A new endemic cave dwelling species of *Cyrtodactylus* Gray, 1827 (Squamata: Gekkonidae) in Kien Giang Biosphere Reserve, Southwestern Vietnam

NGO VAN TRI1, L. LEE GRISMER2 & JESSE L. GRISMER3

1Department of Environmental Management and Technology, Institute of Tropical Biology, Vietnamese Academy of Sciences and Technology, 85 Tran Quoc Toan Str, Dist. 3, Hochiminh City, Vietnam. E-mail: trigeckonid@hotmail.com

2Department of Biology, La Sierra University, 4500 Riverwalk Parkway, Riverside, California 92515, USA.
E-mail: lgrismer@lasierra.edu

3Department of Biology, Villanova University, 800 Lancaster Avenue, Pennsylvania, USA.
E-mail: Jesse.grismer@villanova.edu

Abstract

A new endemic cave-dwelling species of gekkonid lizard, *Cyrtodactylus hontreensis* sp. nov., is described from Hon Tre Island in Kien Giang Biosphere Reserve in southwestern Vietnam and differentiated from all other species by a unique suite of the following characters: SVL of 79.7 ± 4.9 mm, three broad transverse dorsal body bands edged in white between limb insertions, very low smooth dorsal body tubercles, the absence of a precloacal groove, 7–8 precloacal pores arranged in a chevron in males, a shallow dorsal groove on the tail, absence of caudal tubercles, and various aspects of color pattern.

Key word: Description, Hon Tre Island, *Cyrtodactylus hontreensis*

Introduction

The gekkonid fauna of Vietnam and peninsular Indochina is diverse. Nineteen new species of gekkonids have recently been described (Ziegler et al. 2002; Das 2004; Rösler et al. 2005; Nguyen et al. 2006; Heidrich et al. 2007; Orlov et al. 2007; Hoang et al. 2007; Grismer & Ngo 2007; Ngo & Bauer 2008; Rösler et al. 2008; Ngo 2008; Ngo & Luong 2008) as well as the reconfirmation of the presence of *Cyrtodactylus intermedius* (Smith) in the Bay Nui Mountains in An Giang Province (Ngo & Grismer 2006; Ngo 2008), replacing the erroneous records of Bobrov (1992, 1995).

Ngo (2008) noted that isolated hills and offshore islands in Gulf of Thailand had high potential for harboring gekkonid endemics. A field survey was conducted in the rocky cave systems of Hon Tre Island in Kien Hai district, Kien Giang Biosphere Reserve, Kien Giang province in January and September 2006 where seven specimens of an undescribed species of *Cyrtodactylus* Gray were collected. All possessed a unique combination of character states differentiating them from all other known species of *Cyrtodactylus*, and thus this species is described herein as new.

Material and methods

All voucher specimens were injected with MS–222, preserved with 10% formalin after collecting liver tissue samples and transferred to 70% ethanol. The specimens were deposited in the Zoological Collection of the Faculty of Biology, University of Natural Sciences (UNS) in Hochiminh City, Vietnam.