



Revision of *Megabeleses* Takeuchi (Hymenoptera, Tenthredinidae) with description of two new species from China

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Abstract

Megabeleses Takeuchi, 1952 is redescribed and a key to species provided. *Megabeleses magnoliae*, **sp. nov.** and *M. xiaoi*, **sp. nov.** from China are described. *M. liri dendrovorax* Xiao, 1993, *M. crassitarsis* Takeuchi, 1952 and *M. tsurugiensis* Togashi, 2008 are redescribed and illustrated based on types and new material.

Key words: Hymenoptera, Tenthredinidae, *Megabeleses*, new species, China

Introduction

Megabeleses and its type species, *M. crassitarsis* were described by Takeuchi (1952) from Japan. Xiao (1993) described a second species from South China, *M. liri dendrovorax*, which is a common pest of *Liriodendron chinense* (Hemsl.) Sarg. Togashi (2008) described a third species, *M. tsurugiensis* from Japan. Ding & Zheng (1999) reported *M. crassitarsis* Takeuchi from China as a pest of two common ornamental *Magnolia* species (Magnoliaceae). However, examination of the specimens reared from larvae by Prof. Ding, which were identified as *M. crassitarsis* Takeuchi (Ding & Zheng, 1999), has shown that it is a misidentification and that the specimens represent an undescribed *Megabeleses* species. In 2005, three specimens of another undescribed species of *Megabeleses* were collected in Hunan Province, China. The two new species are described below.

Material and methods

Specimen images were taken using a digital camera with a series of images montaged using Helicon Focus (©HeliconSoft). The distribution map was prepared using the software DIVA-GIS (downloaded free from the website: <http://www.diva-gis.org>).

Terminology of sawfly genitalia follows Ross (1945). Wing venation follows Niu & Wei (2010, Plate 1).

Acronyms refer to the following institutions: CSCS, Central South University of Forestry and Technology, Changsha, P. R. China; FCAF, Institute of Forestry, Chinese Academy of Forestry, Beijing, P. R. China; DEI, Senckenberg Deutsches Entomologisches Institut, Müncheberg, Germany; OPU, Osaka Prefecture University, Sakai, Japan; NMNS, National Museum of Nature and Science, Tokyo, Japan. The type specimens of the new species described in this paper are deposited in CSCS.

Results and discussion

Megabeleses Takeuchi

Megabeleses Takeuchi, 1952: 32.

Type species: *Megabeleses crassitarsis* Takeuchi, 1952. By original designation.