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Arun P. Singh

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BUTTERFLIES OF EASTERN ASSAM, INDIA

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Abstract: The paper provides information on butterflies sampled during random surveys from November 2014 to September 2016 from eight reserve forest areas and Dehing-Patkai Wildlife Sanctuary, covering three districts (Tinsukhia, Dibrugarh & Sivasagar) in the eastern part of upper Assam which form part of the Indo-Burma hotspot. The survey revealed 237 species which included 33 species listed as protected under various schedules of the Indian Wildlife (Protection) Act 1972 and 58 species that have distribution restricted to the eastern Himalaya and northeastern India in India. An annotated list of 375 species of butterflies so far recorded from eastern Assam that includes a large number of very rare species (Indian Yellow-vein Lancer *Pyronera margherita*; Grey-lined Lascar *Pantoporia dindinga assamica*; Assamese/Conjoined Lascar *Pantoporia assamica*; Bi-coloured Hedgeblue *Udara selma cerima*; Vinous Oakblue *Arhopala athada aphade*; Magnificent Oakblue *Arhopala anarte*; White Punch *Dodona henrici*; Pale Striped Dawnfly *Capilia zennara*; Andaman Yellowbanded Flat *Celaenorrhinus andamanicus hanna*; Sikkim Ace *Halpe sikkima*; Baby Swift *Polytremis minuta*; Maculate Lancer *Salanoemia sala*; Veined Palmer *Hidari bhawani*; Pallid Forester *Lethe satyavati*; Peal's Palmfly *Elymnias peali*; Blue Baron *Euthalia telchinia*; Blue Nawab *Polyura schreiber assamensis*; Tytler's Dull Oakblue *Arhopala ace arata*; Orchid Tit *Hypolycaena othona othona*; Purple Brown Tailless Oakblue *Arhopala arvina ardea*; Malayan Bushblue *Arhopala ammon ariel* and Broad-branded Brilliant *Simiskina phalena harterti*) along with their site and month of record, endemism and relative abundance status in India, is provided.

Keywords: endemic, evergreen forests, Indo-Burma Hotspot, northeastern India, protected species, rare.

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INTRODUCTION

The forests of eastern Assam in northeastern India are contiguous with forests in the northern part of Myanmar. These semi-evergreen and evergreen forests form part of the Indo-Burma global biodiversity hotspot (New & Collins 1991), at its northern limit and harbour a large number of species 'rare' and 'endemic' to this region. Forests once covered most part of Assam but today exist in small to large fragmented patches, loosely joined together in four districts of eastern Assam namely Tinsukhia, Dibrugarh, Sivasagar and part of Jorhat districts, along the state boundary with Arunachal Pradesh and Nagaland states (Fig. 1). Due to rapid urbanization and increasing population pressure in the region, however, these forests are today threatened due to habitat degradation.

At least half a dozen butterflies have been described from eastern Assam. As far back as in 1865, Hewitson described the Spotted Royal, *Tajuria maculata* (Hewitson, 1865) (Lycaenidae). This was followed by description of the White Dawnfly, *Capila pieridoides* (Moore, 1878) (Hesperiidae) then the Pallid Forester *Lethe satyavati* de Nicéville, 1881 (Nymphalidae) from Sibsagar, the Silver Spotted Lancer *Plastingia naga* (de Nicéville, [1884] (Hesperiidae), and the Blue Quaker *Pithecopis fulgens* Doherty, 1889 (Lycaenidae) and Yellow-vein Lancer *Pyronia margherita* (Doherty, 1889) (Hesperiidae) from Margherita area by Doherty. Later, Norman (1953 & 1956) recorded some 'very rare' (as per Evans 1932) species from Sivasagar District in upper Assam, i.e., Yellow-vein Lancer *P. margherita*, Veined Palmer *Hidari bhawani* de Nicéville, [1889], Broad-branded Brilliant *Simiskina phalena harterti* (Doherty, 1889), Bi-coloured Hedgeblue *Udara selma cerima* (Corbet, 1937), Wavy Maplet *Chersonesia rahrioides* Moore, [1899], Conjoined Lascar *Pantoporia assamica* (Moore, 1881), Brown Forest Bob *Scobura woolletti* (Riley, 1923), Baby Swift *Polytremis minuta* (Evans, 1926), Maculate Lancer *Salanoemia sala* (Hewitson, [1866]), Vinous Oakblue *Arhopala athada aphade* Nicéville, 1895, and *Isma* sp. Distant, 1886.

The butterfly diversity of these forests remained poorly documented until recently Karthikeyan & Venkatesh (2011) recorded a 'very rare' species generally found in Southeast Asia in Assam, the Snowy Angle *Darpa pteris* (Hewitson, 1868) between 24–29 April 2011 from Jeypore Reserve Forest, Assam. Gogoi (2013a) listed 292 species from a Jeypore-Dehing forest area in eastern Assam. This was followed by Singh et al. (2015) list of 211 species from Gibbon Wildlife Sanctuary (GWS) (a

remnant semi evergreen forest patch of 21km² existing in Jorhat District of upper Assam, adjoining Sivasagar District close to Nagaland border) and also a small pictorial booklet by Neog (2015) from the GWS covering 200 species recorded by him. Singh (2015) also reported separately a 'very rare' species, the Veined Palmer *Hidari bhawani* from Sotai in Jorhat District of Upper Assam. Besides these there are no other comprehensive records available on butterflies of eastern Assam. Most of the recent focus has remained around Namdapha Tiger Reserve, which lies 60km east of Tinsukhia District in Arunachal Pradesh State or around Kaziranga National Park and adjoining the Karbi Anglong Hills, lying west of Jorhat District (Gogoi 2013b, 2015).

STUDY AREA

The study area included eight reserve forest areas and along the road stretch inside the Dehing-Patkai Wildlife Sanctuary, covering three districts (Tinsukhia, Dibrugarh & Sivasagar) all in the eastern part of upper Assam (Figs. 1,2; Table 1; Images 1–6) situated on the border with Arunachal Pradesh and Nagaland states, between 26.96805–27.53889 N & 95.29500–95.96333 E. These reserve forests and Wildlife Sanctuary form small to large tracts of semi-evergreen and evergreen forests comprising the dominant tree *Dipterocarpus retusus* Blume (Hollong) along with *Messua ferrea* L. (Indian Rose Chestnut), *Terminalia myriocarpa* Van Heurck & Mull. Arg. (Hollock), etc., intermixed with bamboo brakes comprising *Dendrocalamus hamiltonii* Gamble; *Pseudostachyum polymorphum* Munro & Rattan Canes (*Calamus* spp.) in ravines and river banks. Numerous fresh water perennial streams and rivers (Burhi-Dehing, Dilli, Tipong, Tirap, and Namsik rivers) transgress these forest tracts in eastern Assam covering the study area, while the main river Brahmaputra forms the northern boundary of these forest ranges (Table 1; Fig. 1).

MATERIAL & METHODS

Random surveys for sampling butterflies were carried out from 18 November 2014 to 09 September 2016 (Table 1). Pollard walk methodology (Pollard 1982) was used for sampling butterflies. This was done by walking for one hour (approximately 1km) on each transect inside the forest on trails; 2–11 transects/trails were covered at each site. A total of 39 hours (approximately) of sampling was done covering 19 days spread over a

