

ISSN 0972- 1800



BIONOTES

VOLUME 23, NO. 4

QUARTERLY

OCTOBER—DECEMBER, 2021



Date of Publication: 24th April, 2022

BIONOTES

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

Founder

Late Dr. R. K. Varshney, Aligarh, India

Board of Editors

Peter Smetacek, Butterfly Research Centre, Bhimtal,
India
petersmetacek@gmail.com

V.V. Ramamurthy, New Delhi, India
vvrento@gmail.com

Zdenek F. Fric, Biology Centre, Czech Academy of
Sciences, Institute of Entomology, Branisovska 31,
CZ-37005 Ceske Budejovice, Czech Republic.
fric@entu.cas.cz.

Stefan Naumann, Berlin, Germany
sn@saturniidae.com

R.C. Kendrick, Hong Kong SAR
hkmoths@gmail.com

Devanshu Gupta, Zoological Survey of India, Kolkata,
India
devanshuguptagb4102@gmail.com

Publication Policy

Information, statements or findings published
are the views of its author/ source only.

Manuscripts

Please E-mail to petersmetacek@gmail.com.

Guidelines for Authors

BIONOTES publishes short notes on any
aspect of biology. Usually submissions are
reviewed by one or two reviewers.

Kindly submit a manuscript after studying the
format used in this journal

(<http://www.entosocindia.org/>).

Editor reserves the right to reject articles that
do not adhere to our format. Please provide a
contact telephone number. Authors will be
provided with a pdf file of their publication.

Address for Correspondence

Butterfly Research Centre, Bhimtal,
Uttarakhand 263 136, India. Phone: +91
8938896403.

Email: butterflyresearchcentre@gmail.com

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
Executive Editor: Peter Smetacek
Assistant Editor: Shristee Panthee
Butterfly Research Trust, Bhimtal

Cover Photo of *Athyma nefte* by Rajib Dey

TABLE OF CONTENTS

EDITORIAL COMMENT ON BUTTERFLIES PROPOSED TO BE INCLUDED IN THE SCHEDULES OF THE WILDLIFE (PROTECTION) AMENDMENT BILL, 2021 by Peter Smetacek	150
<i>TRIUMFETTA RHOMBOIDEA</i> (MALVACEAE) AS NEW LARVAL HOST PLANT FOR THE GREAT EGGFLY BUTTERFLY <i>HYPOLIMNAS BOLINA</i> (LEPIDOPTERA: NYMPHALIDAE) by Raju Kasambe & Dilip Giri	153
NEW DISTRIBUTIONAL RECORD OF <i>EUASPA</i> MOORE, 1884 (LEPIDOPTERA: LYCAENIDAE: THECLINAE) FROM SIKKIM, INDIA by Janukit Lepcha, Sonam Wangchuk Lepcha, Monish Kumar Thapa, Achintya Pran Hazarika, Nosang Muringla Limboo & Sonam Pintso Sherpa	156
ARECA PALM <i>DYPSIS LUTESCENS</i> (ARECACEAE) AS NEW LARVAL HOST PLANT FOR THE INDIAN PALM BOB <i>SUASTUS GREMIUS</i> (FABRICIUS, 1798) (INSECTA: LEPIDOPTERA: HESPERIIDAE) by Raju Kasambe & Geeta Manchekar	158
<i>MALLOTUS PHILIPPINENSIS</i> (EUPHORBIACEAE): A NEW LARVAL HOST PLANT FOR LOBSTER MOTH <i>STAUROPOUS ALTERNUS</i> WALKER, 1855 (LEPIDOPTERA: NOTODONTIDAE) by Raju Kasambe, Hrishikesh Ghogare & Dilip Giri	160
AN ADDITION TO THE BUTTERFLIES OF ARUNACHAL PRADESH: VEINED PALMER <i>HIDARI BHAWANI</i> by Mayur H Variya, Roshan Upadhaya, Minom Pertin, Ruksha Limbu, Mitum Rumdo & Monsoon Jyoti Gogoi	163
RECORD OF THE WHITE-PATCH SERGEANT <i>ATHYMA PUNCTATA</i> (INSECTA: LEPIDOPTERA: NYMPHALIDAE) FROM ANINI, ARUNACHAL PRADESH, INDIA by Anung Lego, Joho Tayu, Timai Miwu, Minom Pertin, Mayur H Variya, Roshan Upadhaya & Monsoon Jyoti Gogoi	166
FIRST RECORD OF DESERT BATH WHITE BUTTERFLY <i>PONTIA GLAUCONOME</i> (KLUG, 1829) (LEPIDOPTERA: PIERIDAE) FROM RAJASTHAN, INDIA by Souvick Mukherjee, Kushankur Bhattacharyya & Sourabh Biswas	169
SIGHTINGS OF THE TAILLESS LINEBLUE <i>PROSOTAS DUBIOSA</i> (INSECTA: LEPIDOPTERA: LYCAENIDAE) IN DELHI, INDIA by Rajesh Chaudhary & Chandra Bhusan Maurya	171
<i>RUMEX MARITIMUS L.</i> (POLYGONACEAE): A NEW LARVAL HOST PLANT FOR <i>EUREMA HECABE</i> (INSECTA: LEPIDOPTERA: PIERIDAE) by Aditya Karmakar & Rajib Dey	173
SOCIO-ECONOMIC SURVEY IN RELATION TO TRADE OF TURTLES IN TWO DISTRICTS OF UTTAR PRADESH, INDIA by Renu Singh, Netrapal Singh Chauhan & Shailendra Singh	176
THE GENUS <i>XANDRAMES</i> MOORE, 1867 (INSECTA: LEPIDOPTERA: GEOMETRIDAE) IN INDIA by B. Lalnghapuii & Peter Smetacek	185
	148

