



Two new species of the genus *Gergithus* Stål (Hemiptera: Fulgoromorpha: Issidae) from China, with a redescription of *G. bimaculatus* Zhang and Che, and *G. tessellatus* Matsumura

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Abstract

Two new species, *Gergithus nonomaculatus* **sp. nov.** and *G. tristriatus* **sp. nov.**, are described in this paper. In addition, *Gergithus bimaculatus* Zhang and Che, 2009 and *G. tessellatus* Matsumura, 1916 are given supplementary descriptions. A key to all the known species of *Gergithus* is provided. Variations of body colour and markings in some species of the genus *Gergithus* are discussed.

Key words: Fulgoromorpha, Hemisphaeriini, planthopper, taxonomy, female reproductive organs

Introduction

The genus *Gergithus* was erected by Stål in 1870 for the type species, *Hemisphaerius schaumii* Stål, 1855, from Sri Lanka. *Gergithus* belongs to the tribe Hemisphaeriini and is closely related to the genera *Gergithoides* Schumacher and *Hemisphaerius* Schaum. This genus, as well as other genera of Hemisphaeriini, is easily distinguished from genera within other tribes of Issidae by having a hemispherical body, clypeus on the same plane as frons, tegmen generally convex without a claval suture and legs not dilated.

There are 40 species in the genus *Gergithus* listed by Metcalf (1958). Since then, Hori (1969) reviewed the fauna of Japan and Taiwan, described four species and proposed three synonymies: *Gergithus koshunensis* Matsumura was placed in synonymy under *G. affinis* Schumacher, *Gergithus kuyanianus* Matsumura was placed in synonymy under *G. longulus* Schumacher, *Gergithus bizonatus* Matsumura was placed in synonymy under *G. bistriatus* (Schumacher), 1915. Chou *et al.* (1985) described one new species from China and Chan and Yang (1994) described six species from Taiwan and raised two subspecies to specific level. Recently, Liang (2000) proposed *Gergithus walkeri* Butler, 1875 as a junior synonym of *G. niger* (Walker) and Che *et al.* (2006) considered *Gergithus desperato* Chou and Lu, 1985 as a synonym of *Hemisphaerius lysanias* Fennah, 1978. Che *et al.* (2007) reviewed the genus *Gergithus*, described seven species from China and proposed *Ishiharanus* Hori as a junior synonym of *Gergithus*. Zhang and Che (2009) described two new species from China. Currently, 58 species belonging to the genus are recognized from the Oriental and Palearctic regions, 33 species of which have been recorded from China.

In this paper, two new species, *Gergithus nonomaculatus* **sp. nov.** and *G. tristriatus* **sp. nov.** are described from China. The species *G. bimaculatus* Zhang and Che, 2009 and *G. tessellatus* Matsumura, 1916 are given supplementary descriptions in this paper because they have been inadequately characterized previously, *G. bimaculatus* was originally described based on a single male specimen. The female genitalia and female reproductive organs of the new species are described.