



Butterflies of Vidarbha region, Maharashtra State, central India

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The Indian sub-region hosts about 1,504 species of butterflies (Gaonkar 1996; Smetacek 1992; Kunte 2009; Roy et al. 2010) of which peninsular India hosts 351, and the Western Ghats 334. In central India, the butterfly diversity reported by D'Abreu (1931) totalled 177 species occurring in the erstwhile Central Provinces (now Madhya Pradesh, Chattisgarh & Vidarbha).

Vidarbha is the eastern region of Maharashtra State covering Nagpur division and Amravati division. It occupies 31.6% of the total area of Maharashtra. It borders the state of Madhya Pradesh to the north, Chhattisgarh to the east, the Telangana region of Andhra Pradesh to the south and Marathwada and Khandesh regions of Maharashtra to the west. No published checklist of butterfly species of Vidarbha region is known, hence, the present work was initiated.

Habitats: Vidarbha lies on the northern part of

the Deccan Plateau. Unlike the Western Ghats, there are no major hilly areas. The Satpura range lies to the north of Vidarbha in Madhya

Pradesh. The Melghat area of Amravati District is the southern offshoot of the Satpura range. Wainganga is the largest of all the Vidarbha rivers. Other major rivers that drain the Vidarbha region are the Wardha and Kanhan rivers which are all tributaries of the Godavari River. To the north, five small rivers, namely Khandu, Khapra, Sipna, Gadga and Dolar along with Purna, are the tributaries of the Tapti River.

From the administrative point of view, Vidarbha comprises 11 districts namely, Amravati, Akola, Bhandara, Buldhana, Chandrapur, Gadchiroli, Gondia, Nagpur, Wardha, Washim and Yavatmal.

Forest type: The forests are well distributed over all the agro-climatic zones. The forest types found in the area are classified as sub-tropical hill forests, tropical moist deciduous forests, tropical dry deciduous forests and lush green deciduous forests (Champion & Seth 1968), which are home to a variety of flora and fauna. All Maharashtra's tiger reserves are located in Vidarbha. They are Melghat Tiger Reserve in Amravati District, Tadoba Andhari Tiger Reserve in Chandrapur District and Pench Tiger Reserve in Nagpur District.

Climatic conditions: Vidarbha has three main seasons: the wet Monsoon and post-Monsoon season from June to October, the cool dry winter from October to March and the hot dry season from April till the onset of rains. The temperature of Vidarbha ranges from a minimum of 12-25°C to a maximum of 30-48°C with relative humidity varying from 10-15% to 60-95%. Annual precipitation is 1700mm 90% of the precipitation falls in four months, i.e. from June to September (Tiple 2009).

History of butterfly surveys in Central India: In central India, the butterfly diversity was reported earlier by Forsayeth (1884), Swinhoe (1886), Betham (1890, 1891), and Witt (1909). Subsequent works include several species from Madhya Pradesh and Chhattisgarh (Evans 1932; Talbot 1939, 1947; Wynter-Blyth 1957). D'Abreu (1931) documented a total of 177 species occurring in the erstwhile central provinces including Pachmari, Pench and Seoni, Nimar, Hoshangabad, Jabalpur, Burahanpur, Raipur, Bastar, Chanda and Nagpur districts (now Madhya

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Pradesh and Vidarbha). In addition to this, D'Abreu (1931) provided a special list of 92 butterfly species from Nagpur city. In the recent past, several workers have studied butterflies from urban, rural and protected areas of Vidarbha.