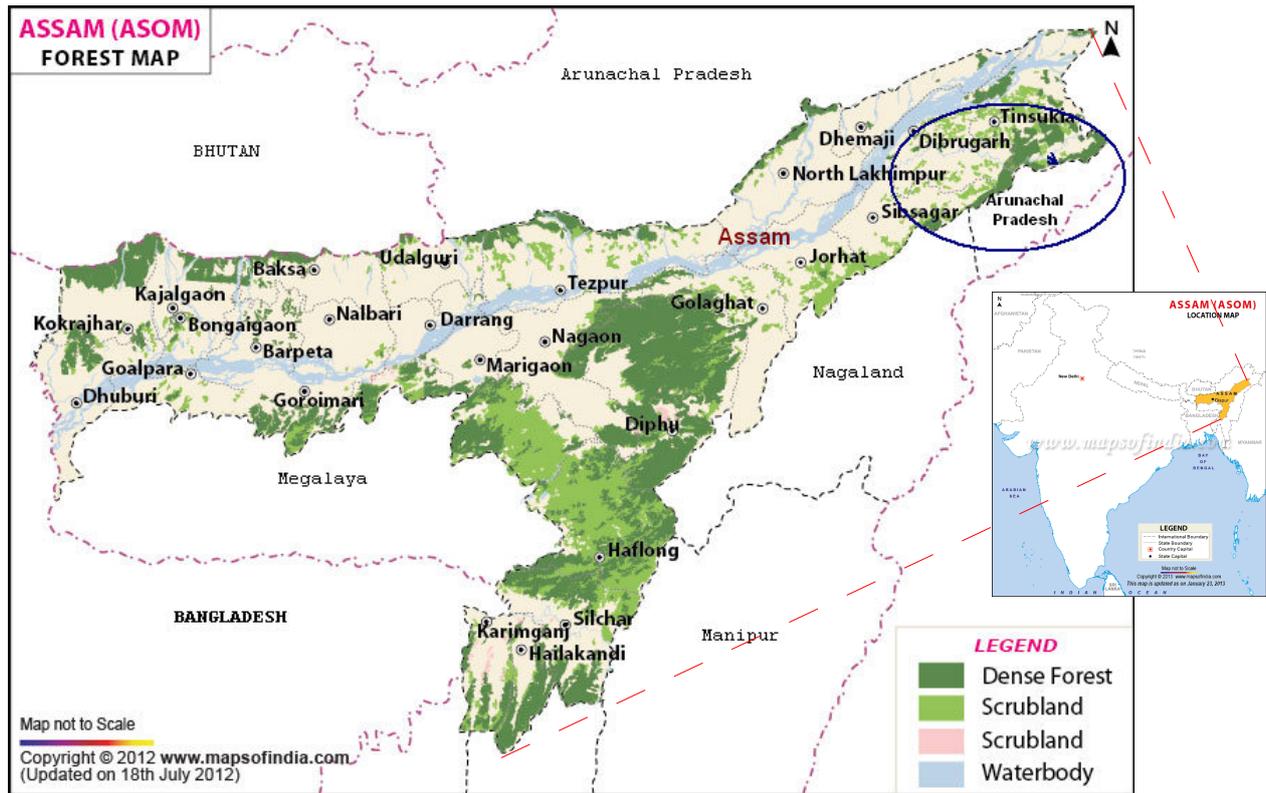


Figure 1. Forest map of Assam depicting the study area (circle).



Image 1. Tirap Reserve Forest (along the Tirap River on Arunachal Pradesh border)



Image 2. Bhorjan Reserve Forest, near Tinsukhia Town - potential site for butterfly inclusive ecotourism

five month period during most of the seasons of the year (February: mainly winter; March: spring; June: pre-monsoon/dry summer; 31 August–September: monsoon; November: winter). The altitudinal range covered varied from 85m (lowest) in Padumoni RF near the Bhramaputra River basin to as high as 471m (highest) in Tipong RF-Lekhapani RF tract, bordering Changlang District of Arunachal Pradesh.

The relative abundances of all the species sampled

were pooled and ranked from lowest to the highest. All taxa were then divided into four equal classes or categories with an equal number of species. Based on the quartile divisions of their relative abundances, all these taxa were ranked as Uncommon (Q1) = 1 individual recorded (minimum abundance); Fairly Common (Q2) = 2–3; Common (Q3) = 4–9; and Very Common (Q4) = 10–96 (maximum number of a species recorded); Median value = 3 (Table 2).

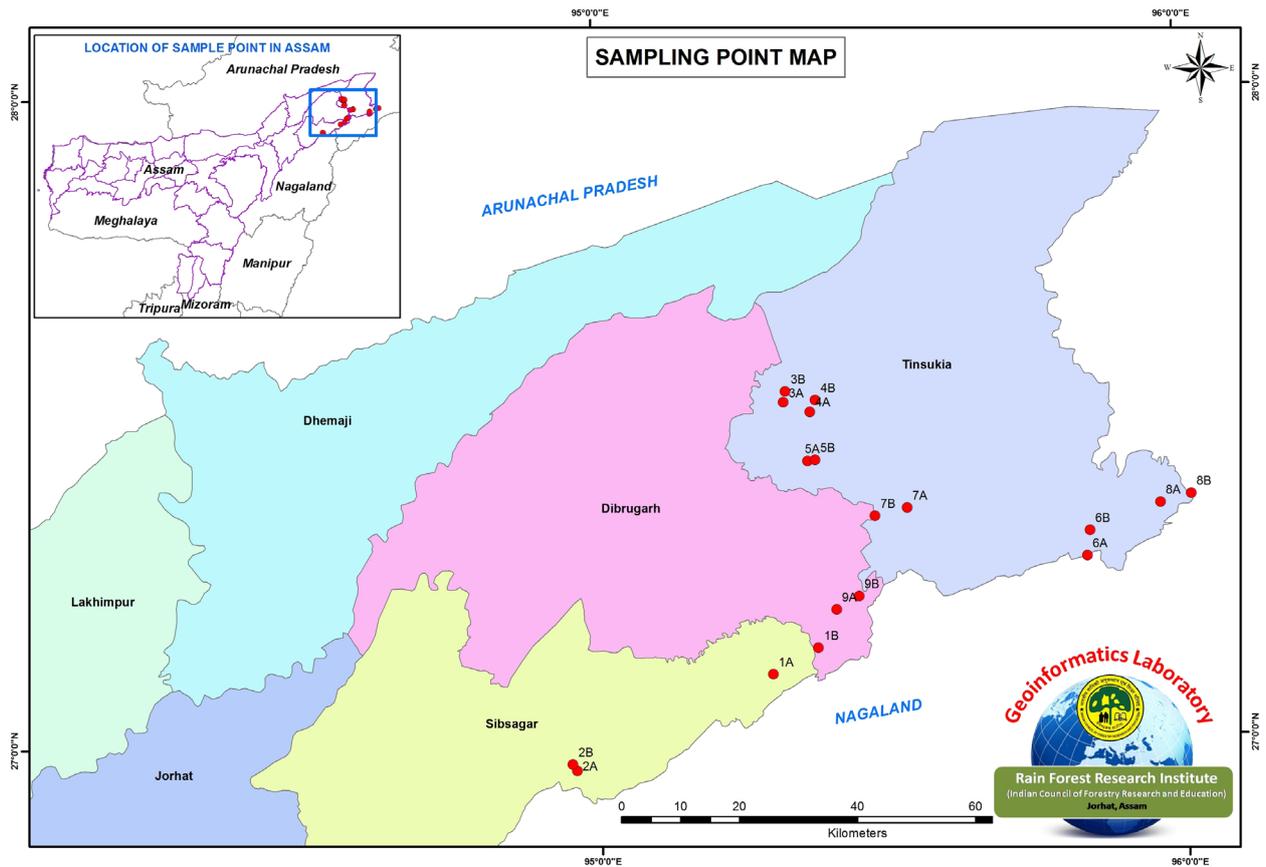


Figure 2. Map of eastern Assam depicting the location of sampling sites (site numbering as per Table 1; 'A' refers to the starting point and 'B' the ending point).

