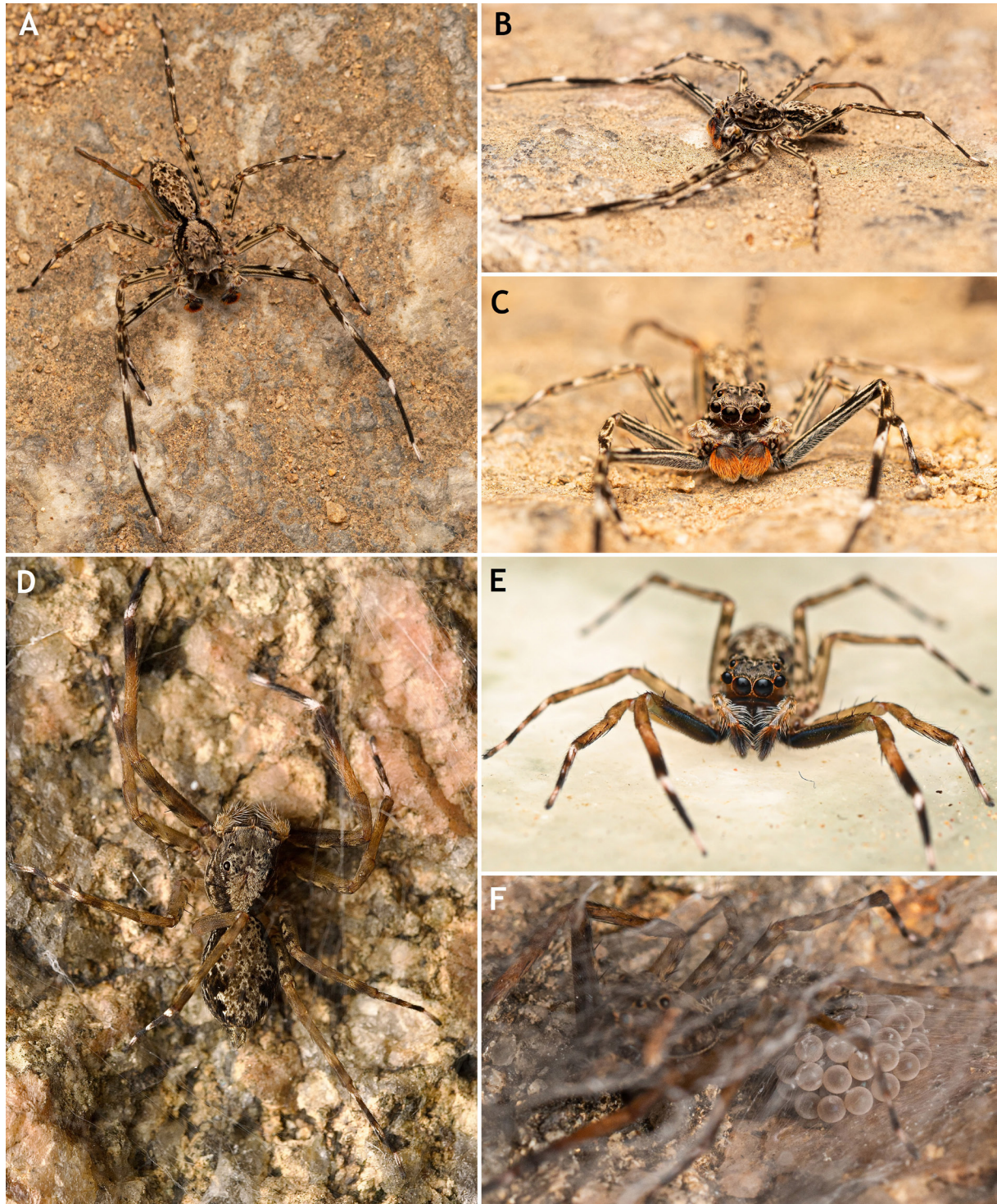
**GENERAL MORPHOLOGY.** Carapace brown, thoracic region yellow; outer carapace rim lined by thin white setae; a short strip of lateral white setae present below PLEs (Figs 4A, 5A). Eyes surrounded by black regions; anterior eyes surrounded by white orbital setae (Fig. 5B). Clypeus yellow-brown, cheek-region below ALEs covered with white band which runs behind until posterior thoracic region (Fig. 5B). Chelicerae brown with 4 large teeth on promargin and 8 small teeth on retromargin (Fig. 5C). Sternum oval, yellow-brown; labium and maxillae brown, apical portion of labium and inner portion of maxillae paler. Abdomen oval, brown, dorsally with yellowish and brown markings; posterior portion with three distinct brown spots (Fig. 5A); lateral sides brown; venter brown with light brown spots arranged longitudinally. Spinnerets yellow-brown. Legs yellow with brown patches and white hairs; femora I–IV with longitudinal prolateral and ventral brown stripes; all tarsi yellow (Fig. 5A).

**MEASUREMENTS.** Body length 6.49; carapace length 3.30, width 2.83; abdomen length 3.19, width 1.93. Eye measurements and inter-distances: AME 0.76, ALE 0.45, PME 0.28, PLE 0.44, AER 2.36, EFL 1.66, PER 2.03, AME–AME 0.03, AME–ALE 0.03, ALE–ALE 1.52, ALE–PLE 1.08, PLE–PLE 1.50, PME–PME 1.32, PME–PLE 0.48. Clypeus height 0.10. Length of chelicera 1.28. Measurement of legs: leg I 17.23 [4.66, 2.18, 5.43, 3.86, 1.10], II 10.88 [3.27, 1.55, 2.76, 2.45, 0.85], III 10.70 [3.11, 1.31, 2.68, 2.71, 0.89], IV 9.58 [2.69, 1.01, 2.33, 2.56, 0.99]. Leg formula 1234.

