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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 <u>vvrento@gmail.com</u>

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

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R.C. Kendrick, Hong Kong SAR <u>hkmoths@gmail.com</u>

Devanshu Gupta, Zoological Survey of India, Kolkata, India <u>devanshuguptagb4102@gmail.com</u>

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Address for Correspondence

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

Email: <u>butterflyresearchcentre@gmail.com</u>

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Cover Photo of founder of BIONOTES Late Dr. R.K. Varshney

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CHECKLIST OF BUTTERFLIES (INSECTTA: LEPIDOPTERA) FROM FOUR DISTRICTS OF CHHATTISGARH, INDIA WITH THREE ADDITIONS TO THE STATE FAUNA OF BUTTERFLIES OF CHHATTISGARH

H. N. TANDAN¹, GULAB CHAND², RAVI NAIDU³, SWATI TANDAN⁴, GULSHAN KUMAR SAHU¹, RAMANAND AGRAWAL⁵ AND TANUJA¹

*1S.G.G. Govt. P.G. College, Kurud, Chhattisgarh, 493663, India

tandanhn79@gmail.com

²Govt. N. P. G. College of Science, Raipur, Chhattisgarh, 492001, India
³C.R.O.W. Foundation, Jagdalpur, Chhattisgarh, 494001, India
⁴Govt. H.S.S. Kurud, Chhattisgarh, 493663, India
⁵Govt. Pt. S. S. M. College Deobhog, Chhattisgarh, 493890, India

Reviewer: A.S. Sisodia

Abstract

A checklist of 83 species of butterflies from Dhamtari, Gariaband, Raipur & Baloda Bazar districts of Chhattisgarh state is presented based on surveys from October, 2018 to December, 2020. Three species out of 83 here reported are new records to the state butterfly fauna of Chhattisgarh.

Introduction

Biogeographically, Chhattisgarh comes under the Deccan Plateau (Rodgers *et al.*, 2002), and geologically, the Central Indian Plateau of Madhya Pradesh and Chhattisgarh is a part of the Gondwana Plateau (Chandra & Singh, 2004). The climate of the state is tropical, hot and humid due to its proximity to the Tropic of Cancer.

Sisodia (2019) reviewed 142 species from the previously published records (Chandra et al., 2014 & Dubey et al., 2015) and further added 19 species to the state fauna of butterflies, while removing two misidentified species from the list, taking the tally to 159. Subsequently, Sisodia & Kshirsagar (2020) made further additions of three species, Tandan et al. (2020) added two more and Nihlani et al. (2021) added one species which resulted in 165 species of butterflies from This study reports three Chhattisgarh. additions to the butterfly fauna of Chhattisgarh, taking the count of reported butterflies from Chhattisgarh to 168.

Materials and Methods

For the present study, we selected four districts of central Chhattisgarh and carried out a random survey there for two years, from October, 2018 to December, 2020. Sites of the study were selected as Kurud (20.8304°N, 81.7084°E) Nagri (20.3484°N. and 81.9593°E) blocks in Dhamtari district, Deobhog (19.9137°N, 82.6432°E) block in Gariaband district, Kasdol (21.2514°N, 81.6296°E) block in Baloda Bazar, Abhanpur Raipur (21.0529°N, 81.7441°E) & (Dharsinwa) (21.2514° N, 81.6296°E) blocks in Raipur district.

The observation of butterflies at various sites were made by H. N. Tandan, Gulab Chand, Swati Tandan and Tanuja at Kurud, Gulshan Kumar Sahu at Nagri, Ravi Naidu and Ramanand Agrawal at Deobhog and H. N. Tandan at Kasdol. Butterflies were photographed using a Canon 1300D DSLR camera and mobile cameras (iPhone 6S, Redmi note 5, redmi note 6 pro & Samsung

galaxy M11). Field identification was made with the help of Evans (1932); Wynter Blyth (1957); Haribal (1992) & Smetacek (2017).