Table 1. Dates of survey and details of sampling sites in eastern Assam, India

Site no.	Sites in upper Assam	District	Sampling survey dates	Latitude (N)	Longitude (E)	Altitude (m)	Vegetation	sampling time (hours)
1	Dilli RF (Near Namrup; Dilli River).	Sibasagar/ Dibrugarh	18 & 19 Nov 2014; 16 Mar 2016	27.10388889	95.29500000	109–170	Semi-evergreen forest, cane and bamboo brakes	5
2	Abhaypur RF (Assam-Nagaland border)	Sibasagar	26 Mar 2015	27.14333333	95.37305556	354–463	Semi-evergreen forest and bamboo brakes	2
3	Padumoni RF (Near Dibrusikhowa NP-Brahmaputra River)	Tinsukhia	10 Feb 2015; 20 Mar 2016	26.95972222	94.95777778	85–97	Degraded semi-evergreen forest	4
4	Bherjan RF (Near Dibrusikhowa NP-Brahmaputra River)	Tinsukhia	10 Feb 2015; 20 Mar 2016	26.97	94.95055556	111–116	Small patch of semi-evergreen forest	2
5	Bhorjan RF (Near Tinsukhia Town)	Tinsukhia	11 Feb 2015; 19 Mar 2016; 07 Sep 2016	27.52222222	95.32083333	102–126	Semi-evergreen forest patch along the Tea Gardens	5
6	Tipong RF & Lekhapani RF (Assam-Arunachal Pradesh border; Tipong River)	Tinsukhia	17 Mar 2016; 31 Aug – 03 Sep 2016	27.53888889	95.32444444	261–470	Semi-evergreen & evergreen primary foothill forest	11
7	Dehing-Patkai Wildlife Sanctuary (Digboi-Duliajan Road)	Tinsukhia	06 Sep 2016	27.52333333	95.32111111	106–157	Semi-evergreen & evergreen forest	2
8	Tinkupani RF (Tirap & Namsik rivers on Assam-Arunachal Pradesh border)	Tinsukhia	18 Mar 2016; 05 Sep 2016	27.52444444	95.32555556	161–201	Semi-evergreen & evergreen forest with Bamboo & cane brakes	5
9	Jeypore RF (Jeypore-Deomali road on Arunachal Pradesh border; Burhi-Dehing river)	Dibrugarh	04, 05 Jun 2015	27.43111111	95.36055555	117–201	Semi-evergreen & evergreen hill forest with bamboo & cane brakes	3



Image 3. Bherjan Reserve Forest, near Tinsukhia Town - potential site for butterfly inclusive ecotourism



Image 4. Jeypore Reserve Forest with cane brakes (Jeypore-Deomali road on Assam-Arunachal Pradesh border; Burhi –Dehing river)



Image 5. Tipong Reserve Forest (Assam-Arunachal Pradesh border with Changlang District & Tipong river)



Image 6. Forest sampling site in Dehing-Patkai Wildlife Sanctuary (Digboi-Duliajan Road).

Identification of butterflies was carried out on the spot during sampling or from photographs taken in the field as the majority of the species was photographed (Images 7–43 [12–42 are endemic to northeastern India]). For identification the field guides and papers (Evans 1932; Wynter-Blyth 1957; Smith 2006; Kehimkar 2008; Singh 2011; Gogoi 2012, 2013a; Sondhi et al. 2013; Sondhi & Kunte 2014; Smetacek 2015) and web resources (<http://www.ifoundbutterflies.org/>; <http://flutters.org/>), were used. Nomenclature was followed using the website <http://www.nfic.funet.fi/pub/sci/bio/life/insecta/lepidoptera/ditrysia/papilionoidea/>

RESULTS AND DISCUSSION

A total of 237 species were recorded during the present survey. Thirty-three species amongst these (Table 2) have been listed as protected under various schedules of the Indian Wildlife (Protection) Act 1972 (Anonymous

1997) (2 under Schedule I, 29 under Schedule II, and 2 under Schedule IV) and are protected by law. Seventy-seven species recorded have distribution restricted to the eastern Himalaya and northeastern India (Table 2). Only Blue Quaker *Pithecopis fulgens*, Yellow-vein Lancer *Pyronera margherita*, Wavy Maplet *Chersonesia rahroides* and Tytler's Dull Oakblue *Arhopala ace arata* Tytler, 1915 which were recorded a long time back by Doherty (1889) & Norman (1953 & 1956) from eastern Assam, were also recorded during the present survey.

As per Evans (1932), species that are noteworthy from the point of view of conservation amongst these (Table 2) are: (i) 'Very rare' and 'endemic' species: Yellow-vein Lancer *Pyronera margherita*; (ii) 'Rare' and 'endemic' species: Yellow Fringed Swift *Caltois aurociliata* (Elwes & Edwards, 1897), Wavy Maplet *Chersonesia rahroides*, Silver Royal *Ancema blanka minturna* (Fruhstorfer, 1912), Spotted Sailer *Neptis magadha khasiana* Moore, 1872, Pallid Forester *Lethes satyavati*; Pale Wanderer *Pareronia avatar* (Moore,

[1858]), Royal Cerulean *Jamides caeruleus* (Druce, 1873), Blue Quaker *Pithecops fulgens fugens*, Grey Baron *Euthalia anosia anosia* (Moore, [1858]), Great Archduke *Lexias cyanipardus cyanipardus* (Butler, [1869]), Eastern Striped Albatross *Appias olferna* Swinhoe, 1890, Dot-dash Sergeant *Athyma kanwa phorkys* (Fruhstorfer, 1913), Wizard *Rhinopalpa polynice birmana* Fruhstorfer, 1898, Dark Velvet Bob *Koruthaiolos butleri butleri* (deNicéville, [1884]), Plain Bushbrown *Telinga malsarida* Butler, 1868, Tailed Red Forester *Lethe sinorix sinorix* (Hewitson, 1863), Chinese Bushbrown *Mycalesis gotama charaka* Moore [1875], Branded Yamfly *Yasoda tripunctata tripunctata* (Hewitson, 1863), Great Zebra *Graphium xenocles xenocles* (Doubleday, 1842), Sylhet Oakblue *Arhopala silhetensis silhetensis* (Hewitson, 1862), Unbroken Sergeant *Athyma pravara acutipennis* Fruhstorfer, 1906, Great Blue Mime *Papilio paradoxa telearchus* (Hewitson, 1852), and Watson's Bushbrown *Mycalesis adamsoni* Watson, 1897; (iii) 'Not rare' and 'endemic' species: Tufted Ace *Sebastonyma dolopia* Hewitson, 1868, Tiger Palmfly *Elymnias nesaea* Linnaeus, 1764, Plain Earl *Tanaecia jahnu jahnu* (Moore, [1858]), Extra Forest Bob *Scobura cephalo* Hewitson, 1876, Yellow-veined Flat *Mooreana trichoneura pralaya* Moore, [1866], Perak Lascar *Pantoporia paraka paraka* (Butler, 1879), Plain Sailer *Neptis cartica* Moore, 1872, Black Forester *Lethe vindhya vindhya* (C. & R. Felder, 1859), Powdered Baron *Euthalia monina kesava* (Moore, 1859), Glistening Cerluean *Jamides elpis pseudelpis* (Butler, 1879), Dark Yellow-banded Flat *Celaenorrhinus aurivittata aurivittata* (Moore, 1878), Pallid Nawab *Charaxes arja arja* (C. & R. Felder, [1867]), Courtsean *Euripus nyctelius nyctelius* (Doubleday, 1845), Dingiest Sailer *Neptis harita harita* Moore, [1875], White Dargontail *Lamproptera curius curius* (Fabricius, 1787), Northern Spotted Ace *Thoressa cerata* Hewitson, 1876, Dusky Diadem *Ethope himachala* (Moore, 1857), Common Raven *Papilio castor polias* Westwood, 1842, Light Straw Ace *Pithauria stramineipennis* Wood-Mason & deNicéville, [1887], Jewelled Nawab *Charaxes delphis delphis* (Doubleday, 1843), Dusky Yellow-breast Flat *Gerosis phisara phisara* (Moore, 1884), Dark Catseye *Zipaetis scylax scylax* Hewitson, 1863, Common Tree Yellow *Gandaca harina assamica* Moore, [1906], and Dark Archduke *Lexias dirtea khasiana* (Swinhoe, 1890), as compared to the rest of the other species sampled.

Nineteen taxa found during this survey have not been previously recorded by Gogoi (2013a) from Jeypore-Dehing forest, eastern Assam, India. These are, Lime Swallowtail *Papilio demoleus demoleus* Linnaeus, 1758, Tailed Jay *Graphium agamemnon agamemnon*

(Linnaeus, 1758), Common Windmill *Byasa polyeuctes polyeuctes* (Doubleday, 1842), Eastern Striped Albatross *Appias olferna* Swinhoe, 1890, Bright Sunbeam *Curetis bulis bulis* (Westwood, 1851), Burmese Sunbeam *Curetis saronis* Moore, 1877, Bhutia Line Blue *Prosotas bhutea* (deNicéville, [1884]), Forest Pierrot *Taraka hamada mendesia* Fruhstorfer, 1918, Royal Cerulean *Jamides caeruleus*, Glistening Cerluean *Jamides elpis pseudelpis*, Silver Royal *Ancema blanka minturna* (Fruhstorfer, 1912), Jewelled Nawab *Charaxes delphis delphis*, Angled Red Forester *Lethe chandica flanona* Fruhstorfer, 1911, White-Bar Bushbrown *Mycalesis anaxias aemate* Fruhstorfer, 1911, Dark Archduke *Lexias dirtea khasiana*, Yellow-veined Flat *Mooreana trichoneura parlaya*, Moore's Ace *Halpe porusporus* (Mabille, [1877]), Orange Awlet *Burara jaina vasundhara* (Moore, [1866]), and Yellow-Fringed Swift *Caltoris aurociliata* (Elwes & Edwards, 1897).

