

[Short Communication]

A note on *Chrysso vesiculosa* (Simon 1895) (Araneae: Theridiidae)

Hajime Yoshida

Yamagata Prefectural Museum, Kajo-machi 1-8,
Yamagata-shi, 990-0826 Japan
E-mail: yoshidahaji@pref.yamagata.jp

Abstract — *Chrysso vesiculosa* (Simon 1895) is redescribed using the specimens of both sexes. *C. jianglensis* Zhu & Song 1993 described from China using male specimen is newly synonymized with *C. vesiculosa*.

Key words — *Chrysso vesiculosa*, *Chrysso jianglensis*, Theridiidae, redescription, new synonymy

In my previous paper (Yoshida 2003), I described *Chrysso vesiculosa* (Simon 1895) using female specimens. Recently, I obtained additional specimens of both sexes. As

a result of my examination, *C. jianglensis* Zhu & Song 1993 described from China using only male specimen is identical with male of *C. vesiculosa*. In this paper, I wish to give a redescription and synonymize *C. jianglensis* with *C. vesiculosa*.

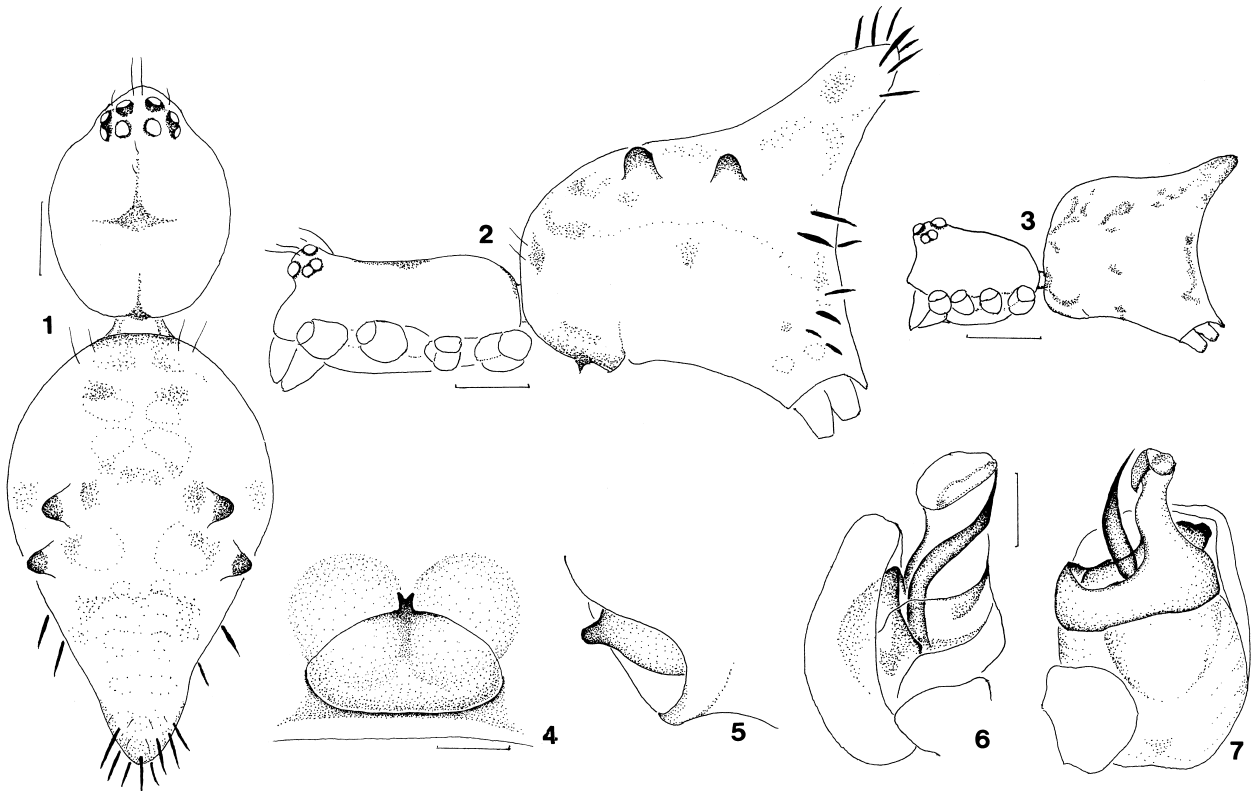
I wish to express my sincere thanks to Mr. Ken-ichi Kumada, Mie, and Mr. Koichi Nojima, Osaka, for offering specimens used in this paper.

