Occurrence of *Mymarothrips garuda* Ramakrishna & Margabandhu (Thysanoptera: Terebrantia: Aeolothripidae) on banana in South India

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### Introduction

The family Aeolothripidae (Thysanoptera: Terebrantia) includes many facultative predators of other small arthropods. In the warmer parts of the world, several species are obligate predators (Hoddle, 2003), although some species are almost certainly solely phytophagous, and a few are found in flowers (Tyagi et al., 2008).

Species of the Old World genus *Mymarothrips* Bagnall (Aeolothripidae) are also obligate predators but have a body form and wings that resemble those of small chalcid wasps (OzThrips, 2024). The genus is highly distinctive, with racquet-shaped fore wings (greatly expanded subapically) and stout, moniliform antennae. At present, *Mymarothrips* includes three extant species, which may be no more than colour variants of a single widespread species (Mound & Marullo, 1998), and one fossil species, *Mymarothrips groehni* Ulitzka (2015), described from Baltic Tertiary Amber. The three extant species, *M. ritchianus* Bagnall from Africa, *M. garuda* Ramakrishna & Margabandhu, 1931 from India and southern China, and *M. bicolor* zur Strassen from Indonesia and northern Australia, exhibit slight differences from each other in the extent of shading on the fore wings (OzThrips, 2024). Diagnostic information on *M. bicolor* and *M. ritchianus* is available in online resources, *Thrips of Australia, OzThrips, and Identification and Information tools for thrips in East Africa*, respectively. Images of slide mounted *M. garuda* are included in Varatharajan et al. (2018) and Elie et al. (2021).

The purpose of this note is to record the occurrence of *M. garuda* on banana. The original description from Tamil Nadu (South India) was based on two specimens, one collected on grapevine leaf with *Rhizophorothrips cruentatus* Hood and the other on turmeric leaves with *Panchaetothrips indicus* Bagnall.

### Results and Discussion

A single female specimen was found to be actively moving in a colony of *Stephanitis typica* (Distant) (Hemiptera: Tingidae), a common pest of banana foliage, in Tamil Nadu, South India, and collected using an aspirator. Though Thysanoptera taxonomy is on a solid foundation with several online resources such as ThrpsWiki and OzThrips, images of live thrips are unavailable for most species as correct identification requires examination of slide mounted material. Here, a representative image of *M. garuda* is given because of its unique appearance that should make it easy to identify for applied entomologists.

*Mymarothrips garuda* can be identified by the following set of characters (modified from Ramakrishna & Margabandhu, 1931): Female: Macropterous. Length: 1.60 mm. Body colour bright yellow and black, with reddish pigmentation over abdominal segments 3 to 6 and apex; antenna black, stout and moniliform, with strong bristles; a bright yellow median longitudinal patch extending from ocellar region to base of abdomen, broader at pterothorax; cheeks brown, pronotum brown, tinged with red along sides, medially yellow (Fig. 1). Head and prothorax longer than broad. Forewing racket-shaped, apically greatly expanded; dark greyish with a distinct transverse hyaline patch just before apex; hindwing largely hyaline except for a broad greyish strip along anterior margin and smaller greyish/infuscate patches on basal and apical margins (Fig. 2).

*Mymarothrips garuda* appears to be a rare species of a rare genus, as nearly all available literature from India is based on just one or two specimens. In the Checklist of Indian Thysanoptera by Tyagi & Kumar (2016), *M. garuda* is listed as distributed in the states of Madhya Pradesh, Tamil Nadu, and West Bengal. Rachana & Varatharajan (2017) also listed *M. garuda* in their Checklist of Indian Terebrantia.
Maisnam et al. (2012) and later Varatharajan et al. (2018) recorded it from Arunachal Pradesh in northeastern India.

References


Material

https://data.canadensys.net/micropublications/resource?resource_id=specimen_27