Observations

The three additions to the butterfly fauna of Chhattisgarh state, two of them belonging to Lycaenidae, one to the Nymphalidae, are as follows:

Family: Lycaenidae Sub Family: Polyommatinae Freyeria putli (Kollar, [1844] - Lesser Grass

Jewel (Figs. 1, 2)

Specimens Photographed: 01.vii.2020, 29.x.2020

Known Distribution: South India; Himalaya from Uttarakhand to N.E. India. (Varshney & Smetacek, 2015).

Remarks: The specimen was photographed on 24.xi.2017 during a field visit conducted by Department of Zoology, Government College, Deobhog. Subsequently it was observed by Gulab Chand and H. N. Tandan in P.G. College Campus, Kurud & Bhatagaon Nursery on 01.vii.2020 & 29.x.2020. The observations were made by Ramanand Agrawal from Deobhog, by Gulshan Kumar Sahu from Nagri, by Ravi Naidu from Bastar and other parts of Chhattisgarh. Sometimes it was observed in plenty, flying about grasslands during October and November.

Sub Family: Theclinae

Spindasis ictis (Hewitson, 1865) - Common Shot Silverline (Figs. 3, 4)

Specimens Photographed: 29.ix.2020. 10.x.2020 & 2.xii.2020

Known Distribution: Rajasthan northwards to Himachal Pradesh, eastwards to W. Bengal and southwards to Kerala (Varshney & Smetacek, 2015).

Remarks: The specimen was photographed on 29.ix.2020 by Ramanand Agrawal at his home backyard in Deobhog. Subsequently it was also observed by Ravi Naidu on 2.xii.2020 at Deobhog. The species was observed in the urban areas as well as dense forest of Tatamari forest range in the Keshkal forest division by H. N. Tandan on 10.x.2020. Spindasis ictis is known from central India, recorded from Sidhi (Chandra et al., 2000) and Umaria (Choudhary & Khan, 2002).

Family: Nymphalidae

Sub Family: Danainae

Euploea klugii Moore, [1858] – King Crow (Figs. 5, 6)

Specimen Photographed: 21.viii.2020

Known Distribution: Northern Bihar: Sikkim to N.E. India. (Varshney & Smetacek, 2015).

Remarks: The specimen was photographed on 21.viii.2020, by Ramanand Agrawal at his home backyard in Deobhog. Euploea klugii is a very widely distributed species, recorded for the first time from Madhya Pradesh (Flora et al., 2020) in central India. The state of Chhattisgarh was established in 2000 and the specimen of King Crow is reported here as a new record for the state fauna of Chhattisgarh. **Discussion and Conclusion**

During the study, a total of 83 species of butterflies belonging to 18 subfamilies placed under five families were observed and photographed from four districts of Chhattisgarh state (Table 1). Family Lycaenidae dominates with 31 species in 24 genera, followed by Nymphalidae with 26 species in 18 genera, Hesperiidae 10 species in 9 genera, Pieridae 9 species in 6 genera, and Papilionidae with 7 species in 3 genera. The present study results in three species unrecorded earlier Chhattisgarh. from Therefore, they have been added here new to the known butterfly fauna of the state.

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Table1: List of the butterflies recorded from	Dhamtari, Gariaban	d, Raipur & Baloda Bazar
Districts of Central Chhattisgarh, India. (# indi	cate new record to the	state Chhattisgarh)

S. N.	Common Name	Scientific Name	Oct.2018 to Dec. 2020, Recorded from	D	istribu	tion in	India (Varshney & Smetacek (2015))
			Dhamtari	Raipur	Gariaband	Baloda Bazar	
Family: Papilionoidae							