***Chrysso vesiculosa* (Simon 1895)**
[Japanese name: Hishigata-himegumo]
(Figs. 1–7)

Meotipa vesiculosa Simon 1895, p. 134 (holotype: ♀ from Manila, the Philippines) — Simon 1908, p. 84; Saito 1941, p. 196; Yaginuma 1960, p. 34, pl. 7, fig. 43.

Chrysso vesiculosa: Yaginuma 1965, p. 35; Yaginuma 1968, p. 34, pl. 7, fig. 43; Yaginuma 1986, p. 45, pl. 10, fig. 6; Chikuni 1989, p. 32, fig. 15; Yoshida 1993, p. 33; Zhu 1998, p. 51, fig. 25; Song et al. 1999, p. 107, fig. 51E-F; Yoshida et al. 2000, p. 129; Yoshida 2003, p. 125, figs. 336, 339–340, 583.

Chrysso jianglensis Zhu & Song, in Song et al. 1993, p. 857, fig. 9 (holotype: ♂ from Mt. Longqi, Jiangle County, Fujian Province, China) — Zhu 1998, p. 68, fig. 39; Song et al. 1999, p. 103, fig. 49K-L. **New Synonymy**



Figs. 1–7. *Chrysso vesiculosa* (Simon 1895), ♀(1–2, 4–5) ♂(3, 6–7) from Geino-cho, Mie Prefecture—1, dorsal view; 2–3, lateral view; 4–5, epigynum, ventral (4) and lateral (5) view; 6–7, left palpus, prolateral (6) and ventral (7) view. Scales: 0.4 mm (1–3) and 0.1 mm (4–7).

Diagnosis. This species resembles *Chrysso argyrodiformis* (Yaginuma 1952) and *C. pulcherrima* (Mello-Leitão 1917), but is distinguished from them by the abdomen with two pairs of small projections in female, and palpal organ in male.

Description. Carapace oval, with eye region projecting. Eyes almost equal in size; anterior median eyes their diameter apart and one-third from laterals. Anterior width of median ocular area longer than posterior and length. Legs: patella, tibia and distal part of femur with several black and short spines in female; first patella and tibia 2.2 times carapace length in female, 1.9 in male; leg formula 1, 4, 2, 3. Abdomen: posterior end projecting beyond the spinnerets; dorsum with two pairs of small projections in female, without in male; posterior with many black and short spines in female, without in male (Figs. 1–3; Yoshida 2003, figs. 336, 583). Female genital organ: epigynum with an anteromedian small projection and a distinct large depression; seminal receptacles large; duct short (Figs. 4–5; Yoshida 2003, figs. 339–340). Male palpus: embolus thick; conductor with large apex (Figs. 6–7).

Coloration (Figs. 1–3; Yoshida 2003, figs. 336, 583). Carapace yellowish white with median thin black line. Legs yellowish white with many black spots; each segment with distal black ring. Chelicerae and maxillae yellowish white. Sternum yellowish white with marginally brown fleck and posterior half of median indistinct black line. Abdomen yellowish brown with white pigments and black flecks; venter without white pigments. Epigynum dark brown. In dark specimen, black and brown flecks large and distinct.