OCCURRENCE OF ANOMALOUS NAWAB <i>POLYURA AGRARIUS</i> (INSECTA: LEPIDOPTERA: NYMPHALIDAE) CONFIRMED IN UTTAR PRADESH, INDIA by Babita Sharma, Sushmita & Ashok Kumar	190
CONFIRMATION OF THE PRESENCE OF <i>MATAPA ARIA</i> (INSECTA: LEPIDOPTERA: HESPERIIDAE) IN UTTAR PRADESH by Sushmita, Babita Sharma & Ashok Kumar	192
EARTHWORM (ANNELIDA: OLIGOCHAETA) DIVERSITY AT SAGAR ISLAND, SOUTH 24 PARGANAS DISTRICT, WEST BENGAL by Amit Chowdhury	194
DIVERSITY OF TUSSOCK MOTHS BELONGING TO TRIBE NYGMIINI HOLLOWAY, 1999 (LYMANTRIINAE: EREBIDAE: LEPIDOPTERA) FROM CHITTAGONG UNIVERSITY, BANGLADESH WITH THREE NEW RECORDS by Md. Jahir Rayhan, J.K. Owaresat Irfan, Sayema Jahan & M. A. Habib Siam	197
FIRST RECORD OF KING CROW <i>EUPLOEA KLUGII</i> (INSECTA: LEPIDOPTERA: NYMPHALIDAE) FROM THE KUMAON HIMALAYA, INDIA by Ambica Agnihotri	200
<i>BIBASIS SENA</i> AND <i>PORITIA HEWITSONII</i> (INSECTA: LEPIDOPTERA: HESPERIIDAE & LYCAENIDAE) RECORDED FROM UTTAR PRADESH, INDIA by Apoorva Gupta	202
ANIMAL RIGHTS IDEOLOGY AND ANIMAL WELFARE PHILOSOPHY IN THE INDIAN CONTEXT by Ryan Lobo & Meghna Uniyal	204
REPORT ON A LIVE GYNANDROMORPH OF THE COLOR SERGEANT BUTTERFLY <i>ATHYMA NEFTE INARA</i> (INSECTA: LEPIDOPTERA: NYMPHALIDAE) FROM INDIA by Kurban Khan, Rajib Dey, Atanu Bose, Shantanu Dey, Anitava Roy & Sourabh Biswas	218

AN ADDITION TO THE BUTTERFLIES OF ARUNACHAL PRADESH: VEINED PALMER *HIDARI BHAWANI*

MAYUR H VARIYA¹, ROSHAN UPADHAYA², MINOM PERTIN³, RUKSHA LIMBU⁴, MITUM RUMDO¹ & MONSOON JYOTI GOGOI⁵

¹Namdapha Tiger Reserve, Miao, 792122

*mayurhvariya@gmail.com

²Arunachal Pradesh Police, Miao, 792122

³Society for Education & Environmental Development, Miao, 792122

⁴Department of Life Sciences, RIMT University, Mandi Gobindgarh (Punjab), India

⁵Bombay Natural History Society, Mumbai-400001

Reviewer: Piet van der Poel

Abstract: The Veined Palmer *Hidari bhawani* was only known to occur in Assam in India. In this note, we report its presence in Namdapha National Park & Tiger Reserve, Miao, Arunachal Pradesh. The record is however not surprising as Changlang district shares borders with Assam in the west and Myanmar in the south-east, where this species has been reported, but very rarely.

Introduction and Discussion

Arunachal Pradesh is the largest among the North-east Indian states and is located at the foothills of Eastern Himalaya. Namdapha National Park & Tiger Reserve (Namdapha NP & TR), located in the eastern Arunachal Pradesh, is one of the oldest and largest (1985 km²) protected areas and known for an exceptional biological diversity. Among the 700 butterfly species found in Arunachal Pradesh (Singh *et al.*, 2016), 410 of them have been recorded in Namdapha NP & TR (Society for Education & Environmental Development, 2020), which makes it a global butterfly diversity hotspot. Here we report the occurrence of the Veined Palmer *Hidari bhawani* from Namdapha NP & TR, an addition to the butterfly fauna of Arunachal Pradesh.

