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Corrections and additions to the taxonomy of *Anacaena* THOMSON, 1859 from the People's Republic of China (Coleoptera: Hydrophilidae)

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Abstract

Based on the examination of the type specimens of *Anacaena hunanensis* PU, 1964 and *A. pseudoyunnanensis* JIA, 1997 (Coleoptera: Hydrophilidae) two new synonymies are established: *A. hunanensis* is a junior subjective synonym of *A. yunnanensis* ORCHYMONT, 1942, which has not been recorded from Hunan before, and *A. pseudoyunnanensis* JIA, 1997 is a junior subjective synonym of *A. maculata* PU, 1964.

Key words: Coleoptera, Hydrophilidae, *Anacaena*, taxonomy, China.

Introduction

In the taxonomic revision of *Anacaena* from the People's Republic of China (KOMAREK 2012), *Anacaena pseudoyunnanensis* JIA, 1997 and *A. hunanensis* PU, 1964 were erroneously regarded as unavailable ("nomina nuda"), because the original descriptions of both species do not include information, which would enable recognition of the species, and because the holotype of *A. hunanensis* was regarded as lost, and the holotype of *A. pseudoyunnanensis*, a single female, is severely damaged. However, the deduction was based on a wrong interpretation of the International Code of Zoological Nomenclature.

Surprisingly, the holotype of *A. hunanensis* finally has been retrieved in the collection of the Zhongshan University, Guangzhou, in 2013.

I am indebted to Prof. Fenglong Jia (Zhongshan University, Guangzhou, Guangdong, China) for sending the holotypes of *A. hunanensis* and *A. pseudoyunnanensis*.

Results

Anacaena yunnanensis ORCHYMONT, 1942

Anacaena yunnanensis ORCHYMONT 1942: 49; KOMAREK 2012: 267.

Anacaena hunanensis PU 1964: 397; JIA 1997: 106; KOMAREK 2012: 269. **syn.n.**

TYPE MATERIAL of *Anacaena hunanensis*: **Holotype** ♂ (Zhongshan University, Guangzhou). For label data, see Fig. 1.

Unfortunately, the aedeagus of the holotype of *A. hunanensis* is sealed under a cover glass on a glass slide and is not removable. Therefore, it could not be studied thoroughly. In his key, PU (1964) separates *A. hunanensis* from *A. yunnanensis* by the body length (slightly shorter) and the shape of the apex of the mesothoracic protuberance ("pointed anteriorly and slightly ventrally"). Actually, the differential diagnostic characters including features of the aedeagus fall within the variability of *Anacaena yunnanensis* "which shows a remarkable variability of the aedeagus, in contrast to most species of *Anacaena*" (KOMAREK 2012), justifying the synonymization. *Anacaena yunnanensis* is rather widespread in Yunnan (KOMAREK 2012) and is herewith recorded from Hunan Province for the first time.

Anacaena maculata* PU, 1964Anacaena maculata* PU 1964: 399; JIA 1997: 108; KOMAREK 2012: 259.*Anacaena pseudoyunnanensis* JIA 1997: 110; KOMAREK 2012: 270. **syn.n.**TYPE MATERIAL of *Anacaena pseudoyunnanensis*: **Holotype** ♀ (Zhongshan University, Guangzhou). For label data, see Fig. 2 and KOMAREK (2012).

The holotype (Yunnan Province, leg. Pu, 1939) lacks caput and pronotum (KOMAREK 2012). According to the morphology of its remnants, it could belong to *A. hainanensis* JIA, 1997, to *A. jiafenglongi* KOMAREK, 2012, or to *A. maculata*.

However, *A. hainanensis* is obviously endemic to the island of Hainan, *A. jiafenglongi* is known only from a single locality in extreme western Yunnan, whereas *A. maculata* is very widely distributed in China, including Yunnan and Hunan, the type locality of *A. maculata*. Therefore, I consider *A. pseudoyunnanensis* a junior subjective synonym of *A. maculata*.



Figs. 1–2: Labels of the holotypes of 1) *Anacaena hunanensis*, 2) *A. pseudoyunnanensis*.

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