**COPULATORY ORGAN** (Figs 5D–F, 7A–C). Palp yellow; tibia with four apophyses: ventral tibial apophysis finger-like and curved, directed apically in ventral view; intermediate tibial apophysis triangular, directed retrolaterally in ventral view; retrolateral tibial apophysis long, broad basally and tapering toward tip, dorsal margin with a flange in retrolateral view; dorsal tibial apophysis short, triangular, directed retrolaterally in dorsal view; tegulum oval, tegular apophysis triangular in ventral view; embolus originating from 11 o’clock position, broad basally and tapering toward tip (Figs 5D–F, 7A–C).

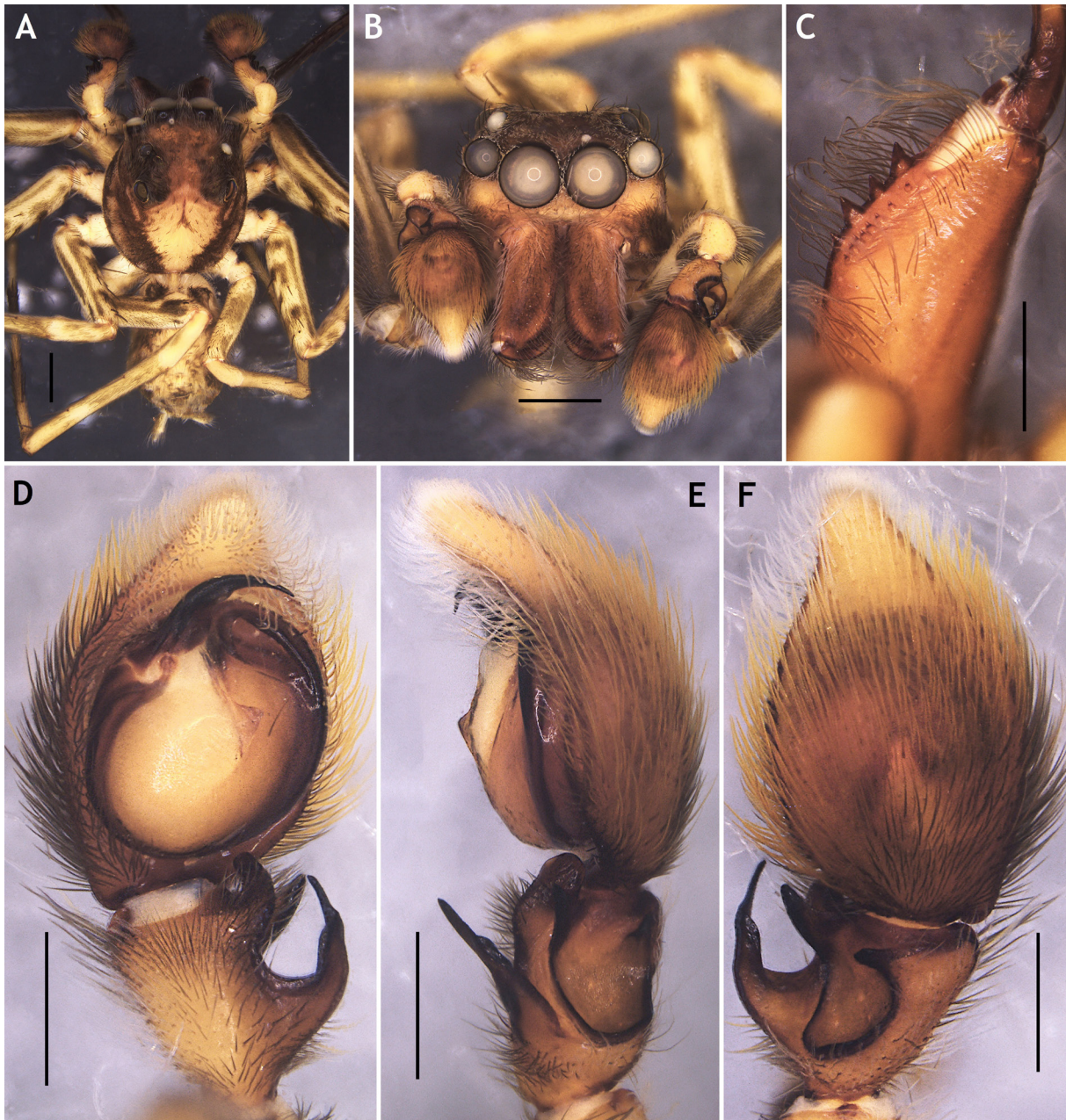
**Female** (paratype, NZC-ZSI-9194/18; Figs 6A–F, 7D–E)

GENERAL MORPHOLOGY. In all aspects as the male except the following: lighter than male in colour; femora I–IV without longitudinal brown stripes (Fig. 6A–C).