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Sub	family: Papilio						
1	Blue Mormon	Papilio polymnestor Cramer, 1775	+	+	+	+	Peninsular India as far north as W. Bengal and Bangladesh, to Madhya Pradesh and Gujarat.
02.	Lime Swallowtail	Papilio demoleus (Linnaeus, 1758)	+	+	+	-	Throughout India below 2000 m elevation
03.	Common Mormon	Papilio polytes (Linnaeus, 1758)	+	+	+	+	Throughout India below 2000 m elevation
04.	Common Banded Peacock	Papilio crino Fabriciu s, 1793	+	_	+	_	Peninsular India as far north as W Bengal.
05.	Tailed Jay	Graphium agamemnon (Linnaeus, 1758)	+	+	+		Uttarakhand to N.E. India; peninsular India.
06.	Common Jay	Graphium doson (C. & R. Felder, 1864)	+	+	+	+	J. & K. to N.E. India, Delhi, South India to W. Bengal
07.	Common Rose	Pachliopta aristolochiae (Fabricius, 1775)	+	-	_	_	Throughout India
	ily: Hesperiidae						
	Family: Coelia			1			
08.	Common Banded Awl	Hasora chromus (Cramer, 1780)	+	+	+	_	Throughout India and Andaman & Nicobar Islands
	Family: Hesper			1	1		
09.	Dark Palm- Dart	<i>Telicota</i> <i>bambusae</i> (M oore, 1878)	+	-	-	-	Throughout India except Rajasthan.
10.	Pale Palm- Dart	<i>Telicota</i> <i>colon</i> (Fabrici us, 1775)	+	-	_	_	Gujarat to W. Bengal and southwards to Kerala; Delhi to Uttar Pradesh; Uttarakhand to Sikkim.
11.	Grass Demon	Udaspes folus (Cramer, [1775])	+	_	+	-	Gujarat to West Bengal and south to Kerala; Himachal Pradesh to N. E. India

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12.	Restricted Demon	Notocrypta curvifascia (C . & R. Felder, 1862)	+	_	+	_	Andaman & Nicobar Is. (Andamans); Maharashtra to Kerala; Uttarakhand to N.E. India.
13.	Indian Palm Bob	<i>Suastus</i> gremius (Fabr icius, 1798)	_	_	+	-	Throughout India.
14.	Rice Swift	<i>Borbo</i> <i>cinnara</i> (Wall ace, 1866)	+	-	+	-	Throughout India except Jammu & Kashmir.
15.	Giant Redeye	<i>Gangara</i> <i>thyrsis</i> (Fabri cius, 1775)	_	-	+	-	Maharashtra to Kerala; Andhra Pradesh; Himachal Pradesh to N.E. India; Andaman & Nicobar Is
Sub	Family: Pyrgin	ae					
16.	Golden Angle	Caprona ransonnettii (R. Felder, 1868)	+	_	_	_	Gujarat east to Jharkhand and south to Kerala.
17.	Indian Skipper	<i>Spialia</i> <i>galba</i> (Fabrici us, 1793)	+	+	+	_	Throughout India.
Fami	ily: Pieridae		•				
Sub	Family: Coliad	inae					
18.	Common Emigrant	<i>Catopsilia</i> <i>pomona</i> (Fabricius, 1775)	+	+	+	+	Throughout India
19.	Mottled Emigrant	Catopsilia pyranthe (Linnaeus, 1758)	+	+	+	+	Throughout India
20.	Common Grass Yellow	<i>Eurema</i> <i>hecabe</i> (Linnaeus, 1758)	+	+	+	+	Throughout India including Andaman & Nicobar Islands
21.	Small Grass Yellow	Eurema brigitta (Stoll, [1780])	+	_	-	-	Throughout India including the Andaman and Nicobar Is
	Family: Pierina			1			
22.	Pioneer	Belenois aurota (Fabricius, 1793)	+	_	_	_	Throughout India except N.E. States

