

Chapter - 4

**DIVERSITY AND
DISTRIBUTION OF
BUTTERFLIES**

4.1. Methodology used

To study the diversity and distribution of butterflies selected observation sites (Table 3.1) covering all the four bio-geographic zones were visited in a phased manner during five years study periods (2008-2012) and data related to above-mentioned aspects were collected. Identification of butterflies was done mostly in the field using standard literature and a comprehensive list was prepared.

4.2. Results and discussion

During the last five years of study period (2008-2012), a good number of butterflies from 16 districts of West Bengal representing four bio-geographic provinces were encountered (as listed in Table 4.1). In the list, those species marked with 'RE' denotes that reported for the first time from West Bengal.

A total of 330 species of butterflies belonging to 174 genera, 25 sub-families, and six families under two super-families were recorded. Out of these 330 species, 33 belong to family Papilionidae (swallowtails), 34 to family Pieridae (whites and yellows), 90 to family Lycaenidae (blues), 3 to family Riodinidae (metal-marks), 112 to family Nymphalidae (brush-footed), and 58 to family Hesperidae (skippers). Out of these 174 genera, 4 belong to family Papilionidae, 17 to family Pieridae, 55 to family Lycaenidae, 2 to family Riodinidae, 51 to family Nymphalidae, and 45 to family Hesperidae. Genus *Papilio* of family Papilionidae is the largest genus having 16 species. Genus *Graphium* of family Papilionidae and genus *Neptis* of family Nymphalidae have the second highest count, both comprised of 11 species each. The number of species belonging to other genera varied from 1-8. The results of the present study indicate that Nymphalidae is the dominant family. Similar pattern of predominance of Nymphalid butterflies was also reported by various researches from different habitats/bio-geographic provinces of India (Mathew and Rahamathulla 1993, Kunte 1997, Kunte *et al.* 1999, Arun 2000, Devi and Davidar 2001, Eswaran and Promod 2005, Kumar *et al.* 2007, Dolia *et al.* 2008, Krishnakumar *et al.* 2008, Tiple and Khurad 2009, Chowdhury and Soren 2011, Murugesan *et al.* 2013, Kumar and Mattu 2014, Nair *et al.* 2014). A higher richness of Nymphalid species indicates high host plant richness (Majumder *et al.* 2012). Members of the family Nymphalidae were always dominant in the tropical region because most of the species are polyphagous in nature and have large wingspans

that may help them to obtain resources from all habitats (Eswaran and Promod 2005, Padhye *et al.* 2006, Krishnakumar *et al.* 2008, Raut and Pendharkar 2010).

Distributions of different butterfly species in four bio-geographic zones were different. Their distribution was restricted in a single province to more than one province depending on their capability of ecological adaptation. The Lower Gangetic Plain (7B) was the species rich province having total count of 294, followed by Central Himalaya (2C) – 145 species, Chotta Nagpur (6B) – 88 species, and East Coast (8E) – 86 species (Fig. 4.1). The species encountered in the present context remain consistent with the records of the butterfly species from different parts of Indian subcontinent (Koh and Sodhi 2004, Sodhi *et al.* 2010). Earlier 320 species were recorded from Pakistan (Roberts 2001), 600 species from Nepal (Smith 2006), 670 species from Bhutan (Singh and Chib 2015), 427 species from Bangladesh (Larsen 2004), and 299 species identified from Nilgiris (Gunathilagaraj *et al.* 1998). India alone sustains a bewildering variety of 1501 butterfly species (Gaonkar 1996). The tropical monsoon climate of the region shows little temperature fluctuation between seasons but huge differences in rainfall (Sengupta *et al.* 2014). This tropical climate along with variance in topography and habitat types support and nurture an array of herbs and shrubs that serves as larval host plants for majority of the butterfly fauna. The abundance of tropical butterflies at local or regional scales is linked to the availability of larval host plants (Gutiérrez and Menéndez 1995, Cowley *et al.* 2001b, Öckinger *et al.* 2009, Nimbalkar *et al.* 2011) and has been shown to be sensitive to seasonal changes in rainfall as well as other climatic conditions (Barby 1995, Hill *et al.* 2003, Bhusan and Khanal 2008).

A total of 33 butterflies from four families (Pieridae – 2, Lycaenidae – 15, Nymphalidae – 3 and HesperIIDae – 13) were recorded for the first time from West Bengal (range extension) as depicted in Table 4.1, These were *Eurema andersoni*, *Pontia daplidice*, *Arhopala perimuta*, *Arhopala fulla*, *Arhopala paramuta*, *Flos Adriana*, *Flos asoka*, *Dacalana cotys*, *Sinthus nasaka*, *Bindahara phocides*, *Rapala tara*, *Spindasis nipalicus*, *Tarucus ananda*, *Nacaduba berenice plumbeomicans*, *Prosotas aluta coelestis*, *Catochrysops panormus*, *Chilades parrhasius*, *Charaxes kahruha*, *Neptis magadha*, *Neptis nashona*, *Hasora anura*, *Hasora badra*, *Coladenia agni*, *Gerosis phisara*, *Sebastonyma dolopia*, *Halpe zema*, *Arnetta atkinsoni*, *Zographetus ogygia*, *Baracus vittatus*, *Ochus subvittatus*, *Psolos fuligo*, *Aeromachus*

pygmaeus, and *Lotongus sarala*. Most of them were recorded from the Protected Areas in bio-geographic province of Lower Gangetic Plain (from districts like Jalpaiguri and Cooch Behar). Insect diversity of these areas is poorly documented. Many of these butterflies are crepuscular and usually remain active in dense forests; therefore, remain unnoticed till date. During last two decades, only a single butterfly was added to the checklist of West Bengal, however, several range extension reports were made from Western Himalaya (Smetacek 2011), Eastern Himalaya (Kunte 2010, Rai *et al.* 2012), western Assam (Choudhury 2010), Western Ghats (Goa) (Rangnekar and Dharwadkar 2009), Eastern Ghats (Nair 2011), and southern Mizoram (Kunte 2009).