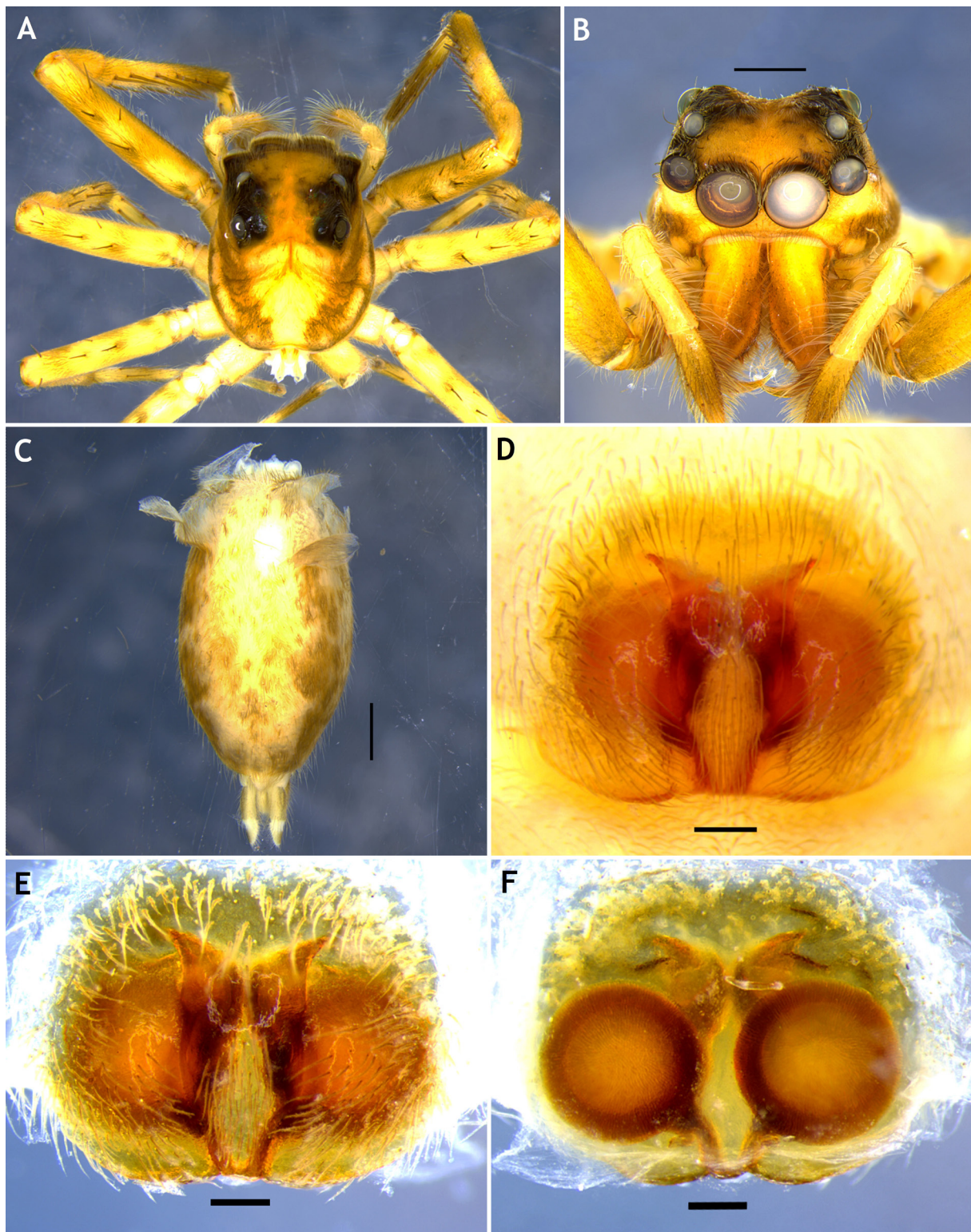


**Fig. 4.** *Spartaeus karigiri* Caleb, Sudhin, Sen & Kadam sp. nov. A–C. Holotype, ♂ (ZSI-SRC-I/SP 46). D–E. Female (NZC-ZSI-9194/18). F. Female with egg clutch was not collected. A, D. Dorsal views. B, F. Lateral views. C, E. Front views. Photo credits: B.G. Nisha (B–C, E–F); Chinmay Maliye (A, D).

MEASUREMENTS. Body length 10.45; carapace length 4.15, width 3.43; abdomen length 5.30, width 3.10. AER 2.83, EFL 1.90, PER 2.48. Eye measurements and inter-distances: AME 0.89, ALE 0.57, PME 0.33, PLE 0.51, AME–AME 0.02, AME–ALE 0.03, ALE–ALE 1.88, ALE–PLE 1.23, PLE–PLE 1.78, PME–PME 1.69, PME–PLE 0.60. Clypeus height 0.22. Length of chelicera 1.92. Measurement of legs: leg I 14.12 [4.32, 1.79, 4.11, 2.70, 1.20], II 11.25 [3.41, 1.36, 2.88, 2.40, 1.20], III 11.62 [3.33, 1.24, 2.81, 2.91, 1.33], IV 14.65 [3.90, 1.39, 3.82, 4.19, 1.35]. Leg formula 4132.

