



One new species, four new records and key to species of *Hydatothrips* (Thysanoptera: Thripidae) from China (including Taiwan)

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Abstract

Hydatothrips ormosiae sp. n. (Thripidae: Sericothripinae) is described from southern China; *H. ekasi*, *H. liquidambara* and *H. onari* Kudô are newly recorded for mainland China, and *H. noro* Kudô is newly recorded for Taiwan. A key to the 16 *Hydatothrips* species recorded from China (including Taiwan) is provided.

Key words: Sericothripinae, *Hydatothrips*, leaf-feeding, China

Introduction

The Thysanoptera subfamily Sericothripinae is a group of mainly leaf-feeding Thripidae (Kudô 1998). The members of this subfamily are distinguished from the three other subfamilies by the following combination of character states: legs covered with annulated microtrichial rows, pronotum with large blotch medially, metasternum with thickened posterior half (Wang 1994, 2007; Masumoto 2010). This subfamily includes three genera, *Hydatothrips* Karny (40 species), *Neohydatothrips* John (100 species), and *Sericothrips* Haliday (9 species) (Wang 2007; Mound & Tree 2009; Mirab-balou *et al.* 2011a; Mound 2013). The species of *Hydatothrips* differ from those of the other two genera by having the metasternum forming two arms with a median V-shaped apodeme (Wang 2007) (Fig. 10).

In China, this genus includes 13 species (including Taiwan) (Mirab-balou *et al.* 2011). Wang (1994) reported two species of *Hydatothrips* from Taiwan, of which one was a new record. Subsequently, Wang (2007) revised *Hydatothrips* species from East and South Asia including a key to 23 species and described two new species collected from Taiwan. *Hydatothrips houji* Chou and Feng was transferred to *Sericothrips* (Mirab-balou *et al.* 2011a: 56), and *H. jiawensis* Chou & Feng was synonymized with *H. proximus* Bhatti by Mirab-balou *et al.* (2011a: 57), and these authors described a new species, *H. longjingensis*, from tea in China. South China and Taiwan share a similar fauna, with the same species occurring in these two areas. Two species are here newly reported from mainland China that were previously recorded from Taiwan. Moreover, two species from Japan are here newly recorded for China.

Recently, in identifying specimens of our collection (SCAU), we found some unknown species as new records to China including Taiwan. One new species of *Hydatothrips* is described and illustrated by SEM images, and a key to 16 species of *Hydatothrips* from China is provided.

Material and methods

The new species was collected in Guangdong Province from *Ormosia pinnata* (Fabaceae) (Fig. 1), and specimens were mounted into Canada balsam. Figures 2, 10 & 13–16 were made using a camera lucida; figures 3–9 & 11–12 were made using a scanning electron microscope, under an XL-30-ESEM operated at 20 kV, in South China