Pandharipande (1990) in his preliminary studies listed only 61 butterfly species in Nagpur City, representing eight families. A total of 48 species of butterflies were recorded belonging to 35 genera from Lonar Crater Lake, Buldhana District (Palot & Soniya 2003); 45 butterflies and 54 moths were reported from Pench Tiger Reserve (Maharashtra) by Singh (2004); 65 species belonging to 52 genera representing seven families from Pench Tiger Reserve, Maharashtra (Sharma & Radhakrishnan 2004); 45 species belonging to 36 genera representing eight families from Melghat Tiger Reserve (Sharma & Radhakrishnan 2005); 43 species of butterflies of 29 genera from the Tiger Reserve in Tadoba National Park, Maharashtra (Rai et al. 2006); 68 species of butterflies of 50 genera were recorded from Tadoba Andhari Tiger Reserve (Sharma & Radhakrishnan 2006); 53 species belonging to 36 genera representing seven families from Lonar Wildlife Sanctuary, Buldhana District (Sharma 2008); 53 species of butterflies were recorded from Pohara Malkhed Reserve Forest, Amravati District by Kasambe & Wadatkar (2004); 52 species of butterflies belonging to five families (22 species to Nymphalidae, 12 to Lycaenidae, 10 to Pieridae, 5 to Papilionidae and 3 species to Hesperidae) were reported from Amravati University Campus, Maharashtra (Tiple et al. 2006, 2007); 51 butterfly species were recorded belonging to seven families from Melghat Tiger Reserve, Maharashtra (Chandrakar et al. 2007); 101 species of butterflies of eight families and 19 subfamilies were recorded (22 species of Nymphalidae, 6 of Danaidae, 10 of Satyridae, 23 of Lycaenidae, 1 of Riodinidae, 16 of Pieridae, 9 of Papilionidae, and 14 species of Hesperidae) from Melghat Tiger Reserve (Wadatkar & Kasambe 2009); 103 species of butterflies belonging to eight families and 19 subfamilies were recorded from Melghat Tiger Reserve (Wadatkar 2008); and 98 species of butterflies belonging to Papilionidae (06 species), Pieridae (14 species), Nymphalidae (39 species), Lycaenidae (24 species) and Hesperidae (15 species) in reserve forest area, Seminary Hill, Nagpur city (Tiple & Khurad 2009b).

Recently, Tiple & Khurad (2009a) reported 145

species of butterflies recorded at eight study sites, of which 62 species were new records for Nagpur City. The highest number of butterflies recorded belonged to the family Nymphalidae (51 species) with 17 new records, followed by Lycaenidae (46 species) with 29 new records, Hesperidae (22 species) with 14 new records, Pieridae (17 species) with four new records and Papilionidae (9 species).

The compilation of all these studies in Vidarbha region and stray records resulted in the enumeration of 167 species of butterflies belonging to 90 genera representing five families and is given in Table 1. The highest number of butterflies recorded belonged to the Nymphalidae (50 species), followed by Lycaenidae (47 species), Hesperidae (34 species), Pieridae (23 species) and Papilionidae (13 species). All scientific names follow reports by Varshney (1983); Kunte (2000) and common English names are after Wynter-Blyth (1957). Continuous exploration in Vidarbha region could add many more new records for the region.

Among the 167 butterflies recorded from Vidarbha region, 14 species come under the protected category of the Indian Wildlife (Protection) Act, 1972. Among them *Pachliopta hector* and *Hypolimnas misippus* come under Schedule I of the Act. The species recorded which come under Schedule II are *Hypolimnas misippus*, *Eurema andersonii*, *Appias albina*, *Tanaecia lepidea*, *Spindasis elima*, *Melanitis zitenius*, *Euchrysops cnejus*, *Ionolyce helicon* and *Lampides boeticus*. The species recorded which come under Schedule IV are *Appias libythea*, *Tarucus ananda*, *Baoris farri*, *Euploea core* (Kunte 2000; Gupta & Mondal 2005).

Interestingly, some butterflies (*Graphium antiphates*, *Papilio crino*, *Ypthima avanta*, *Everes argiades* and *Hasora chabrona*) which were recorded earlier by D'Abreu (1931) from Vidarbha (Nagpur city) were not seen in recent years. The probable causes of this could be the loss of habitats by ever expanding urbanization along with the broader climatic changes (Tiple et al. 2007). During the last decade, the city has expanded twice in its circumference causing loss of natural habitats of butterflies. Urban development is expected to have a deleterious impact on butterfly populations, if only because the construction of buildings and concrete replaces or reduces the area of natural and semi-natural habitats. The quality of residual habitats may also be adversely affected by