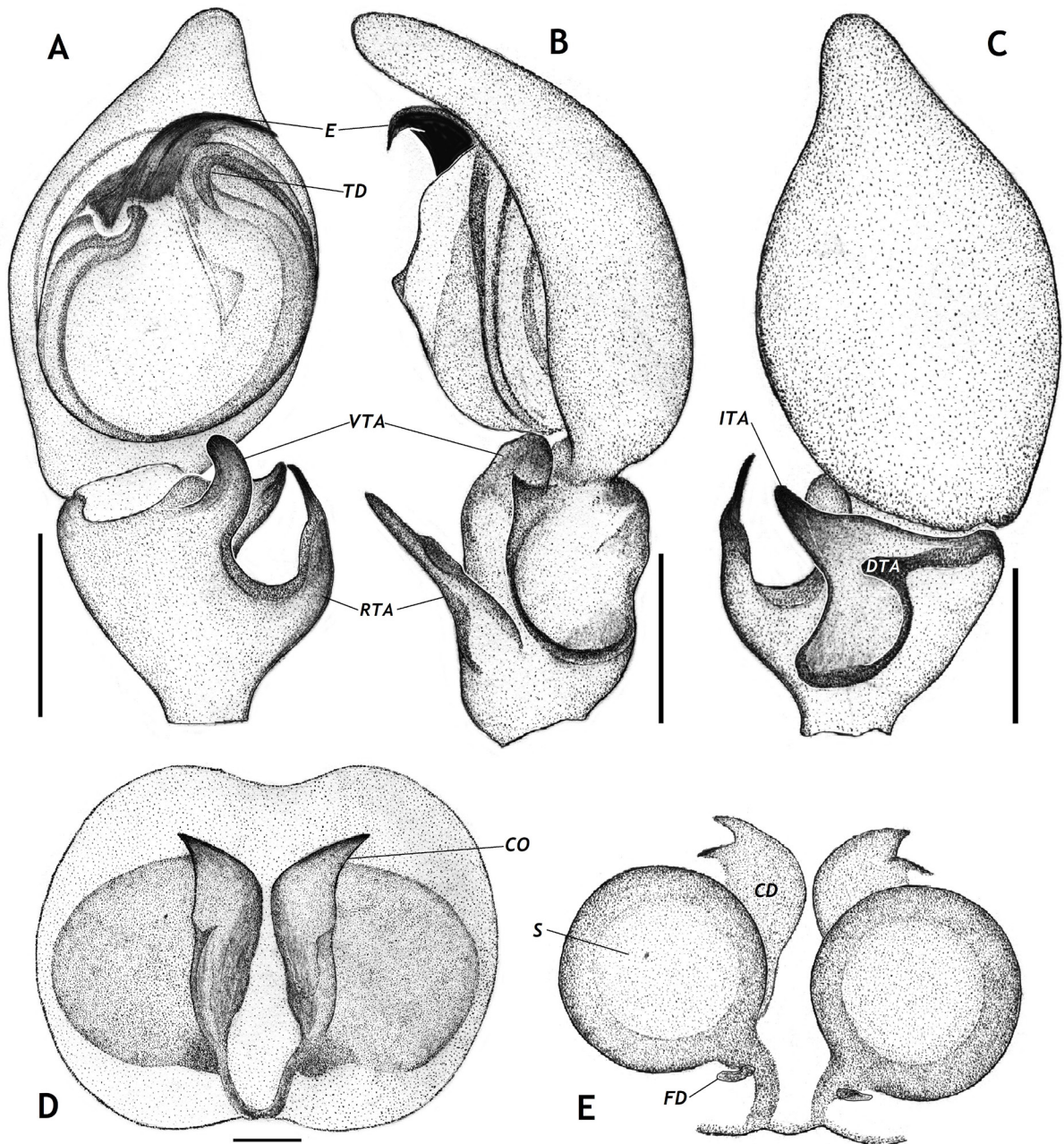


**Fig. 5.** *Spartaeus karigiri* Caleb, Sudhin, Sen & Kadam sp. nov., holotype, ♂ (ZSI-SRC-I/SP 46). **A.** Habitus, dorsal view. **B.** Same, front view. **C.** Left chelicera, ventral view. **D.** Left palp, ventral view. **E.** Same, retrolateral view. **F.** Same, dorsal view. Scale bars: A–B = 1 mm; C–F = 0.5 mm.



**Fig. 6.** *Spartaeus karigiri* sp. nov. Caleb, Sudhin, Sen & Kadam, paratype, ♀ (NZC-ZSI-9194/18). **A.** Carapace, dorsal view. **B.** Front view. **C.** Abdomen, dorsal view. **D.** Intact epigyne, ventral view. **E.** Dissected and cleared epigyne, ventral view. **F.** Vulva, dorsal view. Scale bars: A–C = 1 mm; D–F = 0.2 mm.

COPULATORY ORGAN. Epigyne with copulatory openings placed anteriorly and aligned laterally; copulatory ducts short and broad, enter spermathecae posteriorly; spermathecae globular; fertilization ducts short, located posteriorly (Figs 6D–F, 7D–E).



**Fig. 7.** *Spartaeus karigiri* Caleb, Sudhin, Sen & Kadam sp. nov. **A–C.** Holotype, ♂ (ZSI-SRC-I/SP 46). **D–E.** Paratype, ♀ (NZN-ZSI-9194/18). **A.** Left palp, ventral view. **B.** Same, retrolateral view. **C.** Same, dorsal view. **D.** Epigyne, ventral view. **E.** Vulva, dorsal view. Scale bars: A–C = 0.5 mm; D–E = 0.2 mm. Abbreviations: see Material and methods.

### Natural history

The species is found on boulders, crevices and walls of old structures (Fig. 4A–F). It forms a simple silk retreat of thin layers of silk on bare rock as shelter. It was observed feeding on crickets in its natural habitat and primarily fed on moths in captivity.

### Distribution

India (Karnataka and Tamil Nadu) (Fig. 12).

### New synonymy

*Phaeacius fimbriatus* Simon, 1900

Figs 8, 12

*Phaeacius fimbriatus* Simon, 1900: 32 (D♀).