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23.	Indian Jezabel	<i>Delias</i> <i>eucharis</i> (Dru ry, 1773	+	-	+	-	Throughout India.
24.	Painted Jezabel	Delias hyparete (Lin naeus, 1758)	_	-	+	-	Sikkim to N.E. India; Odisha, Andhra Pradesh.
25.	Indian Wanderer	<i>Pareronia</i> <i>hippia</i> (Fabric ius, 1787)	+	-	+	-	Throughout India except Jammu & Kashmir, Punjab and Rajasthan.
26.	Psyche	<i>Leptosia</i> <i>nina</i> (Fabriciu s, 1793)	+	-	+	-	Throughout India east of Punjab, including the Andaman Is
	ily: Lycaenidae						
Sub	family : Curetii		•				
27.	Indian Sunbeam	<i>Curetis</i> <i>thetis</i> (Drury, [1773])	+	_	_	-	Andaman & Nicobar Is. (Kondula Island, Great and Little Nicobar). Peninsular India.
Sub	family : Miletir						
28.	Apefly	Spalgis epius (Westw ood, [1851])	+	-	+	-	Uttarakhand to N.E. India; Gujarat to Kerala and east to W. Bengal.
Sub	Family: Theclin						
29.	Large Oakblue	Arhopala amantes (Hewitson, 1862)	+	_	-	-	Gujarat to Andhra Pradesh and southwards to Kerala, Uttarakhand to Arunachal to Manipur.
30.	Indian Oakblue	Arhopala atrax (Hewits on, 1862)	+	_	_	_	Peninsular India; Jammu & Kashmir to N.E. India.
31. #	Common Shot Silverline	Spindasis ictis (Hewitso n, 1865)	_	_	+	-	Rajasthan northwards to Himachal Pradesh, eastwards to W. Bengal and southwards to Kerala.
32.	Common Silverline	<i>Spindasis</i> <i>vulcanus</i> (Fab ricius, 1775)	+	-	+	-	Throughout India.
33.	Purple Leaf Blue	<i>Amblypodia</i> <i>anita</i> Hewitso n, 1862	+	-	_	-	Andaman & Nicobar Is. (Andamans). Peninsular India,
34.	Common Guava Blue	Virachola isocrates (Fabricius, 1793)	+	-	+	-	Throughout India

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25	C	D		1		I	Sikkim to N.E. India.
35.	Common Ded Elech	Rapala	+	-	-	-	SIKKIM to IN.E. India.
	Red Flash	<i>iarbus</i> (Fabric					
36.	Yamfly	ius, 1787) Loxura					Maharashtra and Madhya
50.	1 anni y	Loxura atymnus (Stol	-	-	+	-	Pradesh to Kerala; Uttarakhand
		<i>atymnus</i> (Stol 1, 1780)					to West Bengal & N.E. India.
Cub	Eamily, Dolyon	, ,					to west bengal & N.E. India.
37.	Family: Polyon Pointed	Anthene	+				Gujarat southwards to Kerala
57.	Ciliate Blue	Anthene lycaenina (R.	т	-	-	-	and eastwards to Odisha and W.
	Cillate Dide	Felder, 1868)					Bengal; Uttarakhand to NE
		1 cluci, 1808)					India.
38.	Common	Prosotas nora	+			<u> </u>	Andaman & Nicobar Islands,
50.	Lineblue	(C. Felder.		-	-	-	throughout India except arid
		(C. 1 cluci, 1860)					regions
39.	Tailless	Prosotas	+	_	_	_	India including Andaman &
	Lineblue	dubiosa (Sem		-	_	-	Nicobar Is. (Andamans).
		per, [1879])					×
40.	Dark	Jamides	+	+	+	_	Throughout India including
	Cerulean	bochus (Stoll,					Andaman & Nicobar Islands
		[1782])					
41.	Common	Jamides	+	_	+	-	Gujarat south to Kerala and
	cerulean	celeno (Cram					eastward to West Bengal;
		er, [1775])					Uttarakhand to N.E. India.
42.	Forget-me-	Catochrysops	+	+	+	-	Throughout India including
	not	strabo (Fabric					Andaman & Nicobar Is
42	Comm	ius, 1793)				<u> </u>	Thursenhaut I. I. 1. 1. 1.
43.	Common Pierrot	Castalius	+	+	+	+	Throughout India including Andaman and Nicobar Islands.
	Pierrot	<i>rosimon</i> (Fabricius,					Anuaman and Micobar Islands.
		(Fabricius, 1775)					
44.	Angled	Caleta			+		Peninsular India; Sikkim to
	Pierrot	decidia (Hewi	-	-	Ŧ	-	N.E. India.
	1 101101	tson, 1876)					T.L. India.
45.	Small	Chilades	+		+		Rajasthan to Kerala; Uttar
	Cupid	parrhasius		-		-	Pradesh; Himachal Pradesh and
		(Fabricius,					Uttarakhand.
		1793)					
46.	Plains	Chilades	_	+	_	_	Throughout India
	Cupid	pandava (Hor					-
		sfield, [1829])					
47.	Lime Blue	Chilades lajus	+	+	+	+	Throughout India
		(Stoll, [1780])					
48.	Indian	Everes	+	_	_	-	Himachal to N.E. India, Uttar
	Cupid	lacturnus					Pradesh and Bihar, Andaman &
		(Godart,					Nicobar Islands, Gujarat
		[1824])					