Twenty-five taxa found during the present survey have not been recorded earlier by either Singh et al. (2015) or Neog (2015) from Gibbon Wildlife Sanctuary lying west of the study area in the adjoining Jorhat district of Upper Assam. These species are: Tailed Sulphur *Dercas verhuelli doubledayi* Moore, [1905], Bright Sunbeam *Curetis bulis bulis*, Burmese Sunbeam *Curetis saronis saronis*, Glistening Cerluean *Jamides elpis pseudelpis*, Blue Quaker *Pithecops fulgens fugens*, Scarlet Flash *Rapala dienece* (Hewitson, 1878), Silver Royal *Ancema blanka minturna*, Jewelled Nawab *Charaxes delphis delphis*, Pallid Forester *Lethe satyavati*, Black Forester *Lethe vindhya vindhya*, Tailed Red Forester *Lethe sinorix sinorix*, Watson's Bushbrown *Mycalesis adamsoni*, Dark Catseye *Zipaetis scylax scylax*, Dusky Diadem *Ethope himachala*, Wavy Maplet *Chersonesia rahroides*, Yellow Coster *Acraea issoria issoria* (Hübner, [1819]), Orange Awlet *Burara jaina vasundhara*, Sikkim White Flat *Sereria sambara sambara* Moore, [1866], Yellow-vein Lancer *Pyronera margherita*, Yellow-veined Flat *Mooreana trichoneura parlaya*, Atkinson's Bob *Ametta atkinsoni* (Moore, 1878), Dark Yellow-banded Flat *Celaenorrhinus aurivittata aurivittata*, Light Straw Ace *Pithauria stramineipennis*, Moore's Ace *Halpe porusporus*, Northern Spotted Ace *Thoressa cerata*, and Yellow-Fringed Swift *Caltoris aurociliata*.

CONCLUSION

Eastern Assam is home to over 375 species of butterflies (Table 2) of which 1/3 are endemic to this region and 1/7 are protected under various schedules of Indian Wildlife (Protection) Act 1972. The endemic,

Table 2. Checklist of butterflies of eastern Assam, their seasonality, collection sites and relative abundance along with other past records.

A. Species recorded during the present survey (18 Nov. 2014- 09 Sept. 2016)							
	Scientific name	Common name	Month of record	Sites	Relative abundance (present study)	Status as per Evans 1932	Species restricted to northeastern and eastern Himalaya in India
A.	Family: Hesperidae						
i.	Subfamily: Coeliadinae						
1	<i>Badamia exclamationis</i> (Fabricius, 1775)	Brown Awl	June	Jeypore	Uncommon	Common	-
2	<i>Hasora badra badra</i> (Moore, [1858])	Common Awl	Feb, June	Borjan, Jeypore	Fairly Common	Not Rare	-
3	<i>Chaospes benjaminii japonica</i> (Murray, 1875)	Indian Awlking	Mar, Sep	Bherjan, Tipong	Fairly Common	Not Rare	-
4	<i>Burara jaina</i> (Moore, [1866])	Orange Awlet	Sep	Tipong	Uncommon	Not Rare	-
ii.	Subfamily: Pyrginae						
6	<i>Sarangesa dasahara dasahara</i> Moore, [1866]	Common Small Flat	Mar,	Dilli, Padumoni, Borjan	Fairly Common	Common	-
7	<i>Celaenorrhinus leucocera</i> (Kollar, [1844])	Common Spotted Flat	Feb, Mar	Padumoni, Borjan	Common	Common	
8	<i>Celaenorrhinus aurivittata aurivittata</i> (Moore, 1878)	Dark Yellow-banded Flat	Mar, Nov	Dilli, Tinkupani	Fairly Common	Not Rare	Endemic
9	<i>Pseudocoladenia dan fabia</i> Evans, 1949	Fulvous Pied Flat	Mar, Sep	Tinkupani, Tipong	Fairly Common	Common	-
10	<i>Tagiades japetus ravi</i> (Moore, [1866])	Common Snow Flat	Feb, Mar, Sep, Nov	Tipong, Tipong	Common	Common	-
11	<i>Tagiades litigiosa litigiosa</i> Möschler, 1878	Water Snowflat,	Sep	Tipong, Tinkupani	Fairly Common	Not Rare	-
12	<i>Tagiades gana athos</i> Plötz, 1884	Suffused Snow Flat	Feb,	Padumoni, Dehing-Patkai	Fairly Common	Not Rare	-
13	<i>Gerosis phisara phisara</i> (Moore, 1884)	Dusky Yellow-breast Flat	Mar	Tinkupani	Uncommon	Not Rare	Endemic
14	<i>Mooreana trichoneura pralaya</i> Moore, [1866]	Yellow-veined Flat	Sep	Tipong	Fairly Common	Not Rare	Endemic
15	<i>Seseria sambara sambara</i> Moore, [1866]	Sikkim White Flat	Sep	Borjan	Uncommon	Not Rare	-
16	<i>Odontoptilum angulata angulata</i> (. Felder, 1862)	Chestnut Angle	Sep	Borjan	Fairly Common	Not Rare	-
17	<i>Psolos fuligo subfasciatus</i> Moore, 1878	Dusky Partwing/Coon,	Mar, Sep	Borjan, Dilli, Tinkupani, Tipong	Common	Common	Endemic
iii.	Subfamily: Hesperinae						
18	<i>Ochus subvittatus subradiatus</i> (Moore, 1878)	Tiger Hopper	Jun, Sep	Tipong, Borjan, Jeypore	Common	-	Endemic
19	<i>Ampittia dioscorides</i> (Fabricius, 1793)	Bush Hopper	Sep	Borjan	Fairly Common	Common	-
20	<i>Aeromachus pygmaeus</i> Fabricius, 1775	Pygmy Scrub Hopper	Mar	Borjan	Fairly Common	Not Rare	-
21	<i>Pithauria stramineipennis</i> Wood-Mason & deNicéville, [1887]	Light Straw Ace	Nov	Dilli, Tipong, Tinkupani	Very Common	Not Rare	Endemic
22	<i>Thoressa cerata</i> Hewitson, 1876	Northern Spotted Ace	Sep	Tipong	Common	Not Rare	Endemic
23	<i>Halpe zema zema</i> Hewitson, 1877	Banded Ace	Sep	Tipong	Fairly Common	Common	Endemic
24	<i>Halpe aucma</i> Swinhoe, 1893 (IWPA Schll)	Indian Ace	Nov	Dilli	Uncommon	Not Rare	-
25	<i>Halpe porus porus</i> (Mabille, [1877])	Moore's Ace	Nov	Dilli	Uncommon	Not Rare	-
26	<i>Halpe kusala</i> Fruhstorfer, 1911	Hill Ace	Mar	Abhyapur	Uncommon	Common	Endemic
27	<i>Sebastonyma dolopia</i> Hewitson, 1868	Tufted Ace	Nov	Dilli	Uncommon	Not Rare	Endemic