Table 1. List of butterflies recorded from Vidarbha region

Sno	Common name	Scientific name	Distribution
Papilionidae (13)			
1	Tailed Jay	<i>Graphium agamemnon</i> (Linnaeus)	Common throughout Vidarbha
2	Common Jay	<i>Graphium doson</i> (C. & R. Felder)	Nagpur and Amravati (D'Abreu 1931; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
3	Spot Swordtail	<i>Graphium nomius</i> (Esper)	Common throughout Vidarbha
4	Common Bluebottle	<i>Graphium sarpedon</i> (Linnaeus)	Nagpur and Amravati (D'Abreu 1931; Chandrakar et al. 2007; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
5	Common Rose	<i>Pachliopta aristolochiae</i> (Fabricius)	Common throughout Vidarbha
6	Crimson Rose	<i>Pachliopta hector</i> (Linnaeus)*	Common throughout Vidarbha
7	Malabar Rose	<i>Pachliopta pandiyana</i> Moore	Amravati, Melghat (Chandrakar et al. 2007)
8	Fivebar Swordtail	<i>Graphium antiphates</i> (Cramer)	Nagpur (D'Abreu 1931)
9	Common Mime	<i>Papilio clytia</i> (Linnaeus)	Nagpur, Pench National Park (Sharma & Radhakrishan 2004)
10	Lime	<i>Papilio demoleus</i> Linnaeus	Common throughout Vidarbha
11	Blue Mormon	<i>Papilio polymnestor</i> Cramer	Nagpur, Chandrapur Tadoba National Park (Tiple & Khurad 2009a; A. Tiple pers. obs.)
12	Common Mormon	<i>Papilio polytes</i> Linnaeus	Common throughout Vidarbha
13	Common Banded Peacock	<i>Papilio crino</i> Fabricius	Nagpur (D'Abreu 1931)
Pieridae (23)			
14	Pioneer	<i>Anaphaeis aurota</i> (Fabricius)	Common throughout Vidarbha
15	Common Albatross	<i>Appias albina</i> (Boisduval)*	Nagpur, Amravati (Sharma & Radhakrishan 2004; Sharma & Radhakrishan 2005; Tiple & Khurad 2009a)
16	Eastern Striped Albatross	<i>Appias libythea</i> (Fabricius)*	Nagpur (Tiple & Khurad 2009a)
17	Lemon Emigrant	<i>Catopsilia pomona</i> (Fabricius)	Common throughout Vidarbha
18	Mottled Emigrant	<i>Catopsilia pyranthe</i> (Linnaeus)	Common throughout Vidarbha
19	Common Gull	<i>Cepora nerissa</i> (Fabricius)	Common throughout Vidarbha
20	Small Salmon Arab	<i>Colotis amata</i> (Butler)	Nagpur, Buldana (D'Abreu 1931, Sharma 2008)
21	Crimson Tip	<i>Colotis danae</i> (Fabricius)	Nagpur, Amravati & Buldana, (D'Abreu 1931; Chandrakar et al. 2007; Sharma 2008; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009;)
22	Small Orange Tip	<i>Colotis etrida</i> (Boisduval)	Nagpur, Amravati, Buldana (D'Abreu 1931; Sharma & Radhakrishan 2004; Sharma 2008; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
23	Plain Orange Tip	<i>Colotis eucharis</i> (Fabricius)	Buldana (Sharma 2008)
24	Large Salmon Arab	<i>Colotis fausta</i> (Oliver)	Buldana (Sharma 2008)
25	Common Jezebel	<i>Delias eucharis</i> (Linnaeus)	Common throughout Vidarbha
26	Painted Jezebel	<i>Delias hyparete</i> (Linnaeus)	Gadchiroli (Bhamaragad forest) Tiple Personal observation.
27	One-spot Grass Yellow	<i>Eurema andersonii</i> (Moore)*	Nagpur (Tiple & Khurad 2009a)
28	Three-spot Grass Yellow	<i>Eurema blanda</i> (Boisduval)	Nagpur, Amravati, Chandrapur (Sharma & Radhakrishan 2004, 2006; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
29	Small Grass Yellow	<i>Eurema brigitta</i> (Cramer)	Common throughout Vidarbha
30	Common Grass Yellow	<i>Eurema hecabe</i> (Linnaeus)	Common throughout Vidarbha
31	Spotless Grass Yellow	<i>Eurema laeta</i> (Boisduval)	Common throughout Vidarbha
32	Great Orange Tip	<i>Hebomoea glaucippe</i> (Linnaeus)	Amravati, Melghat (Sharma & Radhakrishan 2005; Wadatkar & Kasambe 2009)
33	White Orange Tip	<i>Ixias marianne</i> (Cramer)	Nagpur, Amravati, Chandrapur (D'Abreu 1931; Sharma & Radhakrishan 2004, 2005, 2006; Tiple et al. 2007; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
34	Yellow Orange Tip	<i>Ixias pyrene</i> (Linnaeus)	Nagpur and Amravati (Sharma & Radhakrishan 2005, 2006; Chandrakar et al. 2007; Tiple et al. 2007; Wadatkar & Kasambe 2009; Tiple & Khurad 2009a)