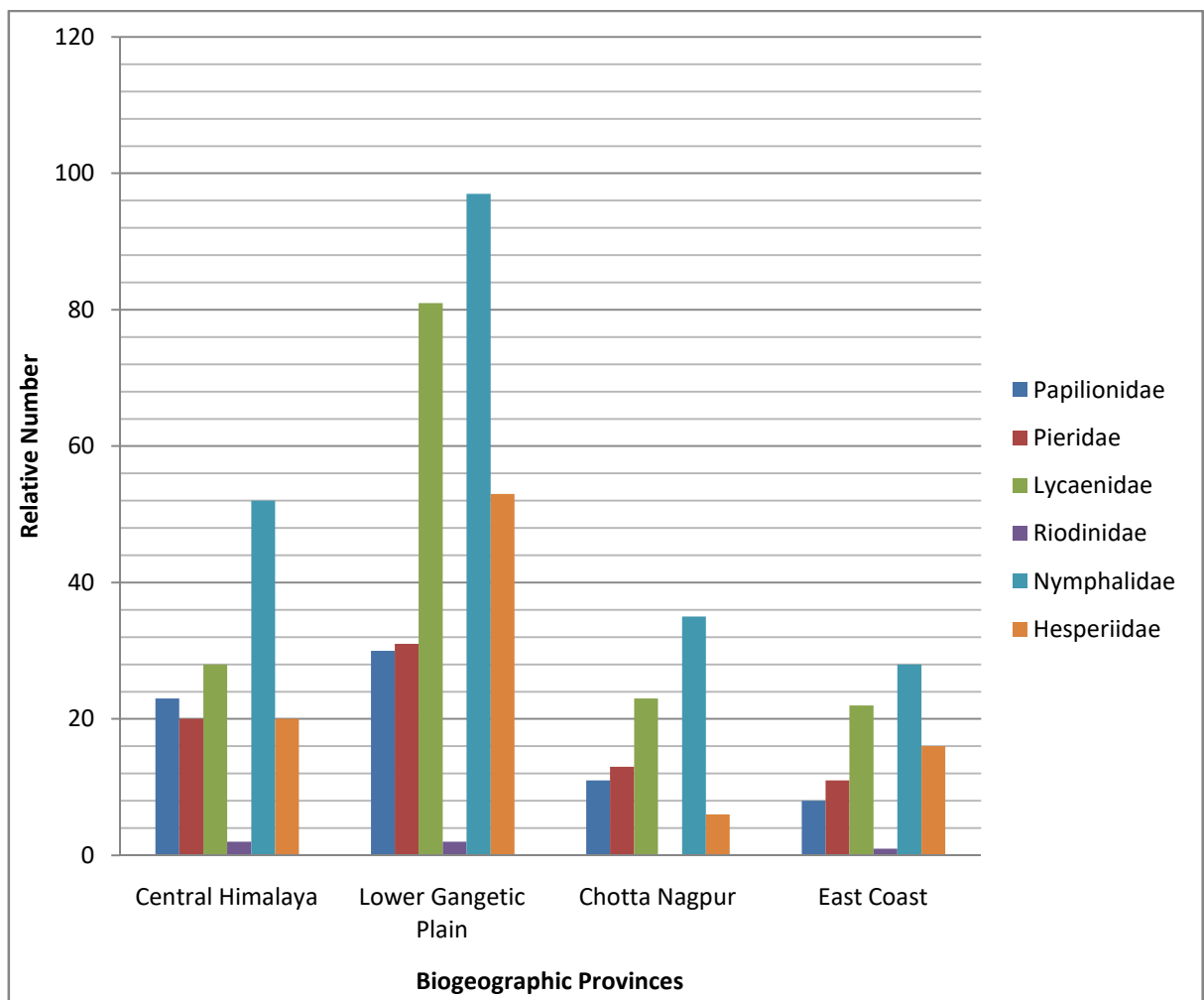


Figure 4.1. Family-wise distribution of butterflies in different bio-geographic provinces of West Bengal

Table 4.1. Annotated checklist of butterflies of West Bengal based on bio-geographic zones along with their conservation status (Abbreviation used: 2C=Central Himalaya, 6B=Chotta Nagpur, 7B=Lower Gangetic Plain, 8B=East Coast, RE=Range Extension; Symbol used: '✕'= confirmed record)

	Species	Common Name	Distribution as per Biogeographic Zones				Status in Wild Life (Protection) Act, 1972	Remarks
			2C	6B	7B	8B		
A. Super-family: Papilionoidea Latreille, 1802								
I. Family: Papilionidae Latreille, 1802								
a. Sub-family: Papilioninae Latreille, 1802								
1	<i>Graphium cloanthus</i> (Westwood, 1841)	Glassy Bluebottle	✕		✕			
2	<i>Graphium sarpedon</i> (Linnaeus, 1758)	Common Bluebottle	✕		✕			
3	<i>Graphium doson</i> (C. & R. Felder, 1864)	Common Jay		✕	✕	✕		
4	<i>Graphium chironides</i> (Honrath, 1884)	Veined Jay			✕			
5	<i>Graphium agamemnon</i> (Linnaeus, 1758)	Tailed Jay		✕	✕	✕		
6	<i>Graphium antiphates</i> (Cramer, [1775])	Five-bar Swordtail	✕	✕	✕			
7	<i>Graphium eurous</i> (Leech, [1893])	Six-bar Swordtail	✕		✕			
8	<i>Graphium nomius</i> (Esper, 1799)	Spot Swordtail		✕	✕			
9	<i>Graphium aristeus</i> (Stoll, [1780])	Chain Swordtail			✕		Sch. II Part II	
10	<i>Graphium macareus</i> (Godart, 1819)	Lesser Zebra	✕		✕			
11	<i>Graphium xenocles</i> (Doubleday, 1842)	Great Zebra	✕					
12	<i>Papilio agestor</i> Gray, 1831	Tawny Mime	✕		✕			
13	<i>Papilio epycides</i> Hewitson, 1864	Lesser Mime	✕				Sch. II Part II	
14	<i>Papilio clytia</i> Linnaeus, 1758	Common Mime		✕	✕	✕		