	Scientific name	Common name	Month of record	Sites	Relative abundance (present study)	Status as per Evans 1932	Species restricted to northeastern and eastern Himalaya in India
28	<i>Cupitha purreea purreea</i> (Moore, 1877)	Wax Dart,	Nov	Dilli	Uncommon	Not Rare	-
29	<i>Potanthus pseudomaesa</i> Moore, [1881]	Indian Dart	Nov	Dilli			-
30	<i>Telicota colon</i> (Fabricius, 1775)	Common Palm Dart	Nov	Tinkupani	Fairly Common	Not Rare	-
31	<i>Telicota bambusae bambusae</i> Moore, 1878	Dark Palm Dart	Nov	Dilli	Uncommon	Common	-
32	<i>Oriens gola pseudolus</i> Mabille, 1883	Common Dartlet	Mar	Tinkupani, Borjan	Common	Not Rare	-
33	<i>Notocrypta paralyos asawa</i> Fruhstorfer, 1911	Common Banded Demon	Feb	Padumoni	Uncommon	Common	-
34	<i>Notocrypta curvifascia curvifascia</i> (C.&R. Felder, 1862)	Restricted Demon	Sep	Tipong	Uncommon	Common	-
35	<i>Notocrypta feisthamelii alyos</i> Moore, [1866]	Spotted Demon	Mar	Dilli, Borjan	Fairly Common	Common	-
36	<i>Ancistroides nigrita diocles</i> (Moore, [1866])	Chocolate Demon	Mar, Sep, Nov	Tinkupani, Dilli, Borjan, Tipong	Very Common	Common	-
37	<i>Iambrix salsala salsala</i> (Moore, [1866])	Chestnut Bob	Mar, Sep	Abhyapur, Dilli, Tipong, Tinkupani	Very Common	Common	-
38	<i>Koruthaialos butleri butleri</i> (de Nicéville, [1884])	Dark Velvet Bob	Feb,	Padumoni	Common	Rare	Endemic
39	<i>Arnetta atkinsoni</i> (Moore, 1878)	Atkinson's Bob	Sep	Jeypore	Fairly Common	Not Rare	-
40	<i>Scobura cephalo</i> Hewitson, 1876	Extra Forest Bob	Sep	Tipong	Uncommon	Not Rare	Endemic
41	<i>Matapa aria</i> Moore, [1866]	Common Red Eye	Sep, Nov,	Dilli	Fairly Common	Common	-
42	<i>Borbo cinnara</i> (Wallace, 1866)	Rice Swift	Sep	Tipong	Fairly Common	Common	-
43	<i>Pelopidas</i> sp. Walker, 1870	Swift	Sep	Tipong	Fairly Common	-	-
44	<i>Pelopidas assamensis</i> (de Nicéville, 1882) (IWPA Sch IV)	Great Swift	Nov	Dilli	Uncommon	-	-
45	<i>Boaris farri</i> (Moore, 1878)	Paintbrush Swift	Nov	Dilli	Uncommon	Not Rare	-
46	<i>Parnara guttatus</i> (Bremer & Grey, [1852])	Straight Swift	Nov	Dilli	Uncommon	Common	-
47	<i>Pseudoborbo bevani</i> (Moore, 1878)	Bevan's Swift	Nov	Dilli	Uncommon	Not rare	-
48	<i>Caltois aurociliata</i> (Elwes & Edwards, 1897)	Yellow Fringed Swift	Mar, Nov	Dilli	Uncommon	Rare	Endemic
49	<i>Baoris chapmani</i> Evans, 1937	Small Paintbrush Swift	Nov	Dilli	Uncommon	-	Endemic
50	<i>Pyronera margherita</i> (Doherty, 1889)	Yellow-vein Lancer	Nov	Dilli	Uncommon	Very Rare	Endemic
B. Family: Papilionidae							
i. Subfamily: Papilioninae							
51	<i>Graphium eurypylus Cheronus</i> (Jordan, 1909)	Great Jay	Jun, Sep	Tipong, Tinkupani, Jeypore	Common	Not Rare	-
52	<i>Graphium chironides chironides</i> (Honrath, 1884)	Veined Jay	Mar, Jun, Nov	Dilli, Abhyapur, Tinkupani, Dehing-Patkai	Common	Not Rare	-
53	<i>Graphium agamemnon agamemnon</i> (Linnaeus, 1758)	Tailed Jay	Feb, Mar, Jun, Sep, Nov	Dilli, Borjan, Tinkupani, Jeypore	Common	Common	-
54	<i>Graphium antiphates pompilius</i> (Fabricius, 1787)	Five Bar Swordtail	Jun, Sep	Tipong, Tinkupani, Jeypore	Very Common	Common	
55	<i>Graphium xenocles xenocles</i> (Doubleday, 1842)	Great Zebra	Jun	Jeypore	Very Common	Not Rare	Endemic
56	<i>Graphium cloanthus cloanthus</i> (Westwood, 1841)	Glassy Blue Bottle	Jun	Jeypore	Fairly Common	Not Rare	-

	Scientific name	Common name	Month of record	Sites	Relative abundance (present study)	Status as per Evans 1932	Species restricted to northeastern and eastern Himalaya in India
57	<i>Graphium sarpedon sarpedon</i> (Linnaeus, 1758) (IWPA SchII)	Common Blue Bottle	Feb, Mar, Jun, Sep	Borjan, Tinkupani, Tipong, Dehing-Patkai, Jeypore	Common	Common	-
58	<i>Lamproptera curius curius</i> (Fabricius, 1787)	White Dargontail	Mar, Jun, Sep, Nov	Dilli, Tinkupani, Borjan, Jeypore	Common	Not Rare	Endemic
59	<i>Papilio paradoxa telearchus</i> (Hewitson, 1852) (IWPA SchII)	Great Blue Mime	Jun, Sep	Dehing Paatkai, Jeypore	Very Common	Rare	Endemic
60	<i>Papilio memnon agenor</i> Linnaeus, 1768 (Female- <i>alcanor</i>)	Great Mormon	Mar, Jun, Sep, Nov	Dilli, Borjan, Bherjan, Tipong, Jeypore	Common	Common	-
61	<i>Papilio polytes romulus</i> Cramer, [1775]	Common Mormon	Mar, Jun, Sep, Nov	Dilli, Tinkupani, Tipong, Jeypore	Very Common	Very Common	-
62	<i>Papilio helenus helenus</i> Linnaeus, 1758	Red Helen	Mar, Jun, Sep, Nov	Dilli, Borjan, Bherjan, Tinkupani, Tipong, Dehing-Patkai, Jeypore	Very Common	Common	-
63	<i>Papilio nephelus chaon</i> Westwood, 1845 (IWPA SchII)	Yellow Helen	Sep	Dilli	Common	Common	Endemic
64	<i>Papilio protenor euprotenor</i> Fruhstorfer, 1908	Spangle	Feb, Mar, Jun, Sep	Borjan, Dilli, Tinkupani, Tipong, Dehing-Patkai, Jeypore	Very Common	Not Rare	-
65	<i>Papilio bianor ganesa</i> Doubleday, 1842	Common Peacock	Sep	Tipong, Tinkupani, Dehing-Patkai	Common	Common	-
66	<i>Papilio paris paris</i> Linnaeus, 1758	Paris Peacock	Jun	Jeypore	Uncommn	Common	-
67	<i>Papilio castor castor</i> Westwood, 1842	Common Raven	Mar, Jun	Dilli, Tinkupani, Tipong, Jeypore	Common	Not Rare	Endemic
68	<i>Papilio demoleus demoleus</i> Linnaeus, 1758	Lime Swallowtail	Mar, Sep, Nov	Dilli, Tinkupani	Common	Very Common	-
69	<i>Atrophaneura aidoneus</i> (Doubleday, 1845)	Lesser Batwing	Mar, Nov	Dilli	Fairly Common	Rare	-
70	<i>Atrophaneura varuna astroion</i> (Westwood, 1842)	Common Batwing	Feb, Mar, Jun, Sep	Padumoni, Abhyapur, Tinkupani, Tipong, Jeypore	Common	Not Rare	-
71	<i>Atrophaneura dasarada dasarada</i> (Moore, 1857) (IWPA Sch II)	Great Windmill	Feb,	Padumoni	Uncommon	Not Rare	-
72	<i>Atrophaneura polyeuctes polyeuctes</i> (Doubleday, 1842)	Common Windmill	Feb, Mar, Jun, Nov	Dilli, Padumoni, Bherjan, Jeypore	Very Common	Common	-
73	<i>Pachliopta aristolochiae aristolochiae</i> (Fabricius, 1775)	Common Rose	Mar, Jun, Sep	Podumoni, Tipong, Jeypore	Common	Very Common	-
74	<i>Troides aeacus aeacus</i> (C. & R. Felder, 1860)	Golden Birdwing	Mar, Jun, Sep, Nov,	Dilli, Abhyapur, Podumoni, Tipong, Tinkupani, Borjan, Jeypore	Common	Not Rare	-
C.	Family: Pieridae						
i.	Subfamily: Pierinae						
75	<i>Appias albina darada</i> (C. & R. Felder, [1865])	Common Albatross	Feb, Sep, Nov	Dilli, Bherjan, Borjan, Tipong	Common	Rare	-
76	<i>Appias lycinda eleonora</i> (Boisduval, 1836)	Chocolate Albatross	Feb, Mar, Jun, Sep, Nov	Dilli, Bherjan, Borjan, Podumoni, Tipong, Tinkupani, Dehing-Patkai, Jeypore	Very Common	Common	-
77	<i>Appias olferna</i> Swinhoe, 1890	Eastern Striped Albatross	Jun, Nov,	Dilli, Jeypore	Fairly Common	Rare	Endemic
78	<i>Catopsilia pomona pomona</i> (Fabricius, 1775)	Common Emigrant)	Sep, Nov,	Dilli, Tipong	Very Common	Common	-
79	<i>Cepora nerissa nerissa</i> (Fabricius, 1775)	Common Gull	Sep	Tinkupani	Fairly Common	Common	-
80	<i>Cepora nadina nadina</i> (Lucas, 1852)	Lesser Gull	Jun, Nov	Dilli, Jeypore	Fairly Common	Not Rare	-
81	<i>Delias pasithoe pasithoe</i> (Linnaeus, 1767)	Red Base Jezebel	Feb, Sep, Nov	Dilli, Podumoni, Tipong	Very Common	Not Rare	-
82	<i>Hebomoia glaucippe glaucippe</i> (Linnaeus, 1758)	Great Orange Tip	Mar, Jun, Sep	Tinkupani, Tipong, Dehing-Patkai, Jeypore	Very Common	Common	-