Sno	Common name	Scientific name	Distribution
35	Psyche	<i>Leptosia nina</i> (Fabricius)	Buldana (Sharma 2008)
36	Common Wanderer	<i>Pareronia valeria</i> (Cramer)	Nagpur, Amravati, Buldana, Chandrapur (Sharma & Radhakrishan 2005, 2006; Chandrakar et al. 2007; Tiple et al. 2007; Wadatkar & Kasambe 2009; Sharma 2008; Tiple & Khurad 2009a)
Nymphalidae (50)			
37	Plain Tiger	<i>Danaus chrysippus</i> (Linnaeus)	Common throughout Vidarbha
38	Striped Tiger	<i>Danaus genutia</i> (Cramer)	Common throughout Vidarbha
39	Glassy Tiger	<i>Parantica aglea</i> (Stoll)	Nagpur, Amravati (Sharma & Radhakrishan 2005; Tiple et al. 2006; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
40	Blue Tiger	<i>Tirumala limniace</i> (Cramer)	Common throughout the Vidarbha
41	Dark Blue Tiger	<i>Tirumala septentrionis</i> (Butler)	Nagpur, Amravati, Buldana (D'Abreu 1931; Sharma 2008; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
42	Common Indian Crow	<i>Euploea core</i> (Cramer)*	Common throughout Vidarbha
43	Brown King Crow	<i>Euploea klugii</i> Moore	Nagpur (Tiple & Khurad 2009a)
44	Bamboo Treebrown	<i>Lethe europa</i> (Fabricius)	Nagpur, Amravati (D'Abreu 1931; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
45	Common Treebrown	<i>Lethe rohria</i> (Fabricius)	Nagpur, Amravati (D'Abreu 1931; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
46	Dark Branded Bushbrown	<i>Mycalesis mineus</i> (Linnaeus)	Common throughout Vidarbha
47	Common Bushbrown	<i>Mycalesis perseus</i> (Fabricius)	Common throughout Vidarbha
48	Tamil Bushbrown	<i>Mycalesis subdita</i> (Moore)	Nagpur, Amravati (Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
49	Longbrand Bushbrown	<i>Mycalesis visala</i> Moore	Nagpur (Tiple & Khurad 2009a)
50	Nigger	<i>Orsotriaena medus</i> Fabricius	Nagpur (D'Abreu 1931; Tiple & Khurad 2009a)
51	Common Evening Brown	<i>Melanitis leda</i> (Linnaeus)	Common throughout Vidarbha
52	Dark Evening Brown	<i>Melanitis phedima</i> (Cramer)	Nagpur, Amravati (Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
53	Great Evening Brown	<i>Melanitis zitenius</i> (Herbst)*	Nagpur (Tiple & Khurad 2009a)
54	Common Threering	<i>Ypthima asterope</i> (Klug)	Nagpur, Amravati, Buldana, Chandrapur (D'Abreu 1931; Sharma & Radhakrishan 2004, 2006; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
55	Lesser Threering	<i>Ypthima inica</i> (Hewitson)	Nagpur (Tiple & Khurad 2009a)
56	Common Four Ring	<i>Ypthima huebneri</i> Kirby	Nagpur, Amravati, Bhandara, Chandrapur (D'Abreu 1931; Sharma & Radhakrishan 2004, 2005, 2006; Sharma 2008; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
57	Jewel Fourring	<i>Ypthima avanta</i> Moore	Nagpur (D'Abreu 1931)
58	Common Fivering	<i>Ypthima baldus</i> (Fabricius)	Nagpur, Chandrapur (Tiple & Khurad 2009a; Sharma & Radhakrishan 2006)
59	Tawny Rajah	<i>Charaxes psaphon</i> Westwood	Nagpur and Amravati (D'Abreu 1931; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
60	Black Rajah	<i>Charaxes solon</i> (Fabricius)	Nagpur, Amravati, Chandrapur (D'Abreu 1931; Sharma & Radhakrishan 2006; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
61	Common Nawab	<i>Polyura athamas</i> (Drury)	Nagpur, Amravati, Chandrapur, Buldana (D'Abreu 1931; Sharma & Radhakrishan 2006; Sharma 2008; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
62	Anomalous Nawab	<i>Polyura agraria</i> Swinhoe	Nagpur (Tiple & Khurad 2009a)
63	Common Baron	<i>Euthalia aconthea</i> (Cramer)	Nagpur, Amravati and Buldana, Chandrapur (Sharma & Radhakrishan 2005, 2006; Tiple et al. 2007; Chandrakar et al. 2007; Sharma 2008; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
64	Gaudy Baron	<i>Euthalia lubentina</i> (Cramer)	Nagpur, Pench National Park (Sharma & Radhakrishan 2004)
65	Baronet	<i>Symphaedra nais</i> (Forster)	Nagpur, Amravati, Buldana, Chandrapur (Sharma & Radhakrishan 2004, 2005, 2006; Tiple et al. 2007; Sharma 2008; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
66	Grey Count	<i>Tanaecia lepidea</i> (Butler)*	Bhamaragad forest in Gadchiroli (Published in local Newspaper)
67	Great Eggfly	<i>Hypolimnas bolina</i> (Linnaeus)	Common throughout Vidarbha

