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Two newly recorded jumping spiders, *Neon ningyo* Ikeda, 1995 and *Sibianor nigriculus* (Logunov & Wesolowska, 1992) (Araneae: Salticidae) from Korea

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Neon ningyo Ikeda, 1995 and *Sibianor nigriculus* (Logunov and Wesolowska, 1992) of Salticidae are described from Korea with taxonomic illustrations.

Keywords: Araneae, Korea, *Neon ningyo*, Salticidae, *Sibianor nigriculus*

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Introduction

Neon ningyo Ikeda, 1995 and *Sibianor nigriculus* (Logunov and Wesolowska, 1992) of Salticidae are newly described to Korean spider fauna. So far, *Neon ningyo* is only known in China and Japan, and *Sibianor nigriculus* is distributed in Russia and Japan. Specimens were collected by pitfall traps around swamp and streamside, respectively. Present work described *Neon ningyo* Ikeda, 1995 and *Sibianor nigriculus* (Logunov and Wesolowska, 1992) of Salticidae from Korea with taxonomic illustrations.

Material and Methods

The external morphology of *Neon ningyo* and *Sibianor nigriculus* were examined and the taxonomic characters of each species were illustrated using a stereoscopic dissecting microscope (NIKON SMZ 745T). Measurements of each part of body were made with an ocular micrometer and are recorded in millimeters. Leg measurements are given as "leg number, total length (femur, patella + tibia, metatarsus, tarsus)." The following abbreviations are used in the description: ALE anterior lateral eye, AME anterior median eye, PLE posterior lateral eye and PME posterior median eye in eye area; d dorsal, v ventral surface, p prolateral surface and r retrolateral surface in leg spiniformation. Specimens examined in this study are lodged in the collection of National Institute of Biological Resources (NIBR), Incheon, Korea.

Systematic Accounts

Order Araneae Clerck, 1757
Family Salticidae
Genus *Neon* Simon, 1876

***Neon ningyo* Ikeda, 1995** 꼬마네온깡충거미 (신칭)
(Fig. 1A-F)
Neon ningyo Ikeda, 1995: 38, f. 34-44, Peng, Gong and Kim, 2000: 13, f. 1-4, Ono, Ikeda and Kono, 2009: 587, f. 329-336, Yin *et al*., 2012: 1416, f. 770a-d.

Measurements (in mm based on 1♂ from Baranmyeon, Hwaseong-si, Gyeonggi-do). Body length 1.76; Carapace 0.94 long, 0.66 wide; ALE-ALE 0.57, PLE-PLE 0.62, ALE-PLE 0.45, ALE-PME 0.23, AME diameter 0.19, ALE/AME 0.57, ALE/PLE 0.92, PME/PLE 0.27; Chelicera 0.19 long, 0.13 wide; Endite 0.14 long, 0.03 wide; Labium 0.07 long, 0.14 wide; Sternum 0.39 long, 0.20 wide; Legs I 1.48 (0.44, 0.64, 0.21, 0.19), II 1.06 (0.21, 0.46, 0.18, 0.21), III 1.19 (0.39, 0.37, 0.22, 0.21), IV 1.52 (0.47, 0.52, 0.29, 0.24); Abdomen 0.82 long, 0.60 wide.
Description. Male: Carapace pale yellowish brown, quadrangle, longer than wide, thoracic margin blackish