							southwards to Andhra Pradesh and Kerala
49.	Pea Blue	<i>Lampides</i> <i>boeticus</i> (Lin naeus, 1767)	+	_	-	-	Throughout India including Andaman & Nicobar Is
50.	Grass Jewel	Freyeria trochylus (Fre yer, 1845)	+	+	+	_	South India, North India from Punjab to N.E. India
51. #	Lesser Grass Jewel	Freyeria putli (Kollar, [1844])	+	+	+	I	Throughout India
52.	Lesser Grass Blue	Zizina otis (Fabricius, 1787)	+	+	+	+	Throughout India, W. Bengal and Sikkim to N.E. India, Andaman & Nicobar Islands
53.	Dark Grass Blue	Zizeeria karsandra (Moore, 1865)	+	+	+	+	Throughout India, Andaman & Nicobar Islands
54.	Tiny Grass Blue	<i>Zizula</i> <i>hylax</i> (Fabrici us, 1775)	+	_	+	I	Throughout India; Andaman and Nicobar Is
55.	Gram Blue	Euchrysops cnejus (Fabricius, 1798)	+	+	+	+	Throughout India.
56.	Pale Grass Blue	Pseudozizeeri a maha (Kollar, [1844])	+	-	_	-	Throughout India.
57.	Zebra Blue	<i>Leptotes</i> <i>plinius</i> (Fabricius, 1793)	+	+	+	-	Throughout India except Jammu & Kashmir
	ily: Nymphalid						
	Family: Danair		r	1	1		
58.	Plain Tiger	Danaus chrysippus (Linnaeus, 1758)	+	+	+	+	Throughout India
59.	Common Tiger	Danaus genutia (Cramer, [1779])	+	+	+	+	Throughout India
60.	Blue Tiger	<i>Tirumala limniace</i> (Cramer, [1775])	+	+	+	+	Throughout India including Andaman & Nicobar Island and Lakshadweep