Sno	Common name	Scientific name	Distribution
68	Danaid Eggfly	<i>Hypolimnas misippus</i> (Linnaeus)*	Common throughout Vidarbha
69	Commander	<i>Moduza procris</i> (Cramer)	Nagpur, Amravati, Buldana, Chandrapur (D'Abreu 1931; Sharma & Radhakrishan 2004, 2005, 2006; Chandrakar et al. 2007; Tiple et al. 2007; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
70	Common Sergeant	<i>Athyma perius</i> (Linnaeus)	Nagpur, Amravati (D'Abreu 1931; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
71	Staff Sergeant	<i>Athyma selenophora</i> (Kollar)	Amravati (Wadatkar & Kasambe 2009)
72	Short Banded Sailer	<i>Neptis columella</i> (Cramer)	Nagpur (D'Abreu 1931; Tiple & Khurad 2009a)
73	Common Sailer	<i>Neptis hylas</i> (Linnaeus)	Common throughout the Vidarbha
74	Chestnut-Streaked Sailer	<i>Neptis jumbah</i> Moore	Nagpur (Tiple & Khurad 2009a)
75	Painted Lady	<i>Cynthia cardui</i> (Linnaeus)	Common throughout Vidarbha
76	Peacock Pansy	<i>Junonia almana</i> (Linnaeus)	Common throughout Vidarbha
77	Grey Pansy	<i>Junonia atlites</i> (Linnaeus)	Common throughout Vidarbha
78	Yellow Pansy	<i>Junonia hierta</i> (Fabricius)	Common throughout Vidarbha
79	Chocolate Pansy	<i>Junonia iphita</i> (Cramer)	Common throughout Vidarbha
80	Lemon Pansy	<i>Junonia lemonias</i> (Linnaeus)	Common throughout Vidarbha
81	Blue Pansy	<i>Junonia orithya</i> (Linnaeus)	Common throughout Vidarbha
82	Common Leopard	<i>Phalanta phalantha</i> (Drury)	Common throughout Vidarbha
83	Angled Castor	<i>Ariadne ariadne</i> (Linnaeus)	Common throughout Vidarbha
84	Common Castor	<i>Ariadne merione</i> (Cramer)	Common throughout Vidarbha
85	Joker	<i>Byblia ilithyia</i> (Drury)	Nagpur, Amravati, Chandrapur (Sharma & Radhakrishan 2006; Tiple et al. 2007; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
86	Tawny Coster	<i>Acraea violae</i> (Fabricius)	Common throughout Vidarbha
	Lycaenidae (48)		
87	Plum Judy	<i>Abisara echerius</i> (Stoll)	Nagpur, Amravati (D'Abreu 1931; Sharma & Radhakrishan 2005; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
88	Red Pierrot	<i>Talicauda nyseus</i> (Guérin-Ménéville)	Nagpur (D'Abreu 1931; Tiple & Khurad 2009a)
89	Common Pierrot	<i>Castalius rosimon</i> (Fabricius)	Common throughout Vidarbha
90	Dark Pierrot	<i>Tarucus ananda</i> de Nicéville *	Nagpur, Amravati (Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
91	Rounded Pierrot	<i>Tarucus nara</i> Kollar	Common throughout Vidarbha
92	Zebra Blue	<i>Leptotes plinius</i> Fabricius	Common throughout Vidarbha
93	African Babul Blue	<i>Azonus jesous</i> (Guérin-Ménéville)	Nagpur, Amravati (D'Abreu 1931; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
94	Bright Babul Blue	<i>Azonus ubaldus</i> (Stoll)	Nagpur, Buldana (Sharma 2008; Tiple & Khurad 2009a)
95	Dull Babul Blue	<i>Azonus uranus</i> Butler	Nagpur (D'Abreu 1931; Tiple & Khurad 2009a)
96	Indian Cupid	<i>Everes lacturnus</i> (Godart)	Nagpur (Tiple & Khurad 2009a)
97	Common Hedge Blue	<i>Acytolepis puspa</i> (Horsfield)	Nagpur, Amravati (D'Abreu 1931; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
98	Plain Hedge Blue	<i>Celastrina lavendularis</i> (Moore)	Nagpur, Chandrapur (Sharma & Radhakrishan 2004, 2006; Tiple & Khurad 2009a)
99	Lime Blue	<i>Chilades laius</i> (Stoll)	Common throughout Vidarbha
100	Plains Cupid	<i>Chilades pandava</i> (Horsfield)	Common throughout Vidarbha
101	Small Cupid	<i>Chilades parrhasius</i> (Butler)	Nagpur, Amravati (D'Abreu 1931; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
102	Eastern Grass Jewel	<i>Chilades putli</i> Kollar	Nagpur (Tiple & Khurad 2009a)
103	Grass Jewel	<i>Chilades trochylus</i> Freyer	Common throughout Vidarbha
104	Dark Grass Blue	<i>Zizeeria karsandra</i> (Moore)	Common throughout Vidarbha
105	Lesser Grass Blue	<i>Zizina otis</i> (Fabricius)	Common throughout Vidarbha