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83	<i>Ixias pyrene latifasciata</i> Butler, 1871	Yellow Orange Tip	Sep, Nov	Dilli, Tinkupani	Common	Common	-
84	<i>Leptosia nina</i> (Fabricius, 1793)	Psyche	Mar, Jun, Sep, Nov	Dilli, Bherjan, Jeypore	Common	Common	-
85	<i>Pareronia avatar</i> (Moore, [1858])	Pale Wanderer	Mar,	Bherjan, Tipong	Fairly Common	Rare	Endemic
86	<i>Pieris canidia canidia</i> (Linnaeus, 1768)	Indian Cabbage White	Feb, Mar, June	Podumoni, Bherjan, Borjan, Dilli, Tinkupani, Jeypore	Very Common	Very Common	-
87	<i>Eurema andersonii jordani</i> Corbet & Pendlebury, 1932	One Spot Grass Yellow	Feb, Jun, Sep, Nov	Dilli, Bherjan, Borjan, Jeypore	Very Common	Rare	-
ii. Subfamily: Coliadinae							
88	<i>Dercas verhuelli doubledayi</i> Moore, [1905]	Tailed Sulphur	Jun, Sep	Tipong, Jeypore	Fairly Common	Not Rare	-
89	<i>Eurema hecabe hecabe</i> (Linnaeus, 1758)	Common Grass Yellow	Feb, Mar, Sep, Nov	Dilli, Podumoni, Bherjan, Bhorjan, Tinkupani, Tipong, Dehing-Patkai	Very Common	Very Common	-
90	<i>Eurema blanda silhetana</i> (Wallace, 1867)	Three spot Grass Yellow	Feb, Mar, Jun, Nov	Dilli, Bherjan, Borjan, Jeypore	Common	Common	-
91	<i>Gandaca harina assamica</i> Moore, [1906]	Common Tree Yellow	Feb, Mar, Jun, Sep	Padumoni, Bherjan, Borjan, Tinkupani, Dehing-Patkai, Jeypore	Very Common	Not Rare	Endemic
C. Family: Riodinidae							
i. Subfamily: Nemeobiinae							
92	<i>Abisara neophron neophron</i> (Hewitson, 1861)	Tailed Judy	Mar, Sept	Tipong	Uncommon	Not Rare	-
93	<i>Zemeros flegyas flegyas</i> (Cramer, [1780])	Punchinello	Feb, Mar, Sep, Nov	Dilli, Padumoni, Bherjan, Borjan, Tinkupani, Tipong, Jeypore	Very Common	Very Common	-
D. Family: Lycaenidae							
i. Subfamily: Poritinae							
94	<i>Poritia hewitsoni hewitsoni</i> Moore, [1866] (IWPA SchII)	Common Gem	Nov,	Dilli	Uncommon	Not Rare	-
ii. Subfamily: Miletinae							
95	<i>Taraka hamada mendesia</i> Fruhstorfer, 1918	Forest Pierrot	Mar,	Abhaypur, Tipong	Fairly Common	Not Rare	-
iii. Subfamily: Curetinae							
96	<i>Curetis bulis bulis</i> (Westwood, 1851)	Bright Sunbeam	Sept	Tipong	Common	Not Rare	-
97	<i>Curetis saronis</i> Moore, 1877	Burmese Sunbeam	Sept	Tipong	Uncommon	Not Rare	Endemic
iv. Subfamily: Theclinae							
98	<i>Arhopala silhetensis silhetensis</i> (Hewitson, 1862) (IWPA SchII)	Sylhet Oakblue	Feb, Mar,	Bherjan, Dilli, Borjan, Padumoni	Very Common	Rare	Endemic
99	<i>Arhopala centaurus pirthous</i> (Moore, [1884])	Centaur Oakblue	Feb, Mar	Tinkupani, Borjan, Padumoni, Dilli	Very Common	Not Rare	-
100	<i>Arhopala paramuta paramuta</i> (de Nicéville, [1884])	Hooked Oakblue	Sept	Jeypore	Uncommon	Not Rare	-
101	<i>Arhopala ace arata</i> Tytler, 1915 (IWPA1972 Sch I)	Tytler's Dull Oakblue	09 Sept 2016	One individual at Gibbon WLS, Jorhat dist. , Assam	Uncommon	Very Rare	Endemic
102	<i>Cheritra freja evansi</i> Cowan, 1965	Common Imperial	Feb, Mar, Sep, Nov	Dilli, Borjan, Tinkupani, Tipong	Common	Not Rare	-
103	<i>Chliaria othona othona</i> Hewitson, 1869 (IWPA SchI)	Orchid Tit	Jun, Sep	Tipong, Borjan, Jeypore	Fairly Common	Not Rare	-
104	<i>Chliaria kina kina</i> (Hewitson, 1869) (IWPA SchII)	Blue Tit	Jun, Sep, Nov	Dilli, Tipong, Jeypore, Jeypore	Very Common	Rare	-
105	<i>Zeltus amasa amasa</i> (Hewitson, 1865)	Fluffy Tit	Feb, Jun, Sep	Borjan, Tipong, Jeypore	Very Common	Not Rare	-