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61. #	King Crow	<i>Euploea</i> <i>klugii</i> Moore, [1858]	_	_	+	_	Uttar Pradesh; Northern Bihar; Sikkim to N.E. India. Odisha to Kerala.
62.	Common Crow	<i>Euploea core</i> (Cramer, [1780])	+	+	+	+	Throughout India, Andaman & Nicobar Islands
63.	Double- branded Crow	<i>Euploea</i> <i>sylvester</i> (Fab ricius, 1793)	+	_	-	_	Peninsular India to N.E. India.
Sub J	Family: Satyrin	iae					
64.	Common Evening Brown	<i>Melanitis leda</i> (Linnaeus, 1758)	+	+	+	+	Throughout India
65.	Common Bushbrown	<i>Mycalesis</i> <i>perseus</i> (Fabri cius, 1775)	+	_	-	_	Himachal Pradesh to N.E. India.
66.	Common Palmfly	<i>Elymnias</i> <i>hypermnestra</i> (Linnaeus, 1763)	+	_	+	_	Maharashtra to Kerala; Punjab to Odisha and N.E. India.
Sub !	Family: Limen	itidinae					
67.	Common Sailer	Neptis hylas (Linnaeus, 1758)	+	+	+	+	Andaman Island, Uttarakhand to N.E. India, Southern Nicobar Island, Gujarat, Madhya Pradesh and Jharkhand southwards to Kerala
68.	Short- banded Sailer	Phaedyma columella (Cr amer, [1780])	+	_	_	_	Gujarat eastwards to W. Bengal and southwards to Kerala. Uttarakhand to N.E. India.
69.	Common Baron	<i>Euthalia</i> <i>aconthea</i> (Cra mer, [1777])	+	+	+	+	Maharashtra to Odisha; Himachal Pradesh to Uttarakhand and Uttar .Pradesh.
70.	Baronet	Symphaedra nais (Forster, 1771)	+	+	+	+	Tamil Nadu to Gujarat and Rajasthan, eastwards to W. Bengal.
71.	Commande r	<i>Moduza</i> <i>procris</i> (Cram er, [1777])	+	-	+	+	Uttarakhand to N.E. India. Peninsular India.
72.	Grey Count	<i>Tanaecia</i> <i>lepidea</i> (Butle r, 1868)	+	-	_	_	Maharashtra eastwards to Odisha and southwards to Kerala. Uttarakhand to N.E. India.
	Family: Nympl						
73.	Peacock Pansy	Junonia almana	+	+	+	+	Throughout India

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		(Linnaeus,175 8)					
74.	Grey Pansy	Junonia atlites (Linnaeus, 1763)	+	+	+	+	Throughout India
75.	Lemon Pansy	Junonia lemonias (Linnaeus, 1758))	+	+	+	+	Sikkim to N.E. India, J&K to Uttarakhand, Rajasthan to Kerala and eastwards to Jharkhand
76.	Blue Pansy	Junonia orithya (Linnaeus, 1758)	+	+	+	+	Sikkim to N.E. India, Nicobar Islands, J. & K. to Kerala and W. Bengal
77.	Chocolate Pansy	Junonia iphita (Crame r, [1779])	+	+	+	+	Jammu & Kashmir to N.E. India.
78.	Great Eggfly	Hypolimnas bolina (Linnaeus, 1758)	+	+	+	+	Throughout India except very arid regions
79.	Danaid Eggfly	Hypolimnas misippus (Linnaeus, 1764)	+	_	+	-	Throughout India
Sub	Family: Biblidi	nae					
80.	Common Castor	Ariadne merione (Cra mer, [1777])	+	_	+	_	Gujarat to Kerala and Andhra Pradesh.
Sub	Family: Charax						
81.	Plain Tawny Rajah	Charaxes psaphon West wood, 1847	+	_	+	-	Peninsular India as far north as Gujarat; Madhya Pradesh; Odisha to N.E. India.
Sub	Family: Helico	niinae					
82.	Common Leopard	Phalanta phalantha (Dr ury, [1773])	+	_	_	-	Throughout India.
Sub	Family: Acraei	nae					
83.	Tawny Coster	Acraea violae (Fabricius, 1793)	+	+	+	+	Throughout India

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Fig.1: Freyeria putli upperside



Fig.2: Freyeria putli underside



Fig.3: Spindasis ictis underside



Fig.4: Spindasis ictis underside



Fig.5: Euploea klugii underside



Fig.6: Euploea klugii upperside