

ISSN 0972- 1800



VOLUME 22, NO. 3

QUARTERLY

JULY-SEPTEMBER, 2020



Date of Publication: 28th September, 2020

BIONOTES

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

BIONOTES articles are abstracted/indexed/available in the Indian Science Abstracts, INSDOC; Zoological Record; **Thomson Reuters (U.S.A); CAB International (U.K.); The Natural History Museum Library & Archives, London; Library Naturkundemuseum, Erfurt (Germany)** etc. and online databases.

Founder Editor

Dr. R. K. Varshney, Aligarh, India

Board of Editors

Peter Smetacek, Bhimtal, India

V.V. Ramamurthy, New Delhi, India

Jean Haxaire, Laplune, France

Vernon Antoine Brou, Jr., Abita Springs,
U.S.A.

Zdenek F. Fric, Ceske Budejovice, Czech
Republic

Stefan Naumann, Berlin, Germany

R.C. Kendrick, Hong Kong SAR

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

Published by Dr. R.K. Varshney, A Biologists Confrerie, Raj Bhawan, Manik Chowk,
Aligarh (up to volume 20 (2018)) R.N.I. Registration No. 71669/99.

Cover Photo of *Spialia zebra* by Mukesh Panwar

TABLE OF CONTENTS

FIRST RECORD OF RED IMPERIAL BUTTERFLY <i>SUASA LISIDES</i> (INSECTA: LEPIDOPTERA: LYCAENIDAE) FROM TRIPURA, NORTH-EAST INDIA by Nihar Chandra Deb & Sudipta Mandal	110
ADDITION OF THE BUTTERFLY <i>APPIAS GALBA</i> (WALLACE, 1867) TO THE FAUNA OF MANIPUR, INDIA by Jatishwor Singh Irungbam, Harmenn Huidrom & Premjit Singh Elangbam	112
FIRST RECORD OF <i>DODONA DIPOEA</i> HEWITSON, [1866] (LEPIDOPTERA: RIODINIDAE: NEMEOBIINAE) FROM MEGHALAYA, NORTHEASTERN INDIA by Atanu Bora, Laishram Ricky Meitei, Sachin Sharma, Suman Bhowmik & Ngangom Aomoa	114
FIRST RECORD OF <i>PSEUDOCATHARYLLA NIGROCILIELLA</i> ZELLER, 1863 (LEPIDOPTERA: CRAMBIDAE) FROM KERALA by Abdulla Paleri, Md. Jahir Rayhan & Amal Ev	117
GECKO EATS ABDOMEN OF <i>ASOTA CARICAE</i> (FABRICIUS, 1775) (LEPIDOPTERA: EREBIDAE: AGANAINAE) by Sem Cordial	119
RANGE EXTENSION OF PURPLE SWIFT <i>CALTORIS TULSI</i> DE NICÉVILLE (LEPIDOPTERA: HESPERIIDAE) TO THE WESTERN HIMALAYA by Shankar Kumar, Raj Shekhar Singh, Paramjit Singh & Sundar Kumar	121
<i>ERANTHEMUM ROSEUM</i> (ACANTHACEAE) A NEW LARVAL HOST PLANT FOR THE CHOCOLATE PANSY BUTTERFLY <i>JUNONIA IPHITA</i> (LEPIDOPTERA: NYMPHALIDAE) by Raju Kasambe	125
NEEM FLOWERS (<i>AZADIRACHTA INDICA</i>) AS AN ABUNDANT SOURCE OF NECTAR FOR BUTTERFLIES IN AN URBAN LANDSCAPE IN DELHI, INDIA by Rajesh Chaudhary	128
REDISCOVERY OF THE ASSAM FLASH BUTTERFLY <i>RAPALA TARA</i> (LEPIDOPTERA: LYCAENIDAE) FROM UTTARAKHAND, INDIA by Gaurav Joshi	135
INDIAN TREE FROG <i>POLYPEDATES MACULATUS</i> CAPTURING AND SWALLOWING A LIVE GECKO by Priyadarshini Supekar & Raju Kasambe	136
NEW LARVAL HOST PLANT OF <i>TRYPANOPHORA SEMIHYALINA</i> KOLLAR [1844] (INSECTA: LEPIDOPTERA: ZYGAENIDAE: CHALCOSINAE) FROM WEST BENGAL, INDIA by Arajush Payra	138
FIRST REPORT OF THE NORTHERN JUNGLEQUEEN BUTTERFLY (<i>STICHOPHTHALMA CAMADEVA</i>) FROM MIZORAM, INDIA by Lallawmsanga & R. Zoramchhuana	141
<i>ERANTHEMUM ROSEUM</i> (ACANTHACEAE): A NEW LARVAL HOST PLANT FOR THE SOUTHERN BLUE OAKLEAF BUTTERFLY <i>KALLIMA HORSFIELDII</i> KOLLAR, 1844 (LEPIDOPTERA)	108