15	<i>Papilio polytes</i> Linnaeus, 1758	Common Mormon	✘	✘	✘	✘		
16	<i>Papilio castor</i> Westwood, 1842	Common Raven	✘		✘			
17	<i>Papilio helenus</i> Linnaeus, 1758	Red Helen	✘		✘			
18	<i>Papilio nephelus</i> Boisduval, 1845	Yellow Helen	✘		✘			
19	<i>Papilio memnon</i> Linnaeus, 1758	Great Mormon	✘		✘			
20	<i>Papilio polymnestor</i> Cramer, [1775]	Blue Mormon		✘	✘	✘		
21	<i>Papilio protenor</i> Cramer, [1775]	Spangle	✘		✘			
22	<i>Papilio alcmenor</i> C. & R. Felder, [1864]	Redbreast	✘		✘			
23	<i>Papilio bootes</i> Westwood, 1842	Tailed Redbreast	✘		✘		Sch. II Part II	
24	<i>Papilio demoleus</i> Linnaeus, 1758	Lime Butterfly		✘	✘	✘		
25	<i>Papilio paris</i> Linnaeus, 1758	Paris Peacock	✘		✘			
26	<i>Papilio polyctor</i> Boisduval, 1836	Common Peacock	✘		✘			
27	<i>Papilio crino</i> Fabricius, 1793	Common Banded Peacock		✘	✘			
28	<i>Atrophaneura polyeuctes</i> (Doubleday, 1842)	Common Windmill	✘		✘			
29	<i>Atrophaneura dasarada</i> (Moore, 1857)	Great Windmill	✘					
30	<i>Atrophaneura varuna</i> (White, 1842)	Common Batwing	✘		✘			
31	<i>Atrophaneura aristolochiae</i> (Fabricius, 1775)	Common Rose	✘	✘	✘	✘		
32	<i>Atrophaneura hector</i> (Linnaeus, 1758)	Crimson Rose		✘	✘	✘	Sch. I Part IV	
33	<i>Troides helena</i> (Linnaeus, 1758)	Common Birdwing	✘		✘			
II. Family: Pieridae Swainson, 1820								
a. Sub-family: Coliadinae Swainson, 1821								
34	<i>Eurema andersoni</i> (Moore, 1886)	One-spot Grass Yellow			✘			RE
35	<i>Eurema hecabe</i> (Linnaeus, 1758)	Common Grass Yellow		✘	✘	✘		
36	<i>Eurema blanda</i> (Boisduval, 1836)	Three-spot Grass Yellow		✘	✘	✘		

37	<i>Eurema brigitta</i> (Stoll, [1780])	Small Grass Yellow	✘		✘			
38	<i>Eurema laeta</i> (Boisduval, 1836)	Spotless Grass Yellow		✘	✘			
39	<i>Gandaca harina</i> (Horsfield, [1829])	Tree Yellow			✘			
40	<i>Dercas verhuelli</i> (Hoeven, 1839)	Tailed Sulphur	✘		✘			
41	<i>Catopsilia pomona</i> (Fabricius, 1775)	Common Emigrant	✘	✘	✘	✘		
42	<i>Catopsilia pyranthe</i> (Linnaeus, 1758)	Mottled Emigrant	✘	✘	✘	✘		
43	<i>Colias fieldii</i> Ménétriés, 1855	Dark Clouded Yellow	✘					
b. Sub-family: Pierinae Swainson, 1820								
44	<i>Colotis amata</i> (Fabricius, 1775)	Small Salmon Arab				✘		
45	<i>Ixias marianne</i> (Cramer, [1779])	White Orange-tip		✘	✘			
46	<i>Ixias pyrene</i> (Linnaeus, 1764)	Yellow Orange-tip		✘	✘	✘		
47	<i>Hebomoia glaucippe</i> (Linnaeus, 1758)	Great Orange-tip	✘		✘			
48	<i>Pareronia valeria</i> (Cramer, [1776])	Common Wanderer		✘	✘	✘		
49	<i>Appias libythea</i> (Fabricius, 1775)	Striped Albatross	✘	✘	✘	✘	Sch. IV	
50	<i>Appias lyncida</i> (Cramer, [1777])	Chocolate Albatross	✘		✘			
51	<i>Appias albina</i> (Boisduval, 1836)	Common Albatross	✘		✘		Sch. II Part II	
52	<i>Appias indra</i> (Moore, 1857)	Plain Puffin	✘		✘			
53	<i>Appias lalage</i> (Doubleday, 1842)	Spot Puffin	✘		✘			
54	<i>Pieris canidia</i> (Linnaeus, 1768)	Indian Cabbage White	✘		✘			
55	<i>Pontia daplidice</i> (Linnaeus, 1758)	Bath White	✘		✘			RE
56	<i>Cepora nerissa</i> (Fabricius, 1775)	Common Gull	✘	✘	✘	✘		
57	<i>Cepora nadina</i> (Lucas, 1852)	Lesser Gull	✘		✘			
58	<i>Prioneris thestylis</i> (Doubleday, 1842)	Spotted Sawtooth	✘		✘		Sch. IV	
59	<i>Prioneris clemanthe</i> (Doubleday, 1846)	Red-spot Sawtooth			✘			