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106	<i>Hypolycaena erylus himavantus</i> Fruhstorfer, 1912	Common Tit	Jun, Sep, Nov	Dilli, Dehing-Patkai, Borjan	Fairly Common	Common	-
107	<i>Rapala dienece</i> (Hewitson, 1878)	Scarlet Flash	Mar, Sept	Tipong	Fairly Common	Not Rare	-
108	<i>Rapala pheretima petosiris</i> (Hewitson, 1863)	Copper Flash	Jun, Sep	Tipong, Jeypore	Fairly Common	Not Rare	-
109	<i>Ancema ctesia ctesia</i> (Hewitson, 1865)	Bisport Royal	June	Jeypore	Uncommon	Not Rare	-
110	<i>Remelana jangala ravata</i> (Moore, [1866])	Chocolate Royal	Sept	Dilli, Tipong	Very Common	Common	Endemic
111	<i>Ancema blanka minturna</i> (Fruhstorfer, 1912) (IWPA Schll)	Silver Royal	Sept	Dehing Patkai	Uncommon	Rare	Endemic
112	<i>Surendra quercetorum quercetorum</i> (Moore, [1858])	Common Acacia Blue	Feb, Sept	Borjan, Tinkupani, Borjan	Common	Common	-
113	<i>Yasoda tripunctata tripunctata</i> (Hewitson, 1863) (IWPA Schll)	Branded Yamfly	Sept	Tipong, Tinkupani	Very Common	Rare	Endemic
114	<i>Loxura atymnus continentalis</i> Fruhstorfer, 1912	Common Yamfly	Jun, Sep,	Tipong, Dehing-Patkai, Borjan, Jeypore	Very Common	Common	-
115	<i>Spindasis lohita himalayanus</i> (Moore, 1884) (IWPA Schll)	Long-banded Silverline	Sep, Nov,	Tipong, Dehing-Patkai	Fairly Common	Common	-
v.	Subfamily: Lycaeninae						
116	<i>Heliophorus epicles latilimbata</i> Eliot, 1963	Purple Sapphire	Feb, Mar, Jun, Sep, Nov	Dilli, Podumoni, Bherjan, Bhorjan, Tinkupani, Tipong, Jeypore	Very Common	Common	-
117	<i>Catochrysops strabo strabo</i> (Fabricius, 1793)	Forget-me-not	June	Jeypore	Uncommon	Common	-
vi.	Subfamily: Polyommatae						
118	<i>Anthene emolus emolus</i> (Godart, [1824])	Common Ciliate Blue	Sept	Tinkupani, Dehing-Patkai	Fairly Common	Common	-
119	<i>Anthene lycaenina lycambes</i> (Hewitson, 1878)	Pointed Ciliate Blue	Sept	Tinkupani	Uncommon	Not Rare	-
120	<i>Prosotas aluta coelestis</i> (Wood-Mason & deNicéville, [1887]) (IWPA Schll)	Banded Lineblue	Jun, Sep, Nov,	Dilli, Tipong, Tinkupani, Jeypore	Common	Rare	-
121	<i>Chilades lajus lajus</i> (Stoll, [1780])	Lime Blue	Sept	Tipong	Fairly Common	Common	-
122	<i>Caleta elna noliteia</i> (Fruhstorfer, 1918)	Elbowed Pierrot	Jun, Sep	Tipong, Tinkupani, Dehing-Patkai, Borjan, Jeypore	Very Common	Not Rare	-
123	<i>Castalius rosimon rosimon</i> (Fabricius, 1775)	Common Pierrot	Feb, Mar, Sept	Borjan, Abhaypur, Tipong, Tinkupani	Common	Common	-
124	<i>Jamides celeno</i> (Cramer, [1775])	Common Cerulean	Feb, Mar, Sep, Nov	Dilli, Padumoni, Bherjan, Borjan	Very Common	Common	-
125	<i>Jamides caerulea</i> (Druce, 1873)	Royal Cerulean	Sept	Tipong, Tinkupani	Fairly Common	Rare	Endemic
126	<i>Jamides elpis pseudelpis</i> (Butler, 1879)	Glistening Cerluean	Mar,	Padumoni	Fairly Common	Not Rare	Endemic
127	<i>Prosotas nora ardates</i> (Moore, [1875])	Common Line Blue	Jun, Sep, Nov	Dilli, Borjan, Tipong, Jeypore	Very Common	Common	-
128	<i>Prosotas dubiosa indica</i> (Evans, [1925])	Tailless Line Blue	Jun, Sep	Tipong, Jeypore	Very Common	Common	-
129	<i>Prosotas bhutea</i> (deNicéville, [1884])	Bhutia Line Blue	Jun, Sep	Tipong, Jeypore	Common	Not Rare	-
130	<i>Nacaduba kurava euplea</i> Fruhstorfer, 1916	Transparent Sixline Blue	Sept	Tipong	Uncommon	Common	-
131	<i>Megisba malaya sikkima</i> Moore, 1884	Malayan	June	Jeypore	Fairly Common	Not Rare	-
132	<i>Neopitheops zalmora zalmora</i> (Butler, [1870])	Common Quaker	Jun, Sep	Tipong, Jeypore	Common	Common	-

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133	<i>Pithecopis fulgens fugens</i> Doherty, 1889 (IWPA SchII)	Blue Quaker	Nov	Dilli	Uncommon	Rare	Endemic
134	<i>Acytolepis puspa gisca</i> (Fruhstorfer, 1910)	Common Hedge Blue	Feb, Jun, Sep	Borjan, Tipong, Tinkupani, Jeypore	Common	Common	-
135	<i>Udara dilectus dilectus</i> (Moore, 1879)	Pale Hedge Blue	Mar	Tipong	Fairly Common	Not Rare	-
136	<i>Pseudozizeeria maha maha</i> (Kollar, [1844])	Pale Grass Blue	Nov,	Dilli	Fairly Common	Very Common	-
137	<i>Zizina oti soti</i> (Fabricius, 1787)	Lesser Grass Blue	Nov,	Dilli	Uncommon	Common	-
E.	Family: Nymphalidae						
i.	Subfamily: Danainae						
138	<i>Danaus genutia genutia</i> (Cramer, [1779])	Striped Tiger	Feb, Mar, Sep, Nov	Dilli, Padumoni, Borjan, Abhaypur, Tipong, Tinkupani	Very Common	Very Common	-
139	<i>Danaus chrysippus chrysippus</i> (Linnaeus, 1758)	Plain Tiger	Feb	Borjan	Uncommon	Very Common	-
140	<i>Parantica aglea melanoides</i> Moore, 1883	Glassy Tiger	Mar, Jun, Sep	Dilli, Tinkupani, Padumoni, Borjan, Abhyapur, Bherjan, Tipong, Dehing-Patkai, Jeypore	Very Common	Common	-
141	<i>Parantica melaneus plataniston</i> (Fruhstorfer, 1910)	Chocolate Tiger	Mar,	Tipong	Fairly Common	Common	-
142	<i>Parantica sita sita</i> (Kollar, [1844])	Chestnut Tiger	Feb, Mar, Nov	Borjan	Uncommon	Not Rare	-
143	<i>Tirumala septentrionis septentrionis</i> (Butler, 1874)	Dark Blue Tiger	Feb, Mar, Jun, Sep, Nov	Tinkupani, Dilli, Padumoni, Tipong, Jeypore	Very Common	Not Rare	-
144	<i>Tirmula limniace exotica</i> (Gmelin, 1790)	Blue Tiger	Mar	Abhyapur	Uncommon	Very Common	-
145	<i>Euploea algea deione</i> Westwood, 1848	Long-banded Crow	Nov,	Dilli	Uncommon	Not Rare	-
146	<i>Euploea core core</i> (Cramer, [1780])	Common Indian Crow	Sept	Tipong	Common	Common	-
147	<i>Euploea mulciber mulciber</i> (Cramer, [1777]) (IWPA SchIV)	Striped Blue Crow	Mar, Jun, Sep, Nov,	Dilli, Abhyapur, Bherjan, Padumoni, Tipong, Tinkupani, Dehing-Patkai, Jeypore	Very Common	Common	-
148	<i>Euploea midamus rogenhoferi</i> C.&R. Felder, [1865] (IWPA SchII)	Blue Spotted Crow	Mar, Jun, Sep, Nov	Dilli, Bherjan, Jeypore	Very Common	Rare	-
149	<i>Euploea radamanthus radamanthus</i> (Fabricius, 1793)	Magpie Crow	Mar, Jun, Sep, Nov	Dilli, Abhyapur, Tipong, Tinkupani, Dehing-Patkai, Jeypore	Very Common	Not Rare	-
150	<i>Polyura athamas</i> (Drury, [1773])	Common Nawab	Mar, Jun, Sep	Borjan, Jeypore	Fairly Common	Common	-
151	<i>Polyura arja</i> (C.&R. Felder, [1867])	Pallid Nawab	Sep, Sept Nov,	Dilli, Tipong, Dehing-Patkai, Borjan	Common	Not Rare	Endemic
ii.	Subfamily: Charaxinae						
152	<i>Charaxes eudamippus eudamippus</i> (Doubleday, 1843)	Great Nawab	June	Jeypore	Fairly Common	Not Rare	--
153	<i>Charaxes delphis delphis</i> (Doubleday, 1843) (IWPA 1972 Sch II)	Jewelled Nawab	14 Sept 2014	One individual on the road near Rama Kishna Mission, Deomali RF, Tirap dist. , Arunachal Pradesh adjoining Jeypore RF.	Uncommon	Not Rare	Endemic
154	<i>Charaxes kahruba</i> (Moore, [1895])	Variiegated Rajah	Sept	Dehing-Patkai	Uncommon	Rare	-
155	<i>Charaxes bernardus hierax</i> (C.&R. Felder, [1867])	Tawny Rajah	Sep, Nov	Dilli, Tipong, Tinkupani, Dehing-Patkai, Borjan	Very Common	Common	-
156	<i>Charaxes marmax marmax</i> Westwood, 1847 (IWPA SchII)	Yellow Rajah	Sept	Tipong, Tinkupani, Dehing-Patkai	Common	Rare	-