by Raju Kasambe & Dilip Giri	143
CONFIRMATION OF THE REDBREAST BUTTERFLY <i>PAPILIO ALCMENOR</i> (LEPIDOPTERA: PAPILIONIDAE) IN UTTARAKHAND, INDIA by Rajiv Butalia, Shankar Kumar & Ambica Agnihotri	146
TWO NEW BUTTERFLY SPECIES FOR NEPAL: <i>EUREMA ANDERSONI</i> (PIERIDAE) AND <i>LETHE DAKWANIA</i> (NYMPHALIDAE) by Piet van der Poel	148
THE DRAGONFLY <i>ATRATOTHEMIS REELSI</i> WILSON, 2005 IN NAMDAPHA TIGER RESERVE, NORTHEAST INDIA- AN ADDITION TO THE INDIAN ODONATA FAUNA by Minom Pertin, Roshan Upadhaya, Tajum Yomcha & Arajush Payra	153
FIRST RECORD OF LEECH'S SWIFT <i>CALTORIS BROMUS</i> LEECH, 1894 (INSECTA: LEPIDOPTERA: HESPERIIDAE: HESPERIINAE) FROM WEST BENGAL, INDIA by Rajib Dey	155
OVIPOSITION BY <i>JAMIDES BOCHUS</i> (STOLL, [1782]) (INSECTA: LEPIDOPTERA: LYCAENIDAE) IN NEW DELHI, INDIA by Rajesh Chaudhary & Vinesh Kumar	157
DISTRIBUTIONAL RANGE EXTENSION OF BANANA SKIPPER <i>ERIONOTA TORUS</i> (LEPIDOPTERA: HESPERIIDAE) TO THANE AND PALGHAR DISTRICTS OF MAHARASHTRA, INDIA WITH DISCUSSION ABOUT ITS HARMFUL EFFECTS ON LOCAL BANANA PLANTATIONS by Sagar Sarang, Nilesh Chandorkar, Tejas Mehendale, Gaurav Khule, Abhinav Nair, Omkar Dame & Raju Kasambe	158
NECTAR RETRIEVAL BY INSECT SWARM DOES NOT RESULT IN POLLINATION OF <i>LYONIA OVALIFOLIA</i> FLOWERS IN THE KUMAON HIMALAYA, INDIA by Ambica Agnihotri	163
A COMPREHENSIVE CHECKLIST OF BUTTERFLIES SEEN IN CORBETT TIGER RESERVE, UTTARAKHAND, INDIA by Rajesh Chaudhary, Sanjay Chhimwal & Vinesh Kumar	167
THE ZEBRA SKIPPER BUTTERFLY <i>SPIALIA ZEBRA</i> : AN ADDITION TO THE BUTTERFLIES OF INDIA by Mukesh Panwar	187
CONFIRMATION OF THE ROSY FLASH BUTTERFLY <i>RAPALA ROSACEA</i> (LEPIDOPTERA: LYCAENIDAE) IN MIZORAM, INDIA by Lallawmsanga & Zothansangi	188
SOME NEW DISTRIBUTION RECORDS OF HESPERIID BUTTERFLIES IN NEPAL by Sajan K.C.	190
BUTTERFLIES OF GOVERNMENT NURSERY, BHATAGAON, CHHATTISGARH WITH TWO ADDITIONS TO THE STATE FAUNA by H N Tandan, Gulab Chand, Ravi Naidu & Swati Tandan	195

