



Trichromothrips* genus-group (Thysanoptera, Thripidae) from Vietnam, with descriptions of new species in both *Okajimaella* and *Paithrips

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Abstract

Okajimaella nonakai sp. n. and *Paithrips pornthipae* sp. n. are described from bamboo in Vietnam as the third and second species respectively in these genera. Also newly recorded from bamboo in Vietnam are *O. tubercula* Nonaka & Janguvitaya and *P. circularis* Nonaka & Janguvitaya, *Neocorynothrips asiaticus* Rhamakrishna & Margabandhu, *Takethrips megas* Nonaka & Janguvitaya, *Watanabeothrips yasuaikii* Okajima, and *Yoshinothrips thailandicus* Nonaka & Janguvitaya. As a result, nine species from seven genera are now known from bamboo in Vietnam.

Key words: Thysanoptera, Thripidae, *Okajimaella*, *O. tubercula*, *Paithrips*, *P. circularis*, *Trichromothrips* genus-group, bamboo, Vietnam

Introduction

The thrips fauna of the Oriental region is one of the richest in the world, and this fauna has been studied by many workers. In addition to species descriptions, from authors such as Okajima (1978a-d, 1979a,b) and Kudo (1979), check-lists or identification keys have been published for several areas in the region, including an identification key to the Indian fauna (Ananthkrishnan & Sen, 1980), a check-list of the Terebrantia of the Indian subregion (Bhatti, 1990), a check-list for the main land of Indonesia (zur Strassen, 1994), a check-list of Thripidae for Peninsula Malaysia (Mound & Azidah, 2009), an illustrated key to genera of Thripinae in Southeast Asia (Mound & Ng, 2009), and identification keys to the Philippines fauna (Reyes, 1994). But the fauna remains poorly documented, and Mound & Azidah (2009) indicated that there are many undescribed taxa from Brunei at the Natural History Museum, London.

For the thrips fauna of Vietnam, there have been few studies other than descriptions of a few thripid species of the *Trichromothrips* genus-group, such as a *Trachynotothrips* species (Masumoto & Okajima, 2005a), and one species of *Trichromothrips* (Masumoto & Okajima, 2011). A working document from Richard zur Strassen (Mound, 2012) lists eight species from eight genera of Thripinae, but more extensive faunal data is necessary to construct identification keys for agricultural or quarantine workers as well as thrips specialists.

Recently, the present authors found a further eight species of Thripinae in six genera, all from bamboo in Vietnam. These thrips are all related to *Trichromothrips*, and include the two new species described below. The six genera involved are: *Neocorynothrips*, *Okajimaella*, *Paithrips*, *Takethrips*, *Watanabeothrips* and *Yoshinothrips*.

Material and methods

The specimens examined during this study were slide-mounted into Canada balsam. The specimens were observed using optical microscope, mainly Olympus BX51, of 100-600 magnification, and text figures were sketched by using a drawing attachment. The specimens were measured by using a micrometer eyepiece; width is across a line