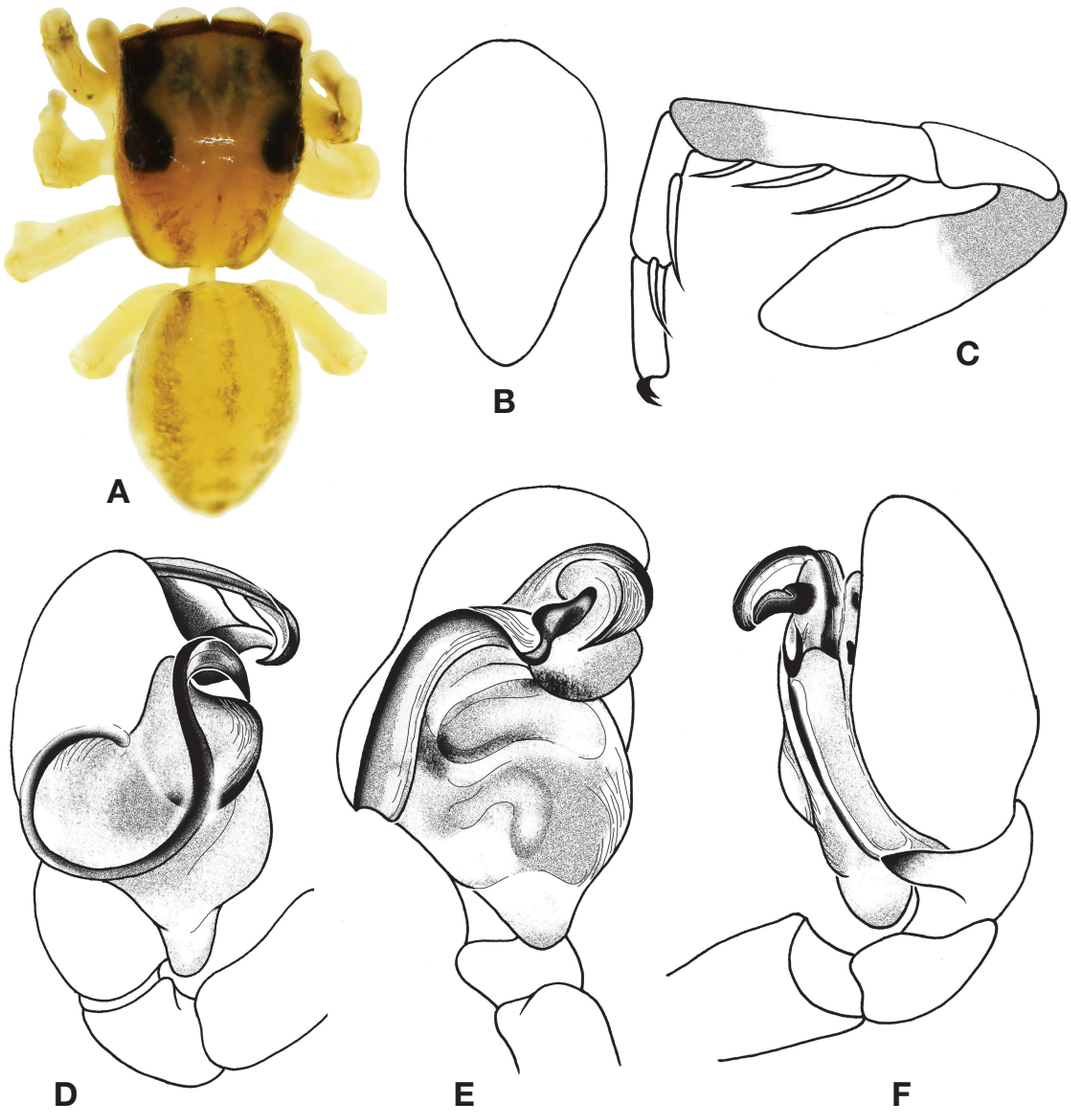

Fig. 1. *Neon ningyo* (A. male body; B. sternum; C. palp, prolateral view; D. ditto, inner view; E. ditto, retrolateral view; F. ditto, dorsal view; G. leg 1, retrolateral view.

brown. Ceivical furrow indistinct, radial furrow blackish brown, longitudinal fovea reddish brown, short needle shaped. Eye area surrounded with black, clothed with white hairs. Chelicerae infuscate, small and weak, no marginal tooth. Endite dull and pale yellowish brown. Labium dull and pale yellowish brown. Sternum yellowish white, converted pyriform (Fig. 1B). Legs yellowish white, short and robust, well developed, prolateral surface of femora, patellae, tibiae and metatarsi of leg I blackish brown, distal ends of femora and tibiae dark, leg spiniformation; I (tibia 2-2-2-0v, metatarsus (2-2v) (Fig. 1C), II (metatarsus 0-1p), III (metatarsus 0-2v, 0-1p), leg formula 4132. Abdomen ovoid, yellowish brown, longer than wide, dorsum with a pair of blackish brown longitudinal stripes laterally, blackish brown longitudinal stripes anteriomedianly and a few blackish brown indistinct transverse stripe posteriorly, venter yellowish white (Fig. 1A). Spinnerets yellowish white. Male palp with triangular retrolateral tibial apophysis with pointed tip. Embolus widely curved at base and coiled at apex, conductor dark yellowish brown (Fig. 1D-F).

Material examined. 1♂, 19-VI-1983, Yeongdong-gun, Chungcheongbuk-do (MS Im leg.); 3♂♂, 09-IV-2001, Baran-myeon, Hwaseong-si, Gyeonggi-do (ST Kim leg.); 1♂, 28-VII-2001, Baran-myeon, Hwaseong-si, Gyeong-

