A NEW SPECIES OF *CALLUELLA* STOLICZKA, 1872 (ANURA: MICROHYLIDAE) FROM TAMAN NEGARA, PAHANG STATE, PENINSULAR MALAYSIA

Indraneil Das

Institute of Biodiversity and Environmental Conservation, Universiti Malaysia Sarawak, 94300, Kota Samarahan,Sarawak, Malaysia Email: idas@ibec.unimas.my

Norsham Yaakob

Forest Research Institute Malaysia, Kepong, 52109 Kuala Lumpur, Malaysia. Email: norsham@frim.gov.my

Lim Boo Liat

Department of Wildlife and National Parks, Km 10, Jalan Cheras, 561000 Kuala Lumpur, Malaysia Email: limbooliat@yahoo.co.uk

ABSTRACT. – A new species of microhylid of the genus *Calluella* Stoliczka, 1872, is described from Sungai Relau, Taman Negara, Pahang State, Peninsular Malaysia. *Calluella minuta*, new species, is compared with congeners from Malaysia and other parts of south-east Asia. The new species is diagnosable in showing the following combination of characters: SVL 32.7 mm in the largest of the three specimens known; dorsum warty; no dermal fold across forehead; tympanum present; toe tips obtuse; webbing on toe IV broad up to median subarticular tubercle, webbing reaching tip of all toes as narrow sheaths; outer metatarsal tubercle present; and dorsum yellowish-brown with darker variegations.

KEY WORDS. - Calluella minuta, Microhylidae, systematics, new species, Taman Negara, Malaysia.

INTRODUCTION

Calluella Stoliczka, 1872 (Anura: Microhylidae) is a relatively small genus, with six nominal species, its members known from southern China, south to Indo-Malaya and Indo-China (Frost, 1985; Inger et al., 1999; Iskandar & Colijn, 2000). Most species are poorly known, being represented by one or a few specimens, except arguably *C. guttulata* (Blyth, 1856) in Vietnam (Inger et al., 1999) and *C. yunnanensis* Boulenger, 1919 from southern China (Yang, 1991: 225).

We conducted herpetofaunal inventory of the poorly-known north-west portion of Taman Negara, Pahang State, Peninsular Malaysia, between 17 - 19 October 2001, and collected two specimens of a *Calluella* which do not fit the description of any known species. A third specimen was found in the collection of the Raffles Museum of Biodiversity Research, National University of Singapore, collected by J. R. Hendrickson in 1958 and identified as *C. volzi* (van Kampen, 1905).

The species is allocated to Calluella for showing the following

characters diagnostic for the genus (see Parker, 1934: 27-28; Inger, 1966: 118-119): wide head and flattened body; eyes reduced; maxillary and vomerine teeth present; toes with reduced webbing; pupil circular; tongue large, oval and entire; paired dermal ridges across palate; and a large compressed inner metatarsal tubercle under each foot.

MATERIAL AND METHODS

The two specimens from the type series that were collected in 2001 were photographed prior to euthanasia, fixed in formalin ca. 14 h after collection and subsequently washed in water and transferred to 70% ethanol about a week after collection. Sex was determined through dissection. The following measurements were taken with MitutoyoTM dial vernier callipers (to the nearest 0.1 mm), 23 mo after collection: snout-vent length (SVL, from tip of snout to vent); tibia length (TBL, distance between surface of knee and surface of heel, with both tibia and tarsus flexed); head length (HL, distance between angle of jaws and snout-tip); head width (HW, measured at angle of jaws); head depth (HD,