60	<i>Delias belladonna</i> (Fabricius, 1793)	Hill Jezebel	✘					
61	<i>Delias pasithoe</i> (Linnaeus, 1767)	Red-base Jezebel			✘			
62	<i>Delias acalis</i> (Godart, 1819)	Red-breast Jezebel	✘		✘			
63	<i>Delias descombesi</i> (Boisduval, 1836)	Red-spot Jezebel	✘		✘			
64	<i>Delias hyparete</i> (Linnaeus, 1758)	Painted Jezebel	✘		✘			
65	<i>Delias eucharis</i> (Drury, 1773)	Common Jezebel		✘	✘	✘		
66	<i>Leptosia nina</i> (Fabricius, 1793)	Psyche		✘	✘	✘		
67	<i>Belenois aurota</i> (Fabricius, 1793)	Pioneer		✘	✘			
III. Family: Lycaenidae Leech, 1815								
a. Sub-family: Poritiinae Doherty, 1886								
68	<i>Poritia hewitsoni</i> Moore, [1866]	Common Gem	✘		✘		Sch. II Part II	
b. Sub-family: Miletinae Reuter, 1896								
69	<i>Spalgis epius</i> (Westwood, [1851])	Apefly			✘	✘		
c. Sub-family: Curetinae Distant, 1884								
70	<i>Curetis thetis</i> (Drury, [1773])	Indian Sunbeam			✘	✘		
71	<i>Curetis bulis</i> (Westwood, 1852)	Bright Sunbeam	✘		✘			
72	<i>Curetis acuta</i> Moore, 1877	Angled Sunbeam	✘		✘			
d. Sub-family: Theclinae Swainson, 1830								
73	<i>Arhopala pseudocentaurus</i> (Doubleday, 1847)	Western Centaur Oakblue	✘		✘			
74	<i>Arhopala amantes</i> (Hewitson, 1862)	Large Oakblue		✘	✘			
75	<i>Arhopala perimuta</i> (Moore, [1858])	Yellow-disc Tailless Oakblue			✘			RE
76	<i>Arhopala rama</i> (Kollar, [1844])	Dark Himalayan Oakblue			✘			
77	<i>Arhopala eumolphus</i> (Cramer, [1780])	Green Oakblue	✘		✘			
78	<i>Arhopala atrax</i> (Hewitson, 1862)	Indian Oakblue			✘			

79	<i>Arhopala fulla</i> (Hewitson, 1862)	Spotless Oakblue			✘		Sch. II Part II	RE
80	<i>Arhopala paramuta</i> (de Nicéville, [1884])	Hooked Oakblue	✘					RE
81	<i>Mahathala ameria</i> (Hewitson, 1862)	Falcate Oakblue			✘	✘	Sch. II Part II	
82	<i>Flos adriana</i> (de Nicéville, [1884])	Variiegated Plushblue			✘			RE
83	<i>Flos asoka</i> (de Nicéville, [1884])	Spangled Plushblue			✘			RE
84	<i>Flos chinensis</i> (C. & R. Felder, [1865])	Chinese Plushblue	✘					
85	<i>Surendra quercetorum</i> (Moore, [1858])	Common Acacia Blue	✘		✘			
86	<i>Amblypodia anita</i> Hewitson, 1862	Leaf Blue		✘	✘			
87	<i>Iraota timoleon</i> (Stoll, 1790)	Silverstreak Blue			✘			
88	<i>Loxura atymnus</i> (Stoll, [1780])	Yamfly			✘	✘		
89	<i>Horaga onyx</i> (Moore, [1858])	Common Onyx			✘		Sch. II Part II	
90	<i>Rathinda amor</i> (Fabricius, 1775)	Monkey Puzzle			✘	✘		
91	<i>Ticherra acte</i> (Moore, [1858])	Blue Imperial	✘		✘			
92	<i>Cheritra freja</i> (Fabricius, 1793)	Common Imperial	✘		✘			
93	<i>Dacalana cotys</i> (Hewitson, 1865)	White-banded Royal	✘		✘			RE
94	<i>Creon cleobis</i> (Godart, [1824])	Broadtail Royal			✘			
95	<i>Tajuria jehana</i> Moore, [1884]	Plains Blue Royal			✘			
96	<i>Tajuria cippus</i> (Fabricius, 1798)	Peacock Royal		✘	✘	✘	Sch. II Part II	
97	<i>Remelana jangala</i> (Horsfield, [1829])	Chocolate Royal			✘			
98	<i>Hypolycaena erylus</i> (Godart, [1824])	Common Tit	✘	✘	✘			
99	<i>Zeltus amasa</i> (Hewitson, 1865)	Fluffy Tit			✘			
100	<i>Chliaria kina</i> (Hewitson, 1869)	Blue Tit	✘				Sch. II Part II	
101	<i>Chliaria othona</i> (Hewitson, 1865)	Orchid Tit			✘		Sch. I Part IV	
102	<i>Deudorix isocrates</i> (Fabricius, 1793)	Common Guava Blue			✘			

103	<i>Sinthusa nasaka</i> (Horsfield, [1829])	Narrow Spark	✘		✘		Sch. II Part II	RE
104	<i>Sinthusa chandrana</i> (Moore, 1882)	Broad Spark	✘					
105	<i>Bindahara phocides</i> (Fabricius, 1793)	Plane	✘				Sch. II Part II	RE
106	<i>Rapala pheretima</i> (Hewitson, 1863)	Copper Flash	✘	✘	✘			
107	<i>Rapala iarbus</i> (Fabricius, 1787)	Common Red Flash		✘	✘			
108	<i>Rapala manea</i> (Hewitson, 1863)	Slate Flash		✘	✘	✘		
109	<i>Rapala varuna</i> (Horsfield, [1829])	Indigo Flash			✘	✘	Sch. II Part II	
110	<i>Rapala buxaria</i> de Nicéville, [1889]	Shot Flash	✘				Sch. II Part II	
111	<i>Rapala tara</i> de Nicéville, [1889]	Assam Flash			✘			RE
112	<i>Rapala nissa</i> (Kollar, [1844])	Common Flash			✘			
113	<i>Catapaecilma elegans</i> (Druce, 1873)	Common Tinsel	✘		✘			
114	<i>Acupicta lohita</i> (Horsfield, [1829])	Long-banded Silverline	✘		✘		Sch. II Part II	
115	<i>Acupicta syama</i> (Horsfield, [1829])	Club Silverline			✘			
116	<i>Cigaritis vulcanus</i> (Fabricius, 1775)	Common Silverline		✘	✘	✘		
117	<i>Cigaritis ictis</i> (Hewitson, 1865)	Common Shot Silverline			✘			
118	<i>Spindasis nipalicus</i> Moore, 1884	Silver-grey Silverline			✘		Sch. II Part II	RE
e. Sub-family: Lycaeninae Leech, 1815								
119	<i>Heliophorus epicles</i> (Godart, [1824])	Purple Sapphire	✘		✘			
f. Sub-family: Polyommatinae Swainson, 1827								
120	<i>Anthene emolus</i> (Godart, [1824])	Common Ciliate Blue			✘	✘		
121	<i>Anthene lycaenina</i> (R. Felder, 1868)	Pointed Ciliate Blue			✘		Sch. II Part II	
122	<i>Caleta elna</i> (Hewitson, [1876])	Elbowed Pierrot			✘			
123	<i>Castalius rosimon</i> (Fabricius, 1775)	Common Pierrot		✘	✘	✘		
124	<i>Tarucus nara</i> (Kollar, 1848)	Striped or Rounded Pierrot		✘	✘			

