



Review of the *Priocnemis hyalinata* species-group (Hymenoptera: Pompilidae), with description of a new species from China

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Abstract

Eight species in the *Priocnemis hyalinata* species-group are reviewed. The species-group is recorded from Oriental Region for the first time, and one new species, *Priocnemis (Priocnemis) yunnanensis* Loktionov, Lelej & Xu, **sp. nov.** (China: Yunnan) is described and illustrated. The lectotype of *Salius (Priocnemis) unicolor* Gussakovskij is designated. The distribution of *P. (P.) hyalinata* (Fabricius), *P. (P.) fennica* Haupt and *P. (P.) unicolor* (Gussakovskij) is clarified and enlarged within Russia. Keys to species for males and females are given.

Key words: Pepsinae, Priocnemini, new species, Oriental Region, Palaearctic Region, Nearctic Region, Yunnan

Introduction

Spider wasps (Pompilidae) are distributed worldwide, but mostly in the tropical regions (Pitts *et al.* 2006). The family includes around 5000 extant species in 125 genera and five subfamilies in the World (Aguilar *et al.* 2013, Waichert *et al.* 2015), estimated number of species in Palaearctic is 650 (Lelej & Loktionov 2012). The genus *Priocnemis* Schiødte, 1837 of the subfamily Pepsinae is distributed worldwide and numbers about 100 species in the Palaearctic. There are four subgenera of the genus: *Leptopriocnemis* Ishikawa, 1962, *Moczarellus* Wolf, 1963, *Priocnemis* Schiødte, 1837 and *Umbripennis* del Junco y Reyes, 1947.

The *Priocnemis hyalinata* species-group is a small group of spider wasps from nominotypical subgenus, which was proposed as the *Priocnemis femoralis* species-group (Wolf 1963) with five species: *P. femoralis* (Dahlbom, 1829) (currently *P. hyalinata* (Fabricius, 1793)), *P. melanosoma* Kohl, 1880, *P. unicolor* (Gussakovskij, 1926), *P. pseudunicolor* Wolf, 1963, and *P. fennica* Haupt, 1927. Currently we include in this species-group additional species: *P. azumai* Lelej, 1992, *P. germana* (Cresson, 1867), *P. ishikawai* Lelej, 1992, *P. sugonjaevi* Lelej & Loktionov, 2015, and describe *P. yunnanensis* **sp. nov.** from Yunnan (China). *Priocnemis pseudunicolor* was described by Wolf (1963) from Algeria in males. The paratype of this species was examined by Wahis and Terzo (1996) who synonymized it under *P. pogonioides* [sic!] Costa, 1883. We also examined the genitalia of another paratype of *P. pseudunicolor* Wolf ("Alger / Dr. J. Bequaert // *Priocnemis / pseudunicolor / Wolf / Paratype ♂ // pseudunicolor / Wolf 1960 / H. Wolf det. 1966*") [OLL], and support the opinion of Wahis & Terzo (1996) that *P. pogonioides* Costa, 1883 (= *P. pseudunicolor* Wolf, 1963) is completely different from the *P. hyalinata* species-group. According to Wolf (1963) *P. pogonioides* Costa, 1883 belongs to the *P. pusilla* species-group.

The goal of this paper is summary available data of the *P. hyalinata* species-group with description of one new species and key to the species in females and males.

Materials and methods

The terminology for morphology is based on the glossary provided by the Hymenoptera Anatomy Consortium