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106	Pale Grass Blue	<i>Pseudozizeeria maha</i> (Kollar)	Nagpur, Amravati, Chandrapur, Buldana (D'Abreau 1931; Sharma & Radhakrishan 2004, 2006; Sharma 2008; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
107	Tiny Grass Blue	<i>Zizula hylax</i> (Fabricius)	Common throughout Vidarbha
108	Gram Blue	<i>Euchrysops cnejus</i> (Fabricius)*	Common throughout Vidarbha
109	Ciliate Blue	<i>Anthene emolus</i> (Godart)	Nagpur (Tiple & Khurad 2009a)
110	Pointed Ciliate Blue	<i>Anthene lycaenina</i> (C.&R. Felder)	Nagpur (Tiple & Khurad 2009a)
111	Forget-me-Not	<i>Catochrysops strabo</i> (Fabricius)	Common throughout Vidarbha
112	Pea Blue	<i>Lampides boeticus</i> (Linnaeus)*	Common throughout Vidarbha (D'Abreau 1931 as <i>Polyommatus boeticus</i>)
113	Cerulean	<i>Jamides alecto</i> (C.&R. Felder)*	Nagpur (Tiple & Khurad 2009a)
114	Dark Cerulean	<i>Jamides bochus</i> (Stoll)	Nagpur, Chandrapur (Sharma & Radhakrishan 2004, 2006; Tiple & Khurad 2009a)
115	Common Cerulean	<i>Jamides celeno</i> (Cramer)	Common throughout Vidarbha
116	Pointed Line Blue	<i>Ionolyce helicon</i> (C.&R. Felder)*	Nagpur (Tiple & Khurad 2009a)
117	Opaque 6-Line Blue	<i>Nacaduba beroe</i> (C.&R. felder)	Nagpur (Tiple & Khurad 2009a)
118	Transparent 6-Line Blue	<i>Nacaduba kurava</i> (Moore)	Nagpur (Tiple & Khurad 2009a)
119	Dingy Line Blue	<i>Petrelaea dana</i> (de Nicéville)	Nagpur (Tiple & Khurad 2009a)
120	Tailless Line Blue	<i>Prosotas dubiosa</i> Evans	Nagpur (Tiple & Khurad 2009a)
121	Common Line Blue	<i>Prosotas nora</i> (C. Felder)	Common throughout the Vidarbha
122	Leaf Blue	<i>Amblypodia anita</i> (Hewitson)	Nagpur (Tiple & Khurad 2009a)
123	Large Oakblue	<i>Arhopala amantes</i> (Hewitson)	Nagpur, Amravati, Chandrapur (D'Abreau 1931; Sharma & Radhakrishan 2006; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
124	Western Centaur Oakblue	<i>Arhopala pseudocentaurus</i> (Doubleday)	Amravati (Wadatkar & Kasambe 2009)
125	Common Acacia Blue	<i>Surendra quercetorum</i> (Moore)	Chandrapur (Sharma & Radhakrishan 2006)
126	Scarce Shot Silverline	<i>Spindasis elima</i> Moore*	Nagpur (Tiple & Khurad 2009a)
127	Shot Silverline	<i>Spindasis ictis</i> Hewitson	Nagpur, Buldana (Sharma 2008; Tiple & Khurad 2009a)
128	Plumbeous Silverline	<i>Spindasis schistacea</i> (Moore)	Nagpur (Tiple & Khurad 2009a)
129	Common Silverline	<i>Spindasis vulcanus</i> (Fabricius)	Nagpur, Amravati (D'Abreau 1931; Sharma & Radhakrishan 2004; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
130	Common Guava Blue	<i>Virachola isocrates</i> (Fabricius)	Nagpur (Tiple & Khurad 2009a)
131	Indian Red Flash	<i>Rapala iarbus</i> (Fabricius)	Nagpur, Amravati (D'Abreau 1931; Tiple et al. 2006; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
132	Slate Flash	<i>Rapala manea</i> (Hewitson)	Nagpur, Amravati (D'Abreau 1931; Tiple et al. 2006; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
	Hesperiidae (34)		
133	Common Banded Awl	<i>Hasora chromus</i> (Cramer)	Nagpur, Chandrapur, Amravati (Sharma & Radhakrishan 2004, 2006; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
134	Common Awl	<i>Hasora badra</i> (Moore)	Amravati (Sharma & Radhakrishan 2005)
135	White Banded Awl	<i>Hasora taminatus</i> Hubner	Nagpur (D'Abreau 1931; Tiple & Khurad 2009a)
136	Plain Banded Awl	<i>Hasora vitta</i> (Butler)	Nagpur (D'Abreau 1931)
137	Brown Awl	<i>Badamia exclamationis</i> (Fabricius)	Nagpur, Amravati, Chandrapur (A. Tiple pers. obs.; Sharma & Radhakrishan 2004, 2006; Tiple et al. 2007; Wadatkar & Kasambe 2009)
138	Common Spotted Flat	<i>Celaenorrhinus leucocera</i> (Kollar)	Nagpur, Amravati (D'Abreau 1931; Wadatkar & Kasambe 2009)
139	Multi-spotted Flat	<i>Celaenorrhinus pulomaya</i> (Moore)	Pench National Park (A. Tiple pers. obs.)
140	Fulvous Pied Flat	<i>Pseudocoladenia dan</i> (Fabricius)	Nagpur (Tiple & Khurad 2009a)
141	Tricolour Pied Flat	<i>Coladenia indrani</i> (Moore)	Nagpur (Sharma & Radhakrishan 2004)
142	Spotted Small Flat	<i>Sarangesa purendra</i> Moore	Amravati (Wadatkar & Kasambe 2009)
143	Golden Angle	<i>Caprona ransonnetti</i> (C.&R. Felder)	Nagpur (Tiple & Khurad 2009a)
144	Indian Skipper	<i>Spialia galba</i> (Fabricius)	Common throughout Vidarbha

Sno	Common name	Scientific name	Distribution
145	Bush Hopper	<i>Ampittia dioscorides</i> (Fabricius)	Nagpur, Amravati (D'Abreau 1931; Wadatkar & Kasambe 2009)
146	Grass Demon	<i>Udaspes folus</i> (Cramer)	Nagpur, Amravati, Chandrapur (Sharma & Radhakrishan 2004; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
147	Vindhyan Bob	<i>Arnetta vindhiana</i> (Moore)	Amravati (Wadatkar & Kasambe 2009)
148	Chestnut Bob	<i>Iambrix salsala</i> (Moore)	Nagpur, Amravati (D'Abreau 1931; Wadatkar & Kasambe 2009)
149	Indian Palm Bob	<i>Suastus gremius</i> (Fabricius)	Nagpur, Amravati, Chandrapur, Buldana (D'Abreau 1931; Sharma & Radhakrishan 2006; Tiple et al. 2007; Sharma 2008; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
150	Common Redeye	<i>Matapa aria</i> (Moore)	Chandrapur (Sharma & Radhakrishan 2006)
151	Tamil Grass Dart	<i>Taractrocera ceramas</i> (Hewitson)	Nagpur (Tiple & Khurad 2009a)
152	Common Grass Dart	<i>Taractrocera maeivius</i> (Fabricius)	Nagpur (D'Abreau 1931; Tiple & Khurad 2009a)
153	Indian/Common Dartlet	<i>Oriens goloides</i> (Moore)	Nagpur, Amravati, Chandrapur (D'Abreau 1931; Sharma & Radhakrishan 2006; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
154	Common Dart	<i>Potanthus pseudomaesa</i>	Nagpur Ramtek (D'Abreau 1931; A. Tiple pers. obs.)
155	Dark Palm Dart	<i>Telicota ancilla</i> (Herrich-Schäffer)	Nagpur, Chandrapur (Sharma & Radhakrishan 2004, 2006; Tiple & Khurad 2009a)
156	Pale Palm Dart	<i>Telicota colon</i> (Fabricius)	Nagpur (D'Abreau 1931; Tiple & Khurad 2009a)
157	Paintbrush Swift	<i>Baoris farri</i> (Moore)*	Nagpur (D'Abreau 1931; Tiple & Khurad 2009a)
158	Bevan's Swift	<i>Borbo bevani</i> (Moore)	Nagpur (D'Abreau 1931; Tiple & Khurad 2009a)
159	Rice Swift	<i>Borbo cinnara</i> (Wallace)	Common throughout Vidarbha
160	Conjoined Swift	<i>Pelopidas conjuncta</i> (Herrich-Schäffer)	Nagpur (Tiple & Khurad 2009a)
161	Small Branded Swift	<i>Pelopidas mathias</i> (Fabricius)	Nagpur, Amravati (D'Abreau 1931; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
162	Large Branded Swift	<i>Pelopidas subochracea</i> (Moore)	Nagpur, Chandrapur (Sharma & Radhakrishan 2004, 2006; Tiple & Khurad 2009a)
163	Contiguous Swift	<i>Polytremis lubricans</i> (Herrich-Schäffer)	Nagpur (Tiple & Khurad 2009a)
164	Straight Swift	<i>Parnara naso</i> (Bremer & Grey)	Nagpur (Tiple & Khurad 2009a)
165	Kanara Swift	<i>Caltoris canaraica</i> (Moore)	Nagpur (Tiple & Khurad 2009a)
166	Blank Swift	<i>Caltoris kumara</i> (Moore)	Nagpur, Chandrapur (Sharma & Radhakrishan 2006; Tiple & Khurad 2009a)