125	<i>Tarucus ananda</i> (de Nicéville, [1884])	Dark Pierrot			✘		Sch. IV	RE
126	<i>Talicerca nyseus</i> (Guérin-Ménéville, 1843)	Red Pierrot			✘			
127	<i>Leptotes plinius</i> (Fabricius, 1793)	Zebra Blue		✘	✘	✘		
128	<i>Petrelaea dana</i> (de Nicéville, [1884])	Dingy Lineblue			✘			
129	<i>Nacaduba kurava</i> (Moore, [1858])	Transparent Six-Lineblue			✘			
130	<i>Nacaduba beroe</i> (C. & R. Felder, [1865])	Opaque Six-Lineblue	✘		✘			
131	<i>Nacaduba berenice plumbeomicans</i> (Wood-Mason & de Nicéville, 1880)	Rounded Six-Lineblue			✘			RE
132	<i>Prosotas aluta coelestis</i> (Wood-Mason & de Nicéville, [1887])	Banded Lineblue			✘		Sch. II Part II	RE
133	<i>Prosotas nora</i> (Felder, 1860)	Common Lineblue			✘	✘		
134	<i>Prosotas dubiosa indica</i> (Evans, [1925])	Tailless Lineblue			✘			
135	<i>Prosotas bhutea</i> (de Nicéville, [1884])	Bhutyia Lineblue			✘			
136	<i>Jamides bochus</i> (Stoll, [1782])	Dark Cerulean	✘		✘			
137	<i>Jamides celeno</i> (Cramer, [1775])	Common Cerulean			✘	✘		
138	<i>Jamides alecto</i> (C. Felder, 1860)	Metallic Cerulean	✘		✘			
139	<i>Catochrysops panormus</i> (C. Felder, 1860)	Silver Forget-me-not			✘			RE
140	<i>Catochrysops strabo</i> (Fabricius, 1793)	Forget-me-not		✘	✘	✘		
141	<i>Lampides boeticus</i> (Linnaeus, 1767)	Pea Blue	✘		✘	✘	Sch. II Part II	
142	<i>Zizzeria karsandra</i> (Moore, 1865)	Dark Grass Blue		✘	✘	✘		
143	<i>Pseudozizeeria maha</i> (Kollar, [1844])	Pale Grass Blue		✘	✘	✘		
144	<i>Zizina otis</i> (Fabricius, 1787)	Lesser Grass Blue	✘		✘			
145	<i>Zizula hylax</i> (Fabricius, 1775)	Tiny Grass Blue		✘	✘	✘		
146	<i>Chilades putli</i> (Kollar, [1844])	Eastern Grass Jewel		✘				
147	<i>Azanus ubaldus</i> (Stoll, [1782])	Bright Blue Blue			✘			

148	<i>Megisba malaya</i> (Horsfield, [1828])	Malayan	✕		✕			
149	<i>Neopithecops zalmora</i> (Butler, [1870])	Quaker		✕	✕	✕		
150	<i>Euchrysops cnejus</i> (Fabricius, 1798)	Gram Blue		✕	✕	✕	Sch. II Part II	
151	<i>Chilades lajus</i> (Stoll, [1780])	Lime Blue		✕	✕	✕		
152	<i>Everes lacturnus</i> (Godart, [1824])	Indian Cupid		✕				
153	<i>Chilades pandava</i> (Horsfield, [1829])	Plains Cupid		✕	✕			
154	<i>Chilades parrhasius</i> (Fabricius, 1793)	Small Cupid		✕				RE
155	<i>Acytolepis puspa</i> (Horsfield, [1828])	Common Hedge Blue		✕	✕			
156	<i>Celastrina lavendularis</i> (Moore, 1877)	Plain Hedge Blue	✕		✕			
157	<i>Udara albocaerulea</i> (Moore, 1879)	Albocerulean			✕		Sch. II Part II	
IV. Family: Riodinidae Grote, 1895								
a. Sub-family: Nemeobiinae Bates, 1868								
158	<i>Abisara fylla</i> (Westwood, 1851)	Dark Judy	✕					
159	<i>Abisara echerius</i> (Stoll, 1790)	Plum Judy			✕	✕		
160	<i>Zemerus flegyas</i> (Cramer, [1780])	Punchinello	✕		✕			
V. Family: Nymphalidae Swainson, 1827								
a. Sub-family: Libytheinae Boisduval, 1832								
161	<i>Libythea lepita</i> Moore, [1858]	Common Beak			✕			
162	<i>Libythea myrrha</i> Godart, 1819	Club Beak	✕		✕			
b. Sub-family: Danainae Boisduval, 1832								
163	<i>Tirumala limniace</i> (Cramer, [1775])	Blue Tiger	✕	✕	✕	✕		
164	<i>Tirumala septentrionis</i> (Butler, 1874)	Dark Blue Tiger	✕		✕			
165	<i>Danaus genutia</i> (Cramer, [1779])	Striped Tiger		✕	✕	✕		
166	<i>Danaus chrysippus</i> (Linnaeus, 1758)	Plain Tiger		✕	✕	✕		