CONFIRMATION OF THE REDBREAST BUTTERFLY *PAPILIO ALCMENOR* (LEPIDOPTERA: PAPILIONIDAE) IN UTTARAKHAND, INDIA

RAJIV BUTALIA¹, SHANKAR KUMAR² & AMBICA AGNIHOTRI³

¹*Village Chatola, P.O. Mukteshwar, Uttarakhand 263138, India*

rajivbutalia@gmail.com

²*Government Post Graduate College, Ranikhet, Almora, 263645, Uttarakhand, India.*

kumarshankar86@gmail.com

³*JRF, Uttarakhand Forest Research Institute, Haldwani, Uttarakhand 263 139*

Reviewer: Peter Smetacek

The Redbreast (*Papilio alcmenor* C. & R. Felder, 1864) is a conspicuous butterfly that is found in the Himalaya as well as in China, Indo-China and Hainan. Although not a rare species in the eastern Himalaya, its westernmost record was from Kumaon, Uttarakhand, where Hannington (1910) noted that it "occurs sparingly in May and September up to 7000".

It is not on record who collected the butterflies mentioned by Hannington (1910), nor where the specimens are, if they still exist. In the intervening 110 years, there were no reports of this butterfly from Kumaon. Smith (2006) recorded it from central Nepal and the Kathmandu valley eastwards. So far, it has not been reported from western Nepal.

On 2nd July 2020, a butterfly was observed in Chatola village on the periphery of Mukteshwar forest (1900 m; 29°38'47" N; 79°46'08" E), Nainital district, Kumaon, Uttarakhand. It had been captured by a flower spider. The butterfly was photographed and identified as a male *P. alcmenor*. The upper hindwing has several white markings, which places it as the form *leucocelis* Jordan, 1909.

On 26.viii.2020, a male was photographed in Bhatraunjhan village (29°35'39" N 79°18'05" E; 1540 m), Betalghat block, Nainital district.

On 16.ix.2020, a male was collected in Bhowali market (29°23'24" N 79°30'17" E; 1650 m), Nainital district. On 22.ix.2020, a

worn female was collected near the above location in Bhowali. Both the specimens are in the collection of the Butterfly Research Centre, Bhimtal.

The three males recorded are of three different forms. This suggests that the species is common, with many male individuals so that three randomly sampled males represent three different forms.

These are the first confirmed records of the species from the Himalaya west of central Nepal in over a century and confirms the continued presence of the species in the area. According to Sevastopulo ((1973), it feeds on *Citrus* sp. However, citrus is rather less common at Mukteshwar and Bhowali than at lower elevation in the area. The area around Bhimtal and Nainital has been continuously surveyed for over 70 years by the Smetacek family, but they never recorded the species (Peter Smetacek, *pers. comm.*). Perhaps the butterfly is restricted to some other, possibly wild member of the Rutaceae in the western Himalaya, which restricts its distribution, or perhaps, like *Delias acalis* (Godart, 1819) (Pieridae), it extends its distribution to this area in favourable years and is absent in other years (Panthee, 2019).

References

Hannington, F. 1910. The butterflies of Kumaon. Parts I & II. *Journal of the Bombay Natural History Society* 20: 130-142; 361-372.

Panthee, S. 2019. Re-appearance of the Red Breast Jezabel *Delias acalis* (Godart, 1819) (Lepidoptera: Pieridae) in the Kumaon Himalaya. *Bionotes*. 21(2): 45.

Sevastopulo, D.G. 1973. The food-plants of Indian Rhopalocera. *Journal of the Bombay Natural History Society* 70: 156-183.

Smith, C. 2006. *Illustrated Checklist of Nepal's Butterflies*. Walden Book House, Kathmandu. 2+129 pp.



Fig.1: *Papilio alcmenor*, Bhatraunjkhana



Fig.2: *Papilio alcmenor*, male, Bhowali



Fig.3: *Papilio alcmenor*, female, Bhowali

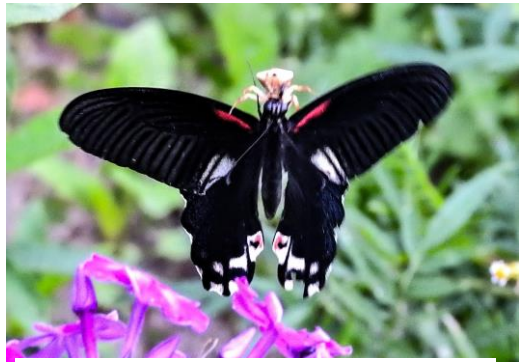


Fig.4: *Papilio alcmenor*, form *leucocelis*, Mukteshwar