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A new species of karst dwelling *Cnemaspis* Strauch 1887 (Squamata: Gekkonidae) from Sarawak, Borneo

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Abstract

A new species of karst dwelling *Cnemaspis* is described from western Sarawak, Malaysia on the island of Borneo. *Cnemaspis paripari* **sp. nov.** is presumably endemic to the karst outcroppings which extend approximately 4.2 km between Gua Angin and Gua Pari-pari in the district of Bau. It is the only species of Southeast Asian *Cnemaspis* with a median, subcaudal row of bead-like scales and whose adult males have a bright yellow head and a bright yellow regenerated tail. *Cnemaspis paripari* **sp. nov.** differs markedly from the other three species of Bornean *Cnemaspis* in aspects of size, squamation, and coloration and its presence underscores the potential unrealized diversity of this genus in Borneo as compared to Peninsular Malaysia.

Key words: Cnemaspis, paripari, Borneo, karst, new species, taxonomy

Introduction

Within the last six years, geckos of the Southeast Asian genus *Cnemaspis* (sensu Bauer et al. 2007) have undergone extensive taxonomic revision resulting in the description of four new species from Vietnam (Grismer and Ngo 2007); one new species from Cambodia (J. Grismer et al. 2010); and 11 new species from Peninsular Malaysia and its associated archipelagos (Chan & Grismer, 2008; Das & Grismer 2003; Grismer & Chan, 2008; Grismer & Das, 2006; Grismer et al. 2008a,b; Grismer et al. 2009). Descriptions of four new species from Thailand, a new species from Laos, a new species from Vietnam, and three additional species from Peninsular Malaysia are currently underway (Grismer et al. in prep.). Overlooked in this taxonomic resurgence has been the island of Borneo which to date, is known to have only three species of *Cnemaspis* (Das & Bauer 1998). This stands in stark contrast to nearby Peninsular Malaysia which has a lower overall lizard diversity (Das & Norsham, 2007) but has at least 19 (16 described, three undescribed) species of *Cnemaspis*, 11 of which were described within the last six years (see previous references).

In January 2009, an animal importer/exporter in Kuala Lumpur, Malaysia alerted us to four small geckos brought to him by a bird collector from Sarawak. The lizards were found on karst formations associated with Gua Angin and Gua Pari-pari, caves in western Sarawak in the district of Bau near the border of Kalimantan, Indonesia (Fig. 1). We immediately recognized these lizards as belonging to the genus *Cnemaspis* in having broad, flattened heads; large, somewhat forward and upwardly directed eyes with round pupils and no eyelids; flattened bodies; and long, widely splayed limbs with long, inflected digits. However, we could not aSsign them to any of the three Bornean species nor to any other species of *Cnemaspis* from Southeast Asia. To confirm the provenance of these specimens and to acquire baseline natural history data we visited Gua Angin and Gua Pari-pari the following month and were able to confirm the presence of this undescribed species at