167	<i>Danaus melanippus</i> (Cramer, [1777])	White Tiger				✘		
168	<i>Parantica aglea</i> (Stoll, [1782])	Glassy Tiger	✘	✘	✘			
169	<i>Parantica sita</i> (Kollar, [1844])	Chestnut Tiger	✘		✘			
170	<i>Parantica melaneus</i> (Cramer, [1775])	Chocolate Tiger	✘		✘			
171	<i>Euploea sylvester</i> (Fabricius, 1793)	Double-branded Crow			✘			
172	<i>Euploea mulciber</i> (Cramer, [1777])	Striped Blue Crow	✘		✘		Sch. IV	
173	<i>Euploea algea</i> (Godart, 1819)	Long-branded Blue Crow			✘			
174	<i>Euploea radamanthus</i> (Fabricius, 1793)	Magpie Crow			✘			
175	<i>Euploea klugii kollari</i> C. & R. Felder, [1865]	Brown King Crow		✘	✘	✘		
176	<i>Euploea core</i> (Cramer, [1780])	Common Crow		✘	✘	✘		
c. Sub-family: Charaxinae Guenée, 1865								
177	<i>Polyura athamas</i> (Drury, [1773])	Common Nawab		✘	✘			
178	<i>Polyura dolon</i> (Westwood, 1847)	Stately Nawab	✘				Sch. II Part II	
179	<i>Polyura eudamippus</i> (Doubleday, 1843)	Great Nawab	✘		✘			
180	<i>Charaxes bernardus</i> (Fabricius, 1793)	Tawny Rajah		✘	✘			
181	<i>Charaxes aristogiton</i> C. & R. Felder, [1867]	Scarce Tawny Rajah			✘		Sch. II Part II	
182	<i>Charaxes kahruba</i> (Moore, [1895])	Variiegated Rajah	✘		✘		Sch. II Part II	RE
183	<i>Charaxes marmax</i> Westwood, 1847	Yellow Rajah			✘		Sch. II Part II	
184	<i>Charaxes solon</i> (Fabricius, 1793)	Black Rajah		✘	✘	✘		
d. Sub-family: Morphinae Newman, 1834								
185	<i>Discophora sondaica</i> Boisduval, 1836	Common Duffer			✘			
186	<i>Thaumantis diores</i> Doubleday, 1845	Jungle Glory	✘					
e. Sub-family: Satyrinae Boisduval, 1833								
187	<i>Melanitis leda</i> (Linnaeus, 1758)	Common Evening Brown	✘	✘	✘	✘		

188	<i>Lethe europa</i> (Fabricius, 1775)	Bamboo Treebrown		✘	✘	✘		
189	<i>Lethe confusa</i> Aurivillius, [1898]	Banded Treebrown	✘		✘			
190	<i>Lethe verma</i> (Kollar, [1844])	Straight-banded Treebrown	✘		✘			
191	<i>Elymnias hypermnestra undularis</i> (Drury, 1773)	Common Palmfly		✘	✘	✘		
192	<i>Elymnias vasudeva</i> Moore, 1857	Jezebel Palmfly	✘		✘		Sch. II Part II	
193	<i>Elymnias malelas</i> (Hewitson, 1863)	Spotted Palmfly	✘		✘			
194	<i>Mycalesis anaxias</i> Hewitson, 1862	White-bar Bushbrown			✘		Sch. II Part II	
195	<i>Mycalesis perseus</i> (Fabricius, 1775)	Common Bushbrown		✘	✘	✘		
196	<i>Mycalesis mineus</i> (Linnaeus, 1758)	Dark-brand Bushbrown		✘	✘	✘		
197	<i>Mycalesis visala</i> Moore, [1858]	Long-brand Bushbrown			✘			
198	<i>Mycalesis malsara</i> Moore, 1857	White-line Bushbrown			✘			
199	<i>Orsotriaena medus</i> (Fabricius, 1775)	Nigger	✘		✘			
200	<i>Ypthima sakra</i> Moore, 1857	Himalayan Five-ring	✘					
201	<i>Ypthima nareda</i> (Kollar, [1844])	Large Three-ring	✘		✘			
202	<i>Ypthima huebneri</i> Kirby, 1871	Common Four-ring		✘	✘			
203	<i>Ypthima baldus</i> (Fabricius, 1775)	Common Five-ring		✘	✘	✘		
f. Sub-family: Heliconiinae Swainson, 1822								
204	<i>Acraea violae</i> (Fabricius, 1793)	Tawny Coster		✘	✘	✘		
205	<i>Acraea issoria</i> (Hübner, [1819])	Yellow Coster	✘					
206	<i>Cethosia biblis</i> (Drury, [1773])	Red Lacewing	✘		✘			
207	<i>Cethosia cyane</i> (Drury, [1773])	Leopard Lacewing	✘		✘			
208	<i>Argyreus hyperbius</i> (Linnaeus, 1763)	Indian Fritillary	✘					
209	<i>Vindula erota</i> (Fabricius, 1793)	Cruiser			✘			

210	<i>Cirrochroa aoris</i> Doubleday, [1847]	Large Yeoman	✘		✘			
211	<i>Cirrochroa tyche</i> C. & R. Felder, 1861	Common Yeoman			✘			
212	<i>Vagrans egista</i> (Cramer, [1780])	Vagrant			✘			
213	<i>Phalanta phalantha</i> (Drury, [1773])	Common Leopard		✘	✘	✘		
g. Sub-family: Limenitidinae Behr, 1864								
214	<i>Moduza procris</i> (Cramer, [1777])	Commander		✘	✘			
215	<i>Auzakia danava</i> (Moore, [1858])	Commodore			✘		Sch. II Part II	
216	<i>Athyma perius</i> (Linnaeus, 1758)	Common Sergeant		✘	✘			
217	<i>Athyma ranga</i> Moore, 1857	Blackvein Sergeant			✘		Sch. II Part II	
218	<i>Athyma selenophora</i> (Kollar, [1844])	Staff Sergeant			✘			
219	<i>Athyma cama</i> Moore, [1858]	Orange Staff Sergeant	✘		✘			
220	<i>Athyma nefte</i> (Cramer, [1780])	Colour Sergeant	✘		✘			
221	<i>Pantoporia hordonia</i> (Stoll, [1790])	Common Lascar	✘		✘			
222	<i>Lasippa viraja</i> (Moore, 1872)	Yellowjack Sailer			✘			
223	<i>Neptis miah</i> Moore, 1857	Small Yellow Sailer			✘			
224	<i>Neptis ananta</i> Moore, 1858	Yellow Sailer			✘		Sch. II Part II	
225	<i>Neptis hylas</i> (Linnaeus, 1758)	Common Sailer		✘	✘	✘		
226	<i>Neptis jumbah</i> Moore, [1858]	Chestnut-streaked Sailer		✘	✘	✘		
227	<i>Phaedyma columella</i> (Cramer, [1780])	Short-banded Sailer		✘	✘	✘		
228	<i>Neptis clinia</i> Moore, 1872	Clear Sailer	✘		✘			
229	<i>Neptis soma</i> Moore, 1858	Sullied Sailer	✘		✘		Sch. II Part II	
230	<i>Neptis magadha</i> C. & R. Felder, [1867]	Spotted Sailer			✘			RE
231	<i>Neptis yerburyi</i> Butler, 1886	Yerbury's Sailer	✘		✘			
232	<i>Neptis nashona</i> Swinhoe, 1896	Less Rich Sailer			✘			RE