*Marpissa gangasagarensis* Majumder, 2005: 45, figs 19–23 (holotype at the Zoological Survey of India, Kolkata, examined) **syn. nov.**

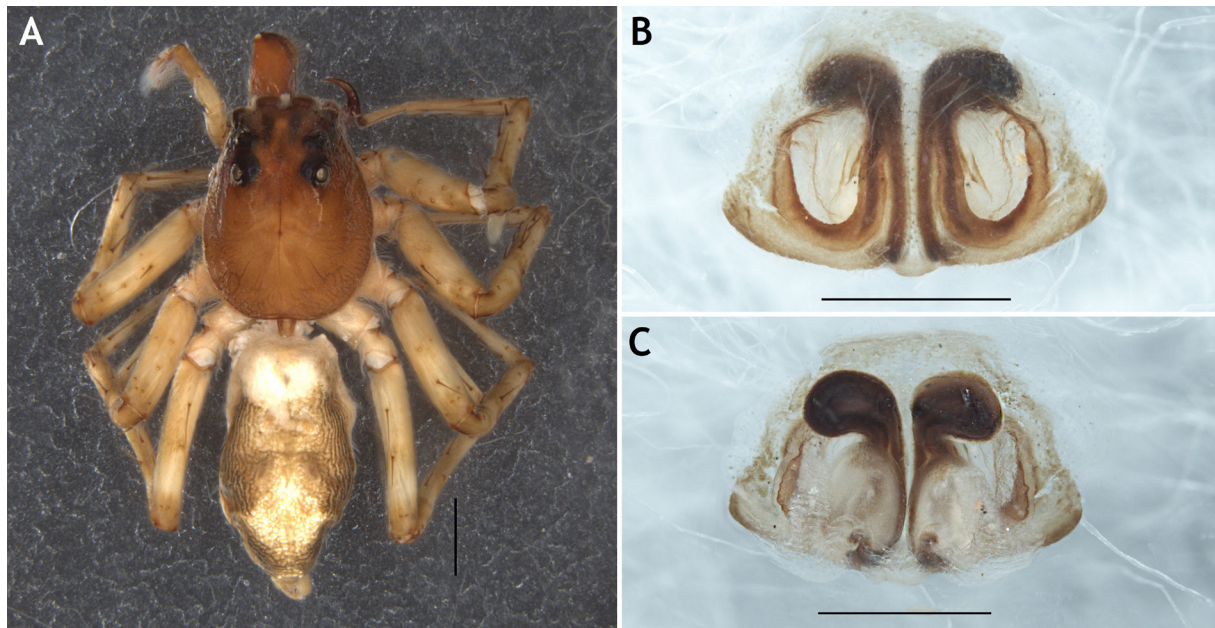
*Phaeacius fimbriatus* – Wanless 1981: 202, figs 4a–h, 5b (♀, D♂). — Roy *et al.* 2016: 27, figs 23a–e, 26c, 28e (♀).

For a complete list of taxonomic references refer the WSC (2025).

### Type material

#### Holotype

INDIA • ♀ (holotype of *Marpissa gangasagarensis*); West Bengal, South 24 Parganas Dist., Gangasagar Island, near Kapilmuni Ashram; 21.6375° N, 88.0755° E; 5 m a.s.l.; 1 Jan. 1996; S.C. Majumder leg.; NZC-ZSI-5569/18.



**Fig. 8.** *Marpissa gangasagarensis* Majumder, 2005, holotype, ♀ (NZC-ZSI-5569/18) (= *Phaeacius fimbriatus* Simon, 1900 **syn. nov.**) from West Bengal. **A.** Habitus, dorsal view. **B.** Epigyne, ventral view. **C.** Vulva, dorsal view. Scale bars: A = 2 mm; B–C = 1 mm.

**Remarks**

This species was described based on a single female collected from Gangasagar Island, near Kapilmuni Ashram, West Bengal. The original description is too short and the illustrations are sketchy, thus not allowing recognition of the species. However, examination of the holotype kept in the Zoological Survey of India, Kolkata, allowed clarification on the taxonomic status of this species. Detailed examination of the holotype revealed that it is identical to *Phaeacius fimbriatus*. The epigynal structure with large oval windows and a broad median septum; pear-shaped spermathecae placed close to each other along the posterior margin; anterior portion with sclerotized loops of copulatory ducts and lateral membranous pockets with wrinkled appearance unambiguously match with *P. fimbriatus* (cf. Fig. 8A–C with Wanless 1981: fig. 4d). *Marpissa gangasagarensis* is therefore treated as a junior synonym of *P. fimbriatus*.

**Distribution**

India (West Bengal, Kerala) (Roy *et al.* 2016; present data), Nepal, Indonesia (Java) (WSC 2025) (Fig. 12).

***Distributional records***

Genus *Brettus* Thorell, 1895

***Brettus anchorum*** Wanless, 1979

Fig. 12

*Brettus anchorum* Wanless, 1979: 188, figs 2f, 3b; 4c–d (D♀).

*Brettus anchorum* – Wanless 1984: 181, figs 23a–h (D♂).

For a complete list of taxonomic references refer to the WSC (2025).

**Material examined**

INDIA • 1 ♀; Himachal Pradesh, Simla; 1500 feet (= 457 m a.s.l.); May 1913; Lord Carmichael leg.; NZC-ZSI-6683/18.

**Distribution**

India (Himachal Pradesh, Tamil Nadu, West Bengal) (Caleb 2019; present study), Nepal, China (WSC 2025) (Fig. 12).

***Brettus cingulatus*** Thorell, 1895

Figs 9, 12

*Brettus cingulatus* Thorell, 1895: 355 (D♂).

*Brettus cingulatus* – Wanless 1979: 185, figs 1a, c, e, g, 2a–b (♂). — Ahmed *et al.* 2017: 3, figs 2.1–4, 3.1–7, 4.1–8, 5.1–11, 6.1–11, 8.1–4 (♂).