Measurements (in mm, ♀/♂ from Geino-cho, Mie Prefecture). Body length 4.11/1.74. Carapace length 1.42/0.68; width 1.11/0.63. Abdomen length 2.47/1.05; width 1.37/1.64; height 2.32/0.95. First leg: femur 4.21/1.63; patella and tibia 3.00/1.32; metatarsus 4.21/1.42; tarsus 1.05/0.63. Second patella and tibia 1.79/0.89; third patella and tibia 1.26/0.58; fourth patella and tibia 2.58/1.00.

Variation (in mm, ♀/♂). Body length 3.05–4.11/1.63–1.74. Carapace length 1.08–1.42/0.68–0.74; width 0.87–1.11/0.63–0.66. Abdomen length 2.00–2.47/1.00–1.05; width 1.26–1.82/0.58–0.74; height 2.32–2.82/0.74–0.95.

Specimens examined. 1♀, U-no-yama, Chita Peninsula, Aichi Prefecture, 3-VII-1984, Y. Chikuni leg.; 1♀1♂, Okamoto-kinoko-yama, Geino-cho, Age-gun, Mie Prefecture, 1-VI-2001, K. Kumada leg.; 1♀1♂, Mushiake, Oku-cho, Setouchi-shi, Okayama Prefecture, 13-VIII-2005, K. Nojima leg.

Distribution. Japan: Honshu. China, Philippine and Vietnam.

References

- Chikuni, Y. 1989. Pictorial Encyclopedia of Spiders in Japan. Kaiseisha, Tokyo. 310 pp. (In Japanese)
- Saito, S. 1941. Fauna Nipponica, 9 (2–2), Suborder Arachnomorphae, Tetrasticta Trionycha I. Class Arachnoidea, Order Araneina. 220 pp. Sanseido, Tokyo. (In Japanese)
- Simon, E. 1895. Etudes arachnologiques. 26^e Mémoire (1). XLI. Descriptions d'espèces et de genres nouveaux de l'ordre des Araneae. Ann. Soc. Ent. Fr., 64: 131–160.
- Simon, E. 1908. Étude sur les Arachnides du Tonkin (1^{ère} partie). Bull. Sci. Fr. Belg., 42: 69–147.
- Song, D., Zhu, M. & Chen, J. 1999. The Spiders of China. Hebei Science and Technology Publishing House, Hebei. 640 pp., 4 pls.
- Song, D., Zhu, M. & Li, S. 1993. Arachnida: Araneae. In Animals of Longqi Mountain. China Forestry Publishing House, Beijing, pp. 852–890. (In Chinese with English summary)
- Yaginuma, T. 1960. Spiders of Japan in Colour. Hoikusha, Osaka. vi+186+appendage 8 pp., 56 pls. (In Japanese)
- Yaginuma, T. 1965. Revision of families, genera and species of Japanese spiders (2). Acta Arachnol., 19: 28–36. (In Japanese)
- Yaginuma, T. 1968. Spiders of Japan in Colour (revised and enlarged ed.). Hoikusha, Osaka. vi+197 pp., 56 pls. (In Japanese)
- Yaginuma, T. 1986. Spiders of Japan in Color (new ed). Hoikusha, Osaka. xxiv+305 pp., 64 pls. (In Japanese)
- Yoshida, H. 1993. East Asian species of the genus *Chrysso* (Araneae: Theridiidae). Acta Arachnol., 42: 27–34.
- Yoshida, H. 2003. The Spider Family Theridiidae (Arachnida: Araneae) from Japan. Arachnological Society of Japan, Osaka. 224 pp. (In Japanese)
- Yoshida, H., Tso, I-M. & Severinghaus, L. L. 2000. The spider family Theridiidae (Arachnida: Araneae) from Orchid Island, Taiwan: Descriptions of six new and one newly recorded species. Zool. Studies, 39: 123–132.
- Zhu, M. 1998. Fauna Sinica, Arachnida, Araneae, Theridiidae. Science Press, Beijing. ix+436 pp., 1 pl. (In Chinese with English summary)

Received March 16, 2006 / Accepted April 15, 2006