233	<i>Neptis vikasi</i> Horsfield, [1829]	Dingy Sailer	✘					
234	<i>Neptis harita</i> Moore, [1875]	Dingiest Sailer			✘			
235	<i>Lebadea martha</i> (Fabricius, 1787)	Knight			✘			
236	<i>Euthalia monina kesava</i> (Moore, 1859)	Powdered Baron			✘			
237	<i>Euthalia phemius</i> (Doubleday, [1848])	White-edged Blue Baron	✘					
238	<i>Euthalia aconthea</i> (Cramer, [1777])	Common Baron		✘	✘	✘		
239	<i>Euthalia lubentina</i> (Cramer, [1777])	Gaudy Baron	✘		✘		Sch. IV	
240	<i>Euthalia nais</i> (Forster, 1771)	Baronet		✘				
241	<i>Tanaecia lepidea</i> (Butler, 1868)	Grey Count	✘		✘		Sch. II Part II	
242	<i>Tanaecia julii</i> (Lesson, 1837)	Common Earl	✘		✘			
243	<i>Tanaecia jahnu</i> (Moore, [1858])	Plain Earl	✘		✘			
h. Sub-family: Cyrestinae Guenée, 1865								
244	<i>Cyrestis thyodamas</i> Boisduval, 1846	Common Map	✘		✘			
245	<i>Chersonesia risa</i> (Doubleday, [1848])	Common Maplet	✘		✘			
246	<i>Pseudergolis wedah</i> (Kollar, 1844)	Tabby	✘		✘			
247	<i>Dichorhagia nesimachus</i> (Doyère, [1840])	Constable			✘			
248	<i>Stibochiona nicea</i> (Gray, 1846)	Popinjay	✘					
i. Sub-family: Biblidinae Boisduval, 1833								
249	<i>Ariadne ariadne</i> (Linnaeus, 1763)	Angled Castor		✘	✘	✘		
250	<i>Ariadne merione</i> (Cramer, [1777])	Common Castor		✘	✘	✘		
j. Sub-family: Apaturinae Boisduval, 1840								
251	<i>Apatura chevana</i> Moore, [1866]	Sergeant Emperor			✘		Sch. II Part II	
252	<i>Apatura ambica</i> Kollar, [1844]	Indian Purple Emperor	✘		✘			
253	<i>Rohana parisatis</i> (Westwood, 1850)	Black Prince	✘		✘			

254	<i>Euripus nyctelius</i> (Doubleday, 1845)	Courtesan			✘		Sch. II Part II	
255	<i>Hestina nama</i> (Doubleday, 1844)	Circe	✘		✘			
256	<i>Sephisa chandra</i> (Moore, [1858])	Eastern Courtier	✘				Sch. I Part IV	
k. Sub-family: Nymphalinae Swainson, 1827								
257	<i>Symbrenthia hypselis</i> (Godart, [1824])	Himalayan Jester	✘					
258	<i>Symbrenthia hippoclus</i> (Cramer, [1779])	Common Jester	✘		✘			
259	<i>Vanessa indica</i> (Herbst, 1794)	Indian Red Admiral	✘		✘			
260	<i>Vanessa cardui</i> (Linnaeus, 1758)	Painted Lady	✘		✘			
261	<i>Nymphalis caschmirensis</i> (Kollar, [1844])	Indian Tortoiseshell	✘					
262	<i>Junonia orithya</i> (Linnaeus, 1758)	Blue Pansy		✘	✘	✘		
263	<i>Junonia hierta</i> (Fabricius, 1798)	Yellow Pansy		✘	✘	✘		
264	<i>Junonia iphita</i> (Cramer, [1779])	Chocolate Pansy		✘	✘			
265	<i>Junonia lemonias</i> (Linnaeus, 1758)	Lemon Pansy	✘	✘	✘	✘		
266	<i>Junonia almana</i> (Linnaeus, 1758)	Peacock Pansy		✘	✘	✘		
267	<i>Junonia atlites</i> (Linnaeus, 1763)	Grey Pansy		✘	✘	✘		
268	<i>Hypolimnas bolina</i> (Linnaeus, 1758)	Great Eggfly		✘	✘	✘		
269	<i>Hypolimnas misippus</i> (Linnaeus, 1764)	Danaid Eggfly		✘	✘	✘	Sch. I Part IV	
270	<i>Kallima inachus</i> (Boisduval, 1864)	Orange Oakleaf	✘		✘			
271	<i>Doleschallia bisaltide</i> (Cramer, [1777])	Autumn Leaf	✘		✘			
I. Sub-family: Calinaginae Moore, 1857								
272	<i>Calinaga buddha</i> Moore, 1857	Freak	✘				Sch. I Part IV	
B. Super-family: Hesperoidea Latreille, 1809								
I. Family: Hesperiiidae Latreille, 1809								
a. Sub-family: Coeliadinae Evans, 1937								

