

TWO NEW SPECIES OF THE ANT GENUS *Polyrhachis* SMITH FROM YUNNAN, CHINA^{*} (Hymenoptera: Formicidae)

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Abstract In this paper, 2 new species of the ant genus *Polyrhachis* Smith found in Yunnan Province of China, *P. cyphonota* sp. n. and *P. bakana* sp. n., were described. *P. cyphonota* sp. n. belongs to the subgenus *Cyrtomyrma* Forel. *P. bakana* sp. n. belongs to the subgenus *Myrmhopla* Forel. *P. bakana* sp. n. was found in the tropical rain forest of Xishuangbanna Nature Reserve.

Key words Hymenoptera, Formicidae, *Polyrhachis*, New species, Yunnan

Polyrhachis Smith (1858) is a large genus in Formicidae. According to Bolton (1995a, 1995b), 477 species were described in the world, and Indo-Australian region is the center of the genus' distribution. Hung (1967) had a revisionary study of the subgenera of *Polyrhachis*, but most subgenera are much large and not convenient for identification of species. In contrast, species-group dividing is a useful way to recognize the numerous members in this large genus, just like the works of Bolton (1975) and Kohout (1987, 1989). However, much revisionary work in species-groups remains to be done.

Chinese species of *Polyrhachis* were reported by Smith (1858), Forel (1879), Viehmeyer (1912), Wheeler (1930-1931), and Chou *et al.* (1991). Recently, Wang *et al.* (1991) and Wu *et al.* (1995) had comprehensive studies of the genus and most Chinese species were treated. Tang *et al.* (1995) also reported part species of *Polyrhachis*. During the course investigating ant fauna of Southwestern China, 2 new species were discovered in Yunnan Province. Up to date, 31 species and 1 subspecies of *Polyrhachis* are known in China.

Measurements and indices are as defined in Bolton (1973, 1975): Total length—TL, Head length—HL, Head width—HW, Cephalic index— $CI=HW \times 100 / HL$, Scape length—SL, Scape index— $SI=SL \times 100 / HW$, Pronotal width—PW, Alitrunk length—AL, Maximum diameter of eye—ED. All measurements are expressed in millimeters. The type

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