

Revision of the *Protohermes* species from Tibet, China (Megaloptera: Corydalidae)

XINGYUE LIU & DING YANG*

Department of Entomology, China Agricultural University, Beijing 100094, China.

E-mail: dyangcau@yahoo.com.cn or yangding@cau.edu.cn

*Corresponding author

Abstract

The species of the genus *Protohermes* from Tibet are recorded and revised. *Protohermes tibetanus* Yang & Yang is now a junior synonym of *P. infectus* (McLachlan) and two species are described as new to science: *Protohermes latus* sp. nov., and *Protohermes motuoensis* sp. nov. A key to the species from Tibet is presented.

Key words: Corydalidae, *Protohermes*, new species, Tibet, China

Introduction

Megaloptera, a primitive and very distinctive order of Neuropterida, is known from Tibet, China, from only two Corydalinae species, *Protohermes tibetanus* Yang & Yang and *Protohermes davidi* Weele (Yang 1988; Lestage 1927). However, the record of *P. davidi* remains doubtful because no specimens have been found in collections. During our revision of the Chinese Megaloptera, two new *Protohermes* species were found from Tibet. Additionally, *P. tibetanus* is synonymized with *P. infectus* (McLachlan), leaving only three *Protohermes* species as representatives of Megaloptera in Tibet. These species are reported, keyed, and described.

Material and methods

The specimens were collected mostly by light trap in mountainous regions near clean running water. Genitalic preparations were made by clearing the apex of the abdomen in cold, saturated KOH for 8–10 hours. The apex of the abdomen was transferred to glycerin