273	<i>Bibasis jaina</i> (Moore, [1866])	Orange Awlet	✘					
274	<i>Bibasis sena</i> (Moore, [1866])	Orange-tail Awl	✘		✘		Sch. II Part II	
275	<i>Hasora anura</i> de Nicéville, 1889	Slate Awl			✘			RE
276	<i>Hasora chromus</i> (Cramer, [1780])	Common Banded Awl			✘			
277	<i>Hasora badra</i> (Moore, [1858])	Common Awl	✘		✘			RE
278	<i>Badamia exclamationis</i> (Fabricius, 1775)	Brown Awl			✘	✘		
279	<i>Choaspes benjaminii</i> (Guérin-Méneville, 1843)	Indian Awlking	✘		✘			
b. Sub-family: Pyrginae Burmeister, 1878								
280	<i>Celaenorrhinus leucocera</i> (Kollar, [1844])	Common Spotted Flat	✘		✘			
281	<i>Spialia galba</i> (Fabricius, 1793)	Indian Skipper		✘	✘			
282	<i>Sarangesa dasahara</i> Moore, [1866]	Common Small Flat	✘		✘			
283	<i>Pseudocoladenia dan</i> (Fabricius, 1787)	Fulvous Pied Flat	✘		✘			
284	<i>Coladenia indrani</i> (Moore, [1866])	Tricoloured Pied Flat			✘			
285	<i>Coladenia agni</i> (de Nicéville, [1884])	Brown Pied Flat			✘			RE
286	<i>Gerosis bhagava</i> (Moore, [1866])	Common Yellow-breasted Flat			✘			
287	<i>Gerosis phisara</i> (Moore, 1884)	Dusky Yellow-breasted Flat			✘			RE
288	<i>Tagiades gana</i> (Moore, [1866])	Suffused Snow Flat	✘		✘			
289	<i>Tagiades japetus ravi</i> (Moore, [1866])	Common Snow Flat		✘	✘	✘		
290	<i>Tagiades litigiosa litigiosa</i> Möschler, 1878	Water Snow Flat			✘			
291	<i>Tagiades menaka menaka</i> (Moore, [1866])	Spotted Snow Flat	✘		✘			
292	<i>Odontoptilum angulata</i> (Felder, 1862)	Chestnut Angle			✘			
293	<i>Caprona ransonnetii</i> (R. Felder, 1868)	Golden Angle		✘	✘			
294	<i>Ctenoptilum vasava</i> (Moore, [1886])	Tawny Angle	✘		✘			
295	<i>Mooreana trichoneura</i> (C. & R. Felder, 1860)	Yellow Flat			✘			

c. Sub-family: Hesperinae Latreille, 1809								
296	<i>Taractrocera maevius</i> (Fabricius, 1793)	Common Grass Dart			✘			
297	<i>Oriens goloides</i> (Moore, 1881)	Common Dartlet			✘	✘		
298	<i>Telicota bambusae</i> (Moore, 1878)	Dark Palm Dart		✘	✘	✘		
299	<i>Telicota colon</i> (Fabricius, 1775)	Pale Palm Dart			✘	✘		
300	<i>Cephrenes chrysozona oceanica</i> (Mabille, 1904)	Bengal or Plain Palm Dart			✘			
301	<i>Parnara guttatus</i> (Bremer & Grey, [1852])	Straight Swift	✘		✘			
302	<i>Borbo cinnara</i> (Wallace, 1866)	Rice Swift		✘	✘	✘		
303	<i>Pelopidas mathias</i> (Fabricius, 1798)	Small Branded Swift	✘		✘	✘		
304	<i>Pelopidas subochracea</i> (Moore, 1878)	Large Branded Swift	✘		✘		Sch. IV	
305	<i>Pelopidas assamensis</i> (de Nicéville, 1882)	Great Swift	✘		✘		Sch. IV	
306	<i>Pelopidas conjuncta</i> (Herrich-Schäffer, 1869)	Conjoined Swift			✘			
307	<i>Polytremis eltola</i> (Hewitson, 1869)	Yellow-spot Swift	✘					
308	<i>Baoris farri</i> (Moore, 1878)	Paintbrush Swift			✘	✘	Sch. IV	
309	<i>Caltoris kumara</i> (Moore, 1878)	Blank Swift			✘			
310	<i>Sebastonyma dolopia</i> (Hewitson, 1868)	Tufted Ace	✘					RE
311	<i>Halpe zema</i> (Hewitson, 1877)	Banded Ace	✘					RE
312	<i>Halpe porus</i> (Mabille, [1877])	Moore's Ace			✘	✘		
313	<i>Arnetta atkinsoni</i> (Moore, 1878)	Atkinson's Bob			✘			RE
314	<i>Suastus gremius</i> (Fabricius, 1798)	Indian Palm Bob		✘	✘	✘		
315	<i>Iambrix salsala</i> (Moore, [1866])	Chestnut Bob			✘	✘		
316	<i>Hyarotis adrastus praba</i> (Moore, [1866])	Tree Flitter			✘	✘	Sch. IV	
317	<i>Zographetus ogygia</i> (Hewitson, [1866])	Purple-spotted Flitter			✘			RE
318	<i>Gangara thyrsis</i> (Fabricius, 1775)	Giant Redeye			✘	✘		

319	<i>Matapa aria</i> (Moore, [1866])	Common Redeye			✘	✘		
320	<i>Erionota thrax</i> (Linnaeus, 1776)	Palm Redeye			✘			
321	<i>Baracus vittatus</i> (Felder, 1862)	Hedge Hopper			✘			RE
322	<i>Astictopterus jama olivascens</i> Moore, 1878	Forest Hopper			✘			
323	<i>Ochus subvittatus</i> (Moore, 1878)	Tiger Hopper			✘			RE
324	<i>Ampittia discorides</i> (Fabricius, 1793)	Bush Hopper			✘	✘		
325	<i>Psolos fuligo</i> (Mabille, 1876)	Coon			✘			RE
326	<i>Ancistroides nigrita</i> (Latreille, [1824])	Chocolate Demon	✘		✘			
327	<i>Notocrypta curvifascia</i> (C. & R. Felder, 1862)	Restricted Demon	✘		✘			
328	<i>Udaspes folus</i> (Cramer, [1775])	Grass Demon			✘	✘		
329	<i>Aeromachus pygmaeus</i> (Fabricius, 1775)	Pygmy Scrub Hopper			✘			RE
330	<i>Lotongus sarala</i> (de Nicéville, 1889)	Yellow-band Palmer	✘					RE