



## First report of three genera of fairyflies (Hymenoptera: Mymaridae) from India with description of a new species of *Dicopus* and some other records

S. MANICKAVASAGAM & A. RAMESHKUMAR

*Parasitoid Taxonomy and Biocontrol Laboratory, Department of Entomology, Faculty of Agriculture, Annamalai University, Chidambaram-608 002. T.N. India. E-mail: drmanicks2003@yahoo.co.in*

### Abstract

*Dicopomorpha* Ogloblin, *Dicopus* Enoch and *Omyomymar* Schauff (Hymenoptera: Mymaridae) are recorded from India for the first time and one new species, *Dicopus noyesi* Manickavasagam, **sp. nov.**, is described from material collected from the state of Tamil Nadu. *Gonatocerus bicoloriventris* Zeya, *G. breviterebratus* Subba Rao, *G. shamimi* Subba Rao and Hayat, *Mymar schwanni* Girault, *Narayanella thornypoda* (Narayanan & Subba Rao) and *Polynema mendeli* Girault (Mymaridae) are also newly recorded from the state of Tamil Nadu.

**Key words:** *Dicopus*, *Dicopomorpha*, *Omyomymar*, new species, new distribution

### Introduction

Mymarid egg parasitoids are among the smallest chalcids. They are common in almost all habitats but because of their minute size are difficult to find and are often overlooked even by entomologists searching for them in sweep net catches or from traps (Malaise trap, pan traps). Though there are 98 genera of mymarids reported worldwide (Noyes 2011), only 22 are recorded from India (Hayat, personal communication). Recently, Rameshkumar *et al.* (2011a, 2011b) reported distributional records of 12 genera and 13 species of Mymaridae from Kerala and 3 genera and 6 species from Andhra Pradesh, respectively. In the present study, we record Mymaridae from Tamil Nadu that include three new generic records for India and present additional new distributional records from Tamil Nadu and describe one new species.

### Materials and methods

Mymaridae were collected from February, 2009 to July, 2011 using net sweep, yellow pan traps and Malaise traps as described by Noyes (1982) in various places of Tamil Nadu and Acharya N. G. Ranga Agricultural University premises, Hyderabad, Andhra Pradesh. Specimens were processed using Hexamethyldisilazane as described by Brown (1993) and either card, point or slide mounted and diagnosed using the keys provided by Subba Rao & Hayat (1983), Zeya & Hayat (1995), Hayat & Anis (1999) and Lin *et al.* (2007). In the description of the new species, measurements are given in actual ocular divisions, which can be converted to mm by multiplying by 0.0025. Specimens are deposited in the following collections: EDAU — (Entomology Department, Annamalai University), Chidambaram, Tamil Nadu, India; NPC — National Pusa Collection, Division of Entomology, Indian Agricultural Research Institute (IARI), New Delhi; ZDAMU — Zoology Department, Aligarh Muslim University, Aligarh, India.