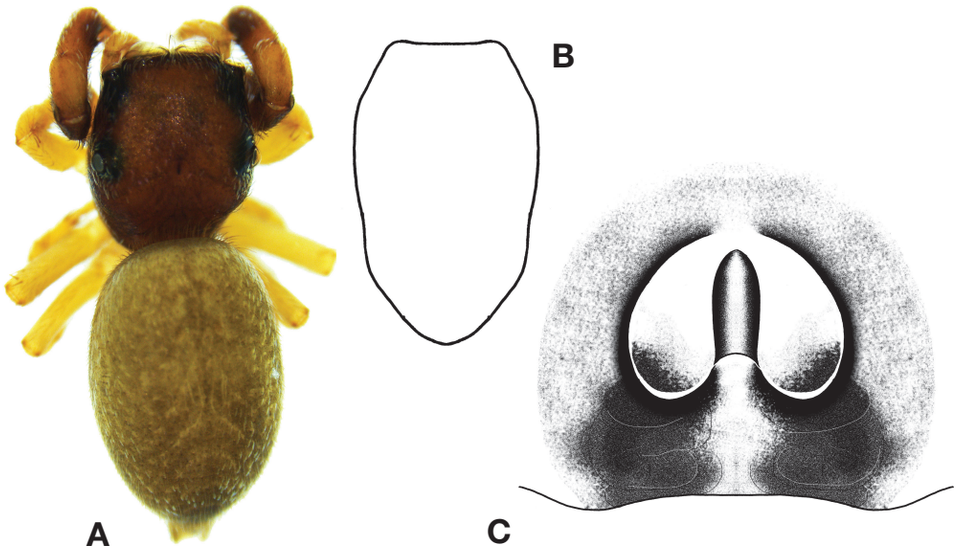

Fig. 2. *Sibianor nigriculus* (A. female body; B. sternum; C. epigynum).

gi-do (ST Kim leg.); 1♂, 19-VIII-2003, Girancheon, Andong-si, Gyeongsangbuk-do (ST Kim leg.).
Distribution. Korea (new record), China, Japan.
Remarks. This species was collected with pitfall traps around streamside.

Genus *Sibianor* Logunov, 2001
어리비아노깡충거미속 (개칭)

***Sibianor nigriculus* (Logunov and Wesolowska, 1992)**
흑갈머리깡충거미 (신칭) (Fig. 2)
Bianor aurocinctus Prószyński, 1979: 303, f. 15-16.
Harmochirus nigriculus Logunov and Wesolowska, 1992: 118, f. 4A-B, 5A-B, Logunov, Ikeda and Ono, 1997: 7, f. 11-17.
Sibianor nigriculus Logunov, 2000: 272, f. 272-273, 281-285, Ono, Ikeda and Kono, 2009: 583, f. 268-272.

Measurements (in mm). Body length 4.13; Carapace 1.75 long, 1.35 wide; ALE-ALE 1.30, PLE-PLE 1.49, ALE-PLE 1.00, ALE-PME 0.45, AME diameter 0.40, ALE/AME 0.58, ALE/PLE 1.22, PME/PLE 0.33; Chelicera 0.55 long, 0.30 wide; Endite 0.41 long, 0.29 wide; Labium 0.23 long, 0.34 wide; Sternum 0.68 long, 0.45 wide; Legs I 4.84 (1.14, 2.72, 0.56, 0.42), II 2.71 (0.89, 1.07, 0.43, 0.32), III 3.27 (1.16, 1.13, 0.56, 0.42), IV 3.44 (1.07, 1.20, 0.67, 0.50); Abdomen 2.38 long, 1.53 wide.
Description. Female: Carapace blackish brown, quadrangle, longer than wide, thoracic region surrounded with blackish brown rim and white hairs. Ceivical furrow and radial furrow indistinct, longitudinal fovea dark blackish brown, needle shaped. Eye area surrounded with black, clothed with white spatula-shaped hairs. Chelicerae pale blackish brown, one retromarginal tooth present. Endite pale blackish brown. Labium pale blackish brown, margin dark. Sternum blackish brown, long shield shaped (Fig. 2B). Legs well developed, legs II-IV yellowish brown with dense blackish brown hairs, leg I robust, blackish brown, leg spiniformation; I (femur 0-0-1p, tibia 1-2-2r, metatarsus 2-2v), II (femur 0-0-2p, tibia 0-1p, 1-2-0r, metatarsus 2-2v), III (femur 0-0-2p, tibia 0-2-0d, 0-1p, metatarsus 2-2d, 1-2-2r), IV (tibia 0-1-0r, metatarsus 0-2d, 0-2v), leg formula 1432. Abdomen long ovoid, dull grayish brown, longer than wide, lighter laterally, dorsum with dense blackish brown and white hairs, 3-4 indistinct chevrons posteriorly, venter dull grayish brown (Fig. 2A). Spinnerets dull grayish brown. Female epigynum with epigynal cone, copulatory opening situated anteriorly, spermathecae and copulatory ducts visible posteriorly (Fig. 2C).
Material examined. 1♀, 06-VII-1997, Eundae-ri, Yeoncheon-gun, Gyeonggi-do (ST Kim and JS Yoo leg.).
Distribution. Korea (new record), Russia, Japan.
Remarks. This species was collected with pitfall traps around swamp.

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