For a complete list of taxonomic references refer to the WSC (2025).

**Material examined**

INDIA – **Karnataka** • 1 ♂; Bengaluru, National Centre for Biological Sciences campus; 13.0711° N, 77.5805° E; 932 m, a.s.l.; 18 May 2015; John Caleb leg.; NCBS-AR-140. – **West Bengal** • 1 ♂, 1 ♀; North 24 Parganas, Palta; 22.7858° N, 88.3711° E; 10 m a.s.l.; 21 Nov. 2013; Bijan Biswas leg.; NZC-



**Fig. 9.** *Brettus cingulatus* Thorell, 1895 (NZC-ZSI-9195/18: male (A–D) and female specimen (E–I) from West Bengal). A. Male habitus, dorsal view. B. Same, ventral view. C. Male palp, ventral view. D. Same, retrolateral view. E. Habitus, dorsal view. F. Same, ventral view. G. Intact epigyne, ventral view. H. Dissected and cleared epigyne, ventral view. I. Vulva, dorsal view. Scale bars: A–B, E–F = 1 mm; C–D, G–I = 0.2 mm.

ZSI-6662/18 • 1 ♂, 1 ♀; Bolpur, Khandagram; 23.707778° N, 87.485° E; 65 m a.s.l.; 26 Jul. 2023; Arghya Ghosh leg.; NZC-ZSI-9195/18.

### Distribution

India (Assam, Karnataka, Kerala, Maharashtra, Tamil Nadu and West Bengal) (Caleb 2019), Sri Lanka, China, Vietnam, Myanmar, Thailand, Malaysia, Indonesia (Sumatra) (WSC 2025) (Fig. 12).

Genus *Phaeacius* Simon, 1900

*Phaeacius lancearius* (Thorell, 1895)

Figs 10, 12

*Cocalus lancearius* Thorell, 1895: 357 (D♂).

*Phaeacius lancearius* – Wanless 1981: 205, figs 1, 2a–f, 5a, c–f (♂). — Malamel 2018: 115, figs 2e–f, 6g–i (♂).

For a complete list of taxonomic references refer to the WSC (2025).

### Material examined

INDIA • 1 ♂; West Bengal, South 24 Parganas Dist., beside Haripota playground, Nalban ii; 22.5072° N, 88.4772° E; 0.2 m a.s.l.; 26 Apr. 2019; K. Valarmathi and Party leg.; NZC-ZSI-6876/18.

### Distribution

India (Kerala, West Bengal) (Wanless 1981; Wijesinghe 1991; Malamel 2018; Caleb 2020) and Myanmar (WSC 2025) (Fig. 12).

Genus *Portia* Karsch, 1878

*Portia albimana* (Simon, 1900)

Figs 11–12

*Linus albimanus* Simon, 1900: 33 (D♂).

*Portia albimana* – Wanless 1978: 107, fig. 12a–d (♂). — Murphy & Murphy 1983: 40, figs 4–5 (D♀). — Ahmed *et al.* 2015: 1, figs 7.1–4 (♂).

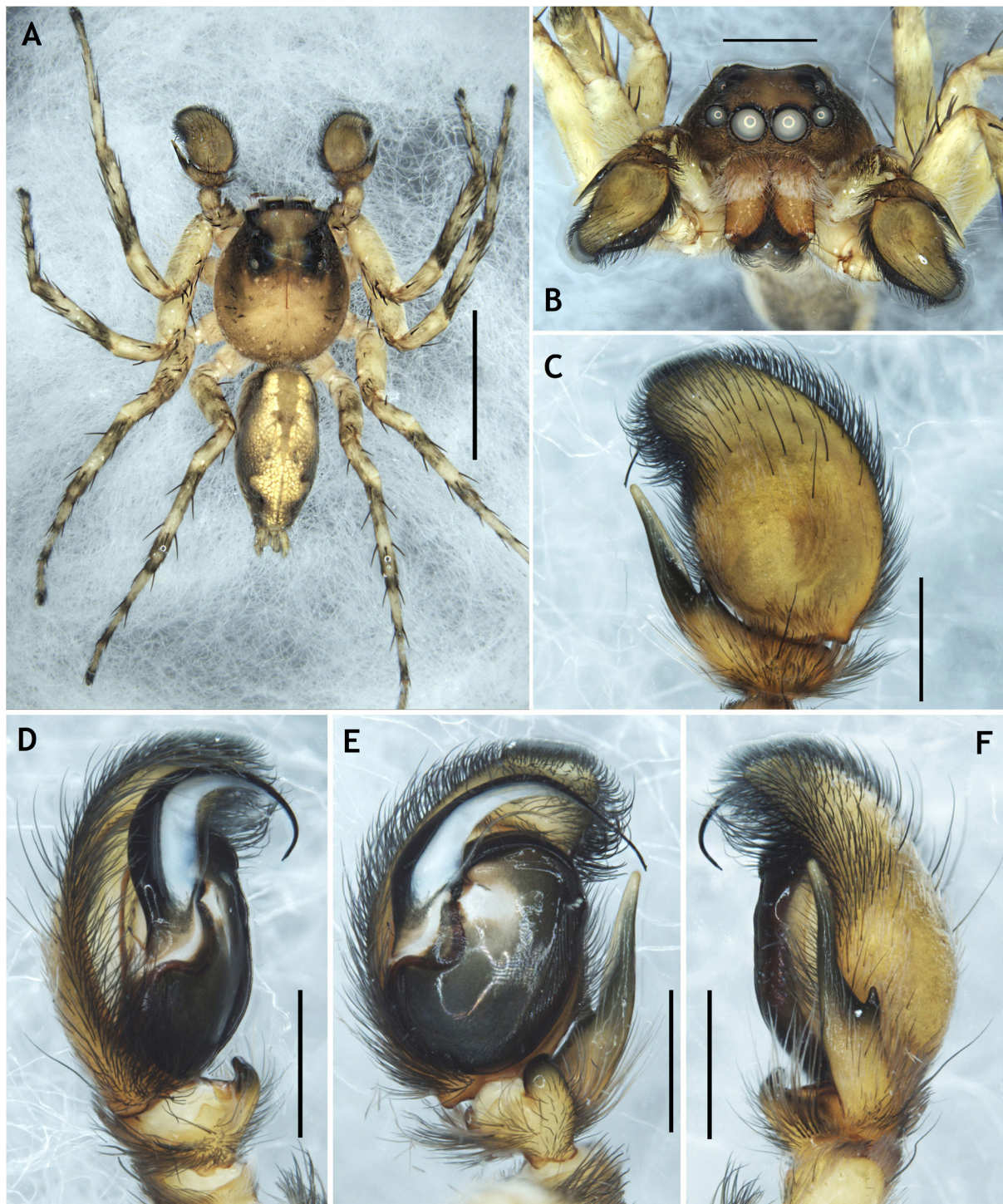
For a complete list of taxonomic references refer to the WSC (2025).

