



A new species of leaf-litter inhabiting *Georissus* from Borneo (Coleoptera: Hydrophiloidea: Georissidae)

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Abstract

Georissus (*Neogeorissus*) *smetanai* sp. nov. is described from Mt. Kinabalu National Park, Sabah, Malaysia. Long series of this species has been sifted from cloud forest leaf litter in contrast to most species of the genus, which are most frequently collected in riparian zones. The species is compared with *G. lateralis* Delève, 1967 and *G. inflatus* Delève, 1972, which were collected under similar circumstances and the leaf-litter habits of the three species are briefly discussed.

Keywords. *Georissus*, new species, leaf litter, terrestrial habitats, aptery, Malaysia, Borneo, Sri Lanka, Republic of the Congo

Introduction

Georissus Latreille, 1809 is the only genus of the hydrophiloid family Georissidae, currently containing 80 species distributed worldwide (Short & Fikáček, 2011). Representatives of the genus are typically riparian, inhabiting sandy or muddy banks of streams, rivers and sometimes even standing waters and temporary pools (e.g., Messner 1965, 1972; Shepard 2003; Fikáček & Falamarzi 2010; Litovkin & Fikáček 2011). Recently, Dr. Ivan Löbl drew my attention to long series of *Georissus* that were collected from cloud forest leaf litter in northern Borneo. The study of this material revealed an undescribed species of the genus, and the examination of the material deposited in the Delève collection in Brussels indicated that some other species were collected under similar ecological circumstances. The results of this comparative study are also presented here.

Material examined within this study is deposited in the following collections: BMNH – Natural History Museum, London, UK (M. Barclay); IRSNB – Institut Royal des Sciences naturelles, Bruxelles, Belgium (P. Limbourg); KSEM – Department of Entomology, University of Kansas, USA (A. Short); MNHG – Museum d'histoire naturelle, Genève, Switzerland (G. Cuccudorro, I. Löbl); NHMW – Naturhistorisches Museum, Wien, Austria (M. Jäch); NMPC – Department of Entomology, National Museum, Prague, Czech Republic (M. Fikáček); ZMUC – Zoological Museum, University of Copenhagen, Denmark (A. Solodovnikov).

Taxonomy

Georissus (*Neogeorissus*) *smetanai* sp. nov.

Figs 1-6

Type locality. Malaysia, Sabah province, Mt. Kinabalu National Park, Layang Layang env., 2600 m a.s.l. [the village is not mentioned on the locality labels, but the locality was specified on my request by I. Löbl].

Type material. HOLOTYPE: male (MNHG): “SABAH / Mt. Kinabalu / 2600 m, 2.V.1987 / Burckhardt – Löbl // 11a [on the opposite side of the label]”. **PARATYPES:** 121 spec. (MNHG, NMPC, BMNH, KSEM, NHMW, ZMUC): same label data as the holotype; 21 spec. (MNHG, NMPC): SABAH / Mt. Kinabalu / 2600 m, 1.V.1987 / Burckhardt – Löbl // 10a [on the opposite side of the label]; 1 male, 6 spec. (MNHG, NMPC): “BORNEO: SABAH Mt. / Kinabalu Nat. Pk. / Layang Layang / 2160m, 2.V.[19]87 / A. Smetana”; 1 male, 1 female, 45