The genus *Hidari* Distant, 1886 comprises three species: *H. irava* (Moore, [1858]), *H.*

bhawani de Nicéville, [1889] and *H. doesoena* Martin, 1895. In India, only *H. bhawani* is found while the other two are found in South-east Asia. We recorded *H. bhawani* twice in Miao town of Changlang district which is a part of the Buffer Zone of Namdapha NP & TR. First, an adult was photographed at Miao Police Station (27°29'9.51"N 96°12'19.55"E) at 270 m amsl elevation on 27.ix.2019 (Fig. 1) and another adult was photographed at the Urban Shopping Complex, Miao (27°28'59.74"N 96°12'5.80"E) at 261 m amsl elevation on 19.ii.2021 (Fig. 2).

Previously, *H. bhawani* has been documented from the Koh Kong province, Cambodia (Chartier, 2019), Arakan Coast, Toungoo, Myanmar, Langkawi Island in Malaysia (Evans, 1949), Rayong Province, Thailand (Ek-Amnuay, 2012), Dong Nai Province, Vietnam (Inou S. & A. Kawazo, 1970) and

Lakhimpur, Jorhat, Sivasagar, Tinsukia and Golaghat districts of Assam state, India (Evans, 1949; Norman, 1953; Singh, 2015). *H. bhawani* is rare in Thailand and very rare in Peninsular Malaysia and India (Chartier, 2019; Singh, 2015).

No reports of *H. bhawani* from Arunachal Pradesh were found in a thorough search of the cited literature. Though we did not find the early stages of the species, the time period between our two recent sightings (nearly 17 months) indicates that the species may have a stable resident population in Miao area, where host plants are abundant. However, it is worth noting that the Changlang district borders Assam in the west and Myanmar to the south-east (where this species has been reported, but very rarely), hence this additional report is not very surprising, especially considering the lack of research on Lepidoptera in and around eastern Arunachal Pradesh. Interestingly, these recent observations from Namdapha NP & TR represent an extension to the known distribution of *H. bhawani* to the north-east.

Acknowledgement

We are thankful to Mr. Tajum Yomcha, Research Officer, Namdapha National Park & Tiger Reserve for his guidance and valuable inputs.

References

Chartier, G. 2019. Discovery of the genus *Hidari* Distant, 1886 (Lepidoptera: Hesperidae: Hesperinae) in Cambodia and life cycle of *Hidari bhawani* de Nicéville [1889]. *Cambodian Journal of Natural History* 2019: 121–127.

Ek-Amnuay, P. 2012. *Butterflies of Thailand*. 2nd Edition, Revised. Baan Lae Suan Amarinn Printing, Bangkok, Thailand. 943 pp.

Evans, W. H. 1949. *A Catalogue of the Hesperidae from Europe, Asia and Australia in the British Museum (Natural History)*. Trustees of the British Museum, London. xix + 502 pp, 53 pl.

Inou, S. & Kawazo, A. 1970. Hesperiid butterflies from South Vietnam (5). - *Tyo to Ga* 21 (1 & 2): 1-14.

Norman, T. 1953. Notes on the Lepidoptera of Assam-II. Some additions to Assam list and other notes. *Journal of the Bombay Natural History Society* 51: 515–517.

Singh, A.P. 2015. Recent record of a rarely recorded species, the Veined Palmer *Hidari bhawani* de Nicéville, 1888 (Lepidoptera: Hesperidae: Aeromachini) from Jorhat, Assam, India. *Journal of Threatened Taxa* 7(1): 6839–6840; <http://dx.doi.org/10.11609/JoTT.o4031.6839-40>

Singh, A.P. & Das, D.J. 2016. *Butterfly Atlas of Arunachal Pradesh, India*. Rain Forest Research Institute, Jorhat. 463 pp.

Society for Education & Environmental Development, 2020. Checklist: Butterflies of Namdapha National Park. A report submitted to CF & FD office, Namdapha Tiger Reserve, Miao, Arunachal Pradesh. 6 pp.



Fig.1: *Hidari bhawani* de Nicéville, [1888]

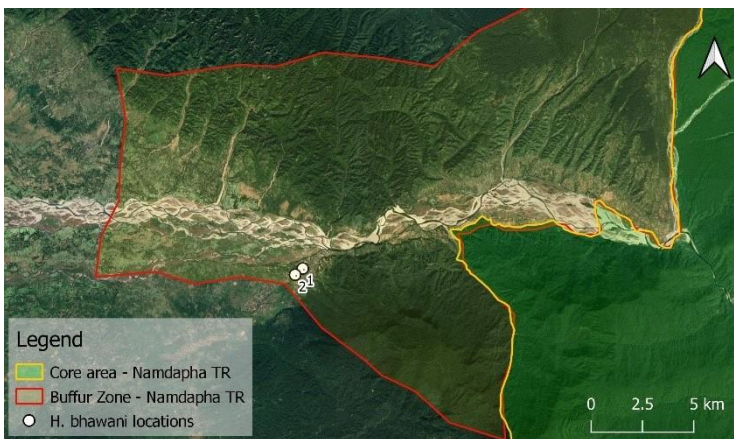


Fig.2: Recent sightings of *Hidari bhawani* at Namdapha National Park & Tiger Reserve