### Material examined

INDIA – **Karnataka** • 1 ♂; Bengaluru, National Centre for Biological Sciences campus; 13.0711° N, 77.5805° E; 932 m a.s.l.; 9 May 2015; collector unknown; NCBS-AR-102. – **West Bengal** • 1 ♀; Birbhum, no other data given; NZC-ZSI-6684/18 • 1 ♀; Darjeeling, Pashok; Jun. 1916; L.C. Hartless leg.; NZC-ZSI-6685/18.

### Distribution

Pakistan, India (Karnataka, Maharashtra, Tamil Nadu, Uttarakhand and West Bengal) (Murphy & Murphy 1983; Caleb 2019; present study) to Vietnam (WSC 2025) (Fig. 12).



**Fig. 10.** *Phaeacius lancearius* (Thorell, 1895), ♂ (NZC-ZSI-6876/18) from West Bengal. **A.** Habitus, dorsal view. **B.** Frontal view. **C.** Male palp, dorsal view. **D.** Same, prolateral view. **E.** Same, ventral view. **F.** Same, retrolateral view. Scale bars: A = 5 mm; B = 2 mm; C–F = 1 mm.

*Portia labiata* (Thorell, 1887)

Fig. 12

*Linus labiatus* Thorell, 1887: 354 (D♀).

*Portia labiata* – Wanless 1978: 103, figs 10a–c, 11a–c (♂♀). — Murphy & Murphy 1983: 43, figs 8, 11, 14, 17, 19 (♂).

For a complete list of taxonomic references refer to the WSC (2025).

**Material examined**

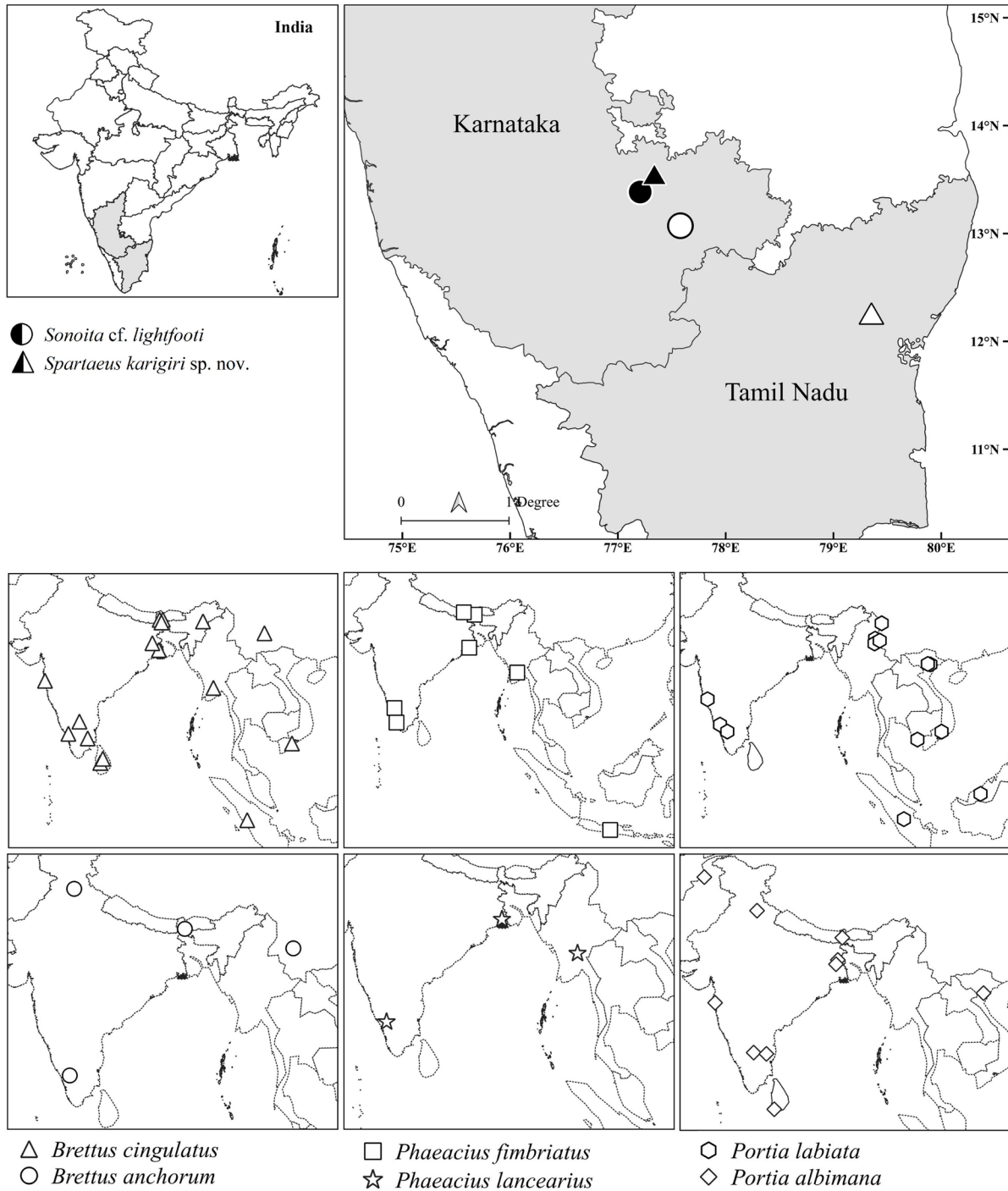
INDIA • 1 ♂; Maharashtra, Sindhudurg, Kudal, Shivapur, Manohargad; 16.0508° N, 73.9705° E; 657 m a.s.l.; 3 Jul. 2021; K. Gautam and J. Sameer leg.; from *Ficus* tree, by hand; NCBS-AA-9043.