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iii.	Subfamily: Satyrinae						
157	<i>Elymnias hypermnestra undularis</i> (Drury, 1773)	Common Palmfly	Mar, Sept	Borjan, Tinkupani	Common	Common	
158	<i>Elymnias nesaea</i> Linnaeus, 1764	Tiger Palmfly	Feb,	Bherjan	Uncommon	Not Rare	Endemic
159	<i>Ethope himachala</i> (Moore, 1857)	Dusky Diadem	Sep, Nov	Dilli, Tipong	Common	Not Rare	Endemic
160	<i>Lethe chandica flonona</i> Fruhstorfer, 1911	Angled Red Forester	Feb, Mar,	Tinkupani, Borjan	Common	Not Rare	-
161	<i>Lethe vindhya vindhya</i> (C.&R. Felder, 1859)	Black Forester	Sept	Tipong	Fairly Common	Not Rare	Endemic
162	<i>Lethe mekara mekara</i> (Moore, [1858])	Common Red Forester	Sept	Dehing-Patkai	Uncommon	Common	Endemic
163	<i>Lethe satyavati</i> deNicéville, 1881 (IWPA1972 Sch I)	Pallid Forester	Mar,	Tinopani; Sibasagar	Uncommon	Rare	Endemic
164	<i>Lethe sinorix sinorix</i> (Hewitson, 1863)	Tailed Red Forester	Mar, Sep, Nov	Dilli, Tipong	Common	Rare	Endemic
165	<i>Lethe verma sintica</i> Fruhstorfer, 1911	Straight Banded Treebrown	Feb, Mar, Sep, Nov	Dilli, Padumoni, Tipong	Very Common	Common	-
166	<i>Lethe europa niladana</i> Fruhstorfer, 1911	Bamboo Treebrown	Sept	Tipong, Borjan	Fairly Common	Not Rare	-
167	<i>Melanitis zitenius zitenius</i> (Herbst, 1796) (IWPA SchII)	Great Evening Brown	Feb, Mar,	Borjan, Dehing-Patkai	Fairly Common	Not Rare	-
168	<i>Melanitis phedima bela</i> Moore, 1857	Dark Evening Brown	Feb, Mar,	Borjan, Dilli, Tipong	Very Common	Common	-
169	<i>Melanitis leda leda</i> (Linnaeus, 1758)	Common Evening Brown	Feb, Mar, Nov	Dilli, Padumoni, Bherjan, Borjan, Tinkupani, Tipong	Very Common	Very Common	-
170	<i>Mycalis perseus blasius</i> (Fabricius, 1798)	Common Bushbrown	Feb, Mar, Jun, Sep, Nov	Dilli, Padumoni, Borjan, Abhyapur, Tipong, Tinkupani, Borjan, Jeypore	Very Common	Very Common	-
171	<i>Mycalis adamsoni</i> Watson, 1897	Watson's Bushbrown	Feb, Mar	Tinkupani, Borjan	Very Common	Rare	Endemic
172	<i>Mycalis anaxias aemate</i> Fruhstorfer, 1911 (IWPA SchII)	White-Bar Bushbrown	Nov,	Dilli	Uncommon	Not rare	-
173	<i>Mycalis malsarida</i> Butler, 1868 (IWPA SchII)	Plain Bushbrown	Mar, Sep, Nov	Tinkupani, Dilli, Tipong	Common	Rare	Endemic
174	<i>Mycalis visala visala</i> (Moore, 1858)	Long-branded Bushbrown	Mar	Dilli	Fairly Common	Common	-
175	<i>Mycalis francisca sanatana</i> Moore, [1858]	Lilacine Bushbrown	Mar	Tipong	Uncommon	Not Rare	-
176	<i>Mycalis gotama charaka</i> Moore, [1875] (IWPA1972 Sch II)	Chinese Bushbrown	Mar	Borjan	Uncommon	Rare	Endemic
177	<i>Mycalis mineus mineus</i> (Linnaeus, 1758)	Dark Brand Bushbrown	Feb, Sep, Nov	Dilli, Bherjan, Bhorjan	Common	Very Common	-
178	<i>Orsotriaena medus medus</i> (Fabricius, 1775)	Medus Brown	Feb, Jun, Mar,	Bherjan, Borjan, Jeypore	Fairly Common	Common	-
179	<i>Ypthima baldus baldus</i> (Fabricius, 1775)	Common Five-ring	Feb, Mar, Jun, Sep, Nov.	Tinkupani, Dilli, Borjan, Padumoni, Abhyapur, Bherjan, Dehing-Patkai, Jeypore	Very Common	Very Common	-
180	<i>Ypthima huebneri huebneri</i> Kirby, 1871	Common Four Ring	Nov,	Dilli,	Fairly Common	Very Common	-
181	<i>Zipetis scylax scylax</i> Hewitson, 1863	Dark Catseye	Mar, Sept	Abhyapur, Tipong, Tinkupani	Very Common	Not Rare	Endemic
iv.	Subfamily: Heliconiinae						
182	<i>Acraea issoria issoria</i> (Hübner, [1819])	Yellow Coster	Sept	Tinkupani, Dehing-Patkai	Fairly Common	Not Rare	-
183	<i>Cethosia cyane cyane</i> (Drury, [1773])	Leopard Lacewing	Mar, Jun, Sep, Nov	Dilli, Bherjan, Podumoni, Tipong, Tinkupani, Dehing-Patkai, Jeypore	Very Common	Not Rare	-

	Scientific name	Common name	Month of record	Sites	Relative abundance (present study)	Status as per Evans 1932	Species restricted to northeastern and eastern Himalaya in India
184	<i>Cethosia biblis tisamena</i> Fruhstorfer, 1912	Red Lacewing	Nov	Dilli	Fairly Common	Common	-
185	<i>Cirrochroa tyche mithila</i> Moore, 1872	Common Yeoman	Feb, Mar, Nov	Dilli, Bherjan, Borjan	Very Common	Common	-
186	<i>Cirrochroa aoris aoris</i> Doubleday, [1847]	Large Yeoman	Jun, Sep	Tipong, Jeypore	Common	Not Rare	-
187	<i>Phalantha phalantha</i> (Drury, [1773])	Common Leopard	Sept	Dehing-Patkai	Uncommon	Common	-
188	<i>Vagrans egista sinha</i> (Kollar, [1844])	Vagrant	Sept	Tipong	Uncommon	Not Rare	-
189	<i>Vindula erota erota</i> (Fabricius, 1793)	Cruiser	Mar, Jun, Sep, Nov	Dilli, Bherjan, Podumoni, Tinkupani, Tipong, Jeypore	Very Common	Not Rare	-
v.	Subfamily: Limentidinae						
190	<i>Athyma pravara acutipennis</i> Fruhstorfer, 1906 (IWPA Schll)	Unbroken Sergeant	Feb, Jun, Sep, Nov	Dilli, Borjan, Tipong, Dehing-Patkai, Jeypore	Very Common	Rare	Endemic
191	<i>Athyma kanwa phorkys</i> (Fruhstorfer, 1913) (IWPA Schll)	Dot-dash Sergeant	Mar, Sept	Bherjan, Tipong	Fairly Common	Rare	Endemic
192	<i>Athyma ranga ranga</i> Moore, [1858] (IWPA Schll)	Blackvein Sergeant	Feb, Mar, Jun, Sep	Bherjan, Abhyapur, Borjan, Tipong, Jeypore	Common	Rare	-
193	<i>Athyma inara inara</i> Westwood, 1850	Colour Sergeant	Jun, Nov	Dilli, Tipong, Jeypore	Common	Not Rare	-
194	<i>Athyma perius perius</i> (Linnaeus, 1758)	Common Sergeant	Mar, Jun, Nov	Tinkupani, Dilli, