



## Five new species of *Pelthydrus* Orchymont, 1919 from China and adjacent countries (Coleoptera: Hydrophilidae)

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### Abstract

Five new species of the genus *Pelthydrus* Orchymont, 1919 (Coleoptera: Hydrophilidae) are described from China (*Pelthydrus grossus* sp. nov., *P. subgrossus* sp. nov., *P. longifolius* sp. nov., *P. rosa* sp. nov. and *P. yulinensis* sp. nov.); all belong to the *Pelthydrus jendeki* species group. Their distribution in China and adjacent countries (Thailand, Laos) is presented.

**Key words:** taxonomy, faunistics, new species, China, Thailand, Laos

### Introduction

Since the revision of the genus *Pelthydrus* (Schönmann 1994, 1995) three new species have been described from Hainan Island (Bian *et al.* 2008). Previously, fifty-eight species were known mainly from Oriental region, with 16 of them known from China. (Bian *et al.* 2008; Gentili *et al.* 1995; Hansen 1999; Komarek 2003).

In this paper another five new species of *Pelthydrus* from China are described, belonging to the *Pelthydrus jendeki* group; thus, the total number of species within the group has increased to nine. All type specimens from China have been collected during excursions of the Austrian - Chinese Biodiversity Project “China Water Beetle Survey” (Jäch & Ji 1995, 1998, 2003) and are deposited in IAECAS and NMW.

### Material & methods

Specimens were examined with an Olympus SZX16 compound microscope. The body length was measured from the front margin of the labrum to the elytral apex. Aedeagal illustrations were drawn with the aid of a drawing tube. Male genitalia were placed in concentrated lactic acid in an excavated slide for at least several hours before they were examined. Photos were taken with an Olympus E-410 zoom digital camera (10 megapixels) mounted on an Olympus SZX16 dissecting scope.

### Abbreviations

IAECAS Institute of Applied Ecology, Shenyang, Chinese Academy of Sciences

CWBS China Water Beetle Survey