**Fig. 11.** *Portia albimana* (Simon, 1900), ♂ (NCBS-AR-102) from Karnataka. **A.** Habitus, dorsal view. **B.** Same, lateral view. **C.** Front view. **D.** Male palp, retrolateral view. **E.** Same, ventral view. Scale bars: A–C = 1 mm; D–E = 0.1 mm.

**Distribution**

India (Karnataka, Maharashtra) (Wanless 1978; Murphy & Murphy 1983; present study), Sri Lanka to China, Thailand, Vietnam, Philippines (WSC 2025) (Fig. 12).



**Fig. 12.** Distribution map of the species treated in this study.

## Discussion

Recent exploratory surveys across India have significantly expanded the known diversity of Salticidae, leading to the discovery of several new genera and species. Among these are three genera from the Old World subfamily Spartaeinae Wanless, 1984 – *Gelotia* Thorell, 1890, *Mega eupoa* Lin & Li, 2020, and *Sparbambus* Zhang, Woon & Li, 2006 – recently added to India’s salticid spider fauna (Caleb *et al.* 2018; Lin & Li 2020; Jose *et al.* 2023; Tripathi *et al.* 2023; Asima *et al.* 2024).

When describing *Mega eupoa*, Lin & Li (2020) did not explicitly state its position within Salticidae. However, they noted in the etymology that the genus name refers to its large size and evolutionary relationship to *Eupoa* Żabka, 1985, a member of the subfamily Eupoinae Maddison, 2015. Despite this, the authors compared *Mega eupoa* in their diagnosis to *Brettus* Thorell, 1895, a well-established member of Spartaeinae. Given this comparison, along with the fact that the Indian species *M. gravelyi* (Caleb, 2018) was originally placed within Spartaeinae (see comments in Caleb *et al.* 2018: 236), we consider *Mega eupoa* a member of Spartaeinae.

In India, Spartaeinae is represented by the tribe Spartaeini and its subtribe Spartaeina, comprising 13 species across eight genera – *Brettus* Thorell, 1895 (2 species), *Cyrba* Simon, 1876 (1 species), *Gelotia* Thorell, 1890 (1 species), *Mega eupoa* Lin & Li, 2020 (1 species), *Neobrettus* Wanless, 1984 (1 species), *Phaeacius* Simon, 1900 (2 species), *Portia* Karsch, 1878 (4 species), and *Sparbambus* Zhang, Woon & Li, 2006 (1 species) (Caleb & Sankaran 2025). The current study also reports the addition of *Spartaeus* to India’s spider fauna. Furthermore, the discovery of a species of *Sonoita* extends the range of the subtribe Holcolaelina to India, which was previously known only from Africa. The identification of the male *Sonoita* from India remains uncertain due to its biogeographical separation from African populations and minor morphological variations – particularly in the shape and orientation of the functional conductor of the male palp – when compared to *Sonoita lightfooti*. These differences may perhaps represent geographical variation or could indicate an undescribed species. Given this uncertainty, we use cf. to denote close resemblance while acknowledging the need for further investigation. Additional specimens must be examined to clarify its taxonomic status. Notably, while some genera – such as *Aetius* O. Pickard-Cambridge, 1897, *Capheris* Simon, 1893, *Chrysilla* Thorell, 1887, *Tanzania* Koçak & Kemal, 2008, and *Tigidia* Simon, 1892 – contain both African and Indian species, none are known to have species occurring in both regions. If the Indian specimens are confirmed to be the African species, it may have been introduced through human-mediated dispersal. Future studies are required to determine whether this represents a natural range expansion or an introduced population, and if so, the possible mode of introduction. Overall, the subfamily Spartaeinae in India is now represented by one tribe, two subtribes, 10 genera, and 15 species.

These discoveries underscore the importance of continued exploratory surveys across India’s varied biogeographic zones. Despite their wide distribution across the Indian mainland, these genera have not yet been recorded from the Andaman and Nicobar Islands, indicating further unexplored areas for future research.

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