* protected under Indian Wild Life (Protection) Act 1972

Table 2. Unusual records for the Vidarbha region

Common Name	Scientific Name	Distributions
Papilionidae		
Spangle	<i>Papilio protenor</i> Cramer	Amravati, Melghat (Chandrakar et al. 2007)
Pieridae		
Indian Cabbage White	<i>Pieris canidia</i> (Sparrman)	Nagpur, Pench National Park (Sharma & Radhakrishan 2004)
Nymphalidae		
Yellow Rajah	<i>Charaxes marmax</i> Westwood	Nagpur City (Tiple & Khurad 2009a)
Banded Treebrown	<i>Lethe confusa</i> Aurivillius	Amravati Melghat (Chandrakar et al. 2007; Wadatkar & Kasambe 2009)
Whiteline Bushbrown	<i>Mycalesis malsara</i> (Moore)	Nagpur City, Amravati Melghat (D'Abreau 1931; Tiple & Khurad 2009a; Wadatkar & Kasambe 2009)
Lycaenidae		
Tailed Cupid	<i>Everes argiades</i> (Pallas)	Nagpur (D'Abreau 1931). This is probably misidentified, since <i>E. argiades</i> is a Himalayan taxon. It was probably <i>E. lacturnus</i> that D'Abreau recorded.

various forms of pollutants (Dennis & Williams 1986; Tiple & Khurad 2009b).

Some authors have reported rather unusual records for the region. These reports were checked and found to be based on sightings and field identifications. Since it appeared that these reports could possibly be based on misidentified butterflies, it was thought better to include these species in a separate table (Table 2) pending confirmation of their presence in the study area. Table 2 therefore contains unsubstantiated new records for the region which have been reported in the literature.

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