

ISSN 0972- 1800



# BIONOTES

VOLUME 23, NOS. 2 & 3

QUARTERLY

APRIL--SEPTEMBER, 2021



Date of Publication: 4<sup>th</sup> October, 2021

# BIONOTES

A Quarterly Newsletter for Research Notes and News  
On Any Aspect Related with Life Forms

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## From Volume 21

Published by the Entomological Society of India (ESI), New Delhi (Nodal Officer: V.V.  
Ramamurthy, ESI, New Delhi)

And

Butterfly Research Centre, Bhimtal  
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Cover Photo of founder of BIONOTES *Late* Dr. R.K. Varshney

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## NEW RECORDS OF *PSEUDANAPHES SIKKIMIANUS* (INSECTA: CHALCIDOIDEA: MYMARIDAE) FROM MEGHALAYA, INDIA

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*Reviewer: Ankita Gupta*

### Abstract

*Pseudanaphes sikkimianus* is reported for the first time in Meghalaya, which is the second north-eastern Indian state from which this species has been recorded.

Keywords: Mymaridae, new record, Meghalaya

### Introduction

*Pseudanaphes* Noyes & Valentine, 1989 belongs to the *Anaphes* Haliday, 1833 group, with a total of five species (Noyes & Valentine, 1989) described globally represented by *P. hirtus* Noyes and Valentine, 1987 described from New Zealand (Noyes & Valentine, 1989), *P. zhaoi* Lin, 1997 from China (Lin, 1997), two species *P. lincolni* (Girault, 1913) and *P. particoxae* (Girault, 1938) from Australia (Lin *et al.*, 2007) and *P. sikkimianus* Rehmat & Anis, 2011 from India (Rehmat & Anis, 2011). *Pseudanaphes* resembles some species of *Anaphes* but is distinguished by the long marginal vein and an evenly rounded forewing apex. From India, just one described species was recorded from Sikkim. In the present study, *P. sikkimianus* is reported from Meghalaya, which is the second state distribution record from India and an extension to the known distribution of the species.

### Materials and Methods

The specimens were collected using yellow pan trap and later were preserved in 70% alcohol. Preparation of slides specimens followed a methodology described by Noyes (1982). Taxonomic keys given by Lin *et al.* (2007), Noyes & Valentine (1989) were used for morphological identification.

Measurements were taken using a compound microscope with graticule from slide-mounted

and preserved specimens given in millimeters (mm) viewed under 40X (one division = 0.025 mm). All collected specimens (slides and preserved) were deposited in the Entomology Laboratory, Department of Zoology, North Eastern Hill University, Shillong, Meghalaya, India.

### Results and Discussion

#### *Pseudoanaphes* Noyes & Valentine, 1989

*Pseudanaphes* Noyes & Valentine, 1989: 47.

Type species: *Pseudanaphes hirtus* Noyes & Valentine, by original designation.

#### *P. sikkimianus* Rehmat & Anis, 2011

Material examined: 3 ♀ India, North East, Meghalaya, Ingkyrsa, 1214m, 25°14'30.28"N and 91°27'40.90"E. 20.x.2016, (Yellow Pan Trap). Coll. B. Kharbisnop.

Distribution: Sikkim (Rehmat & Anis, 2011) and Meghalaya (new record).

Description: Body metallic dark-colour approximately measured 0.55 mm in length. Head strongly sculptured with an appropriate length - 0.08 mm, bearing large and globular eyes (0.05 mm). Scape very long (0.13 mm) with globular pedicel (0.03 mm). Female funicle 6-segmented; f1, f5-f6 equally measured with 0.02 mm each, f2 longest - measuring 0.04 mm whereas f3-f4 each measures 0.03 mm respectively; clava entire

with 0.12 mm in length. Metasoma measures 0.27 mm as long as wide than mesosoma (0.17 mm). Forewing and hindwing narrow as well as elongated, almost equally measured - 0.53 mm and 0.50 mm respectively bearing elongated cilium. Fore-leg and mid-leg almost subequal in length (0.41 mm and 0.49 mm respectively); hind-leg longer compared to the two, roughly 0.60 mm in length. Ovipositor 0.14 mm.

*Pseudanaphes sikkimianus* was described in 2011. So far the species was considered to be confined to Sikkim. The present paper extends the known distribution of *P. sikkimianus* to Meghalaya.

#### Acknowledgement

The authors are thankful to the Head of the Department of Zoology, NEHU for providing all the necessary facilities and to NEHU for UGC-Non NET fellowship.

#### References

Girault, A.A. 1913. Australian Hymenoptera Chalcidoidea—II. Supplement. *Memoirs of the Queensland Museum* 13: 107–129.

Girault, A.A. 1938. New Trichogrammatidae and Mymaridae from Australia (Hym). *Revista de Entomología (Rio de Janeiro)* 9: 382–396.

Lin, N.Q. 1997. A new species of *Pseudanaphes* (Hymenoptera: Mymaridae) from China. *Wuyi Science Journal* 13: 98–100.

Lin, N.Q., J.T. Huber & J. LaSalle. 2007. The Australian genera of Mymaridae (Hymenoptera: Chalcidoidea). *Zootaxa* 1596: 1–111.

Noyes, J.S. 1982. Collecting and preserving chalcid wasps (Hymenoptera: Chalcidoidea). *Journal of Natural History* 16: 315–334.

Noyes, J.S. & E.W. Valentine. 1989. Mymaridae (Insecta: Hymenoptera). Introduction and review of genera. *Fauna of New Zealand* 17: 1–95.

Rehmat, T. & S. B. Anis. 2011: First record of *Pseudanaphes* (Hymenoptera: Mymaridae) from India, with description of a new species. *Biosystematica* 5(1): 13-16.



Fig 1 & 2: *Pseudanaphes sikkimianus* (40X)