Resolving a mammal mystery: the identity of *Paracoelops megalotis* (Chiroptera: Hipposideridae)

VU DINH THONG1,2,6, CHRISTIAN DIETZ2, ANNETTE DENZINGER2, PAUL J.J. BATES1, SEBASTIEN J. PUECHMAILLE4, CÉCILE CALLOU5 & HANS-ULRICH SCHNITZLER2

1Institute of Ecology and Biological Resources, Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet Road, Cau Giay District, Hanoi, Vietnam
2Animal Physiology, Institute of Neurobiology, Faculty of Sciences, University of Tübingen, Auf der Morgenstelle 28, D-72076, Tübingen, Germany
3Harrison Institute, Bowerwood House, St Botolph’s Road, Sevenoaks, Kent, TN13 3AQ, United Kingdom
4School of Biology and Environmental Sciences, University College Dublin, Belfield, Dublin 4, Ireland
5Muséum national d'Histoire naturelle, CP55, Bat, d’Anatomie comparée, 55 rue Buffon, 75005 Paris, France
6Corresponding author. E-mail: vudinthong@hotmail.com

Abstract

*Paracoelops* has been regarded as monotypic and an endemic bat genus of Vietnam. In the original description of 1947, *P. megalotis* was characterised by its exceptionally large ears and well developed interfemoral membrane without a tail. The status of this taxon remained uncertain since the species and genus descriptions were based on the single, badly damaged holotype. Recently, we re-examined the holotype and found discrepancies between its features and those described in the diagnoses. Its measurements and characteristics are entirely identical to those of a small species of *Hipposideros*. Having compared its features with those of other hipposiderids, we show here that *Paracoelops megalotis* was incorrectly classified both in terms of genus and species and should be considered a synonym of *Hipposideros pomona*.

Key words: *Hipposideros*, Mammalia, nomenclature, taxonomy, Vietnam

Introduction

To date, the family Hipposideridae comprises 90 species belonging to 18 genera (Vu Dinh Thong 2011; Vu Dinh Thong et al. 2012a; Vu Dinh Thong et al. 2012b). Prior to this study, hipposiderids of the Indomalayan region were thought to belong to six genera (*Asellia*, *Aselliscus*, *Coelops*, *Hipposideros*, *Paracoelops*, *Triaenops*), and all species of *Hipposideros* were classified into five groups: “bicolor”, “pratti”, “armiger”, “specios”, and “diadema” (Corbet and Hill 1992; Simmons 2005). Following this classification, hipposiderids of Vietnam currently belong to four genera: *Aselliscus*, *Coelops*, *Hipposideros*, and *Paracoelops*, and the *Hipposideros* consists of 16 species (Corbet and Hill 1992; Hendrichsen et al. 2001; Borissenko and Kruskop 2003; Simmons 2005; Vu Dinh Thong 2011; Vu Dinh Thong et al. 2012a; Vu Dinh Thong et al. 2012b).

Based on the characteristics of the original description, *Paracoelops* differs from all other genera of the family Hipposideridae (Corbet and Hill 1992; Borissenko and Kruskop 2003; Hand and Kirsch 2003; Simmons 2005). However, the taxonomic status of *Paracoelops megalotis* has been in some doubt on account of the incomplete and badly damaged specimen (Corbet and Hill 1992; Csorba and Bates 2008). Between November 2006 and July 2010, we re-examined the holotype and conducted a series of field surveys throughout Vietnam with emphasis on hipposiderids to assess the status of *Paracoelops megalotis*. This paper provides a detailed description with a reclassification of that holotype and its taxonomy.