

DISCOVERY OF THE WORKER CASTE OF *PLATYTHYREA CLYPEATA* FOREL AND A NEW SPECIES OF *PROBOLOMYRMEX* MAYR IN YUNNAN, CHINA (HYMENOPTERA: FORMICIDAE) *

XU Zheng-hui* * and ZENG Guang

Faculty of Resources, Southwest Forestry College, Kunming, Yunnan Province, 650224

(Received Jan. 11, 2000; accepted May 23, 2000)

Abstract The worker caste of the ant species *Platythyrea clypeata* Forel is discovered and described for the first time. The genus *Platythyrea* Roger and the species *P. clypeata* Forel are newly recorded in China. Two species of the genus *Probolomyrmex* Mayr are recorded in China: *P. longinodus* Terayama et Ogata from Taiwan Province, and *P. longiscapus* sp. nov. from Yunnan Province.

Key words Formicidae, *Platythyrea*, *Probolomyrmex*, new species

The ant genus *Platythyrea* Roger is distributed over the world tropics, 38 species of the genus were described in the world (Bolton 1995), among them 12 species were reported from Indo-Australian (Brown 1975). Brown (1975) had a revision of the genus. In this study, the worker caste of *Platythyrea clypeata* Forel is discovered in Xishuangbanna Nature Reserve of Yunnan Province and described for the first time. The genus *Platythyrea* Roger and the species *P. clypeata* Forel are newly recorded in China.

The genus *Probolomyrmex* Mayr is distributed over the world tropics and Japan, 13 species of the genus were known in the world (Bolton, 1995), among them 7 species were reported in South and Southeast Asia. Taylor (1965) had a monographic revision of the genus and 9 species were treated. Terayama (1990) reported *P. longinodus* Terayama et Ogata in Taiwan Province and the genus were recorded in China for the first time. In this study, a new species of the genus is described from Xishuangbanna Nature Reserve of Yunnan Province, which becomes the second Chinese species of *Probolomyrmex*.

Standard measurements and indices are as defined in Holldobler *et al.* (1990): TL = total length, HL = head length, HW = head width, CI = cephalic index, SL = scape length, SI = scape index, PW = pronotal width, AL = alitrunk length, ED = maximum diameter of eye, ML = mandibular length, PNL = petiolar node length, PNW = petiolar node width, PH = petiole height. All measurements are expressed in mm.

The type specimens are deposited in The Insect Collection, Faculty of Resources, Southwest Forestry College, Kunming, Yunnan Province, P. R. China.

Platythyrea Roger, New Record in China

Platythyrea Roger, 1863, Berlin. *Entomol. Zeitschr.*, 7: 172. Type-species:

* This study is supported by the National Natural Science Foundation of China (Project No. 3950018) and the Applied and Basic Research Foundation of Yunnan Province (Project No. 95C067Q).

* * To whom correspondence and reprint request should be addressed. E-mail: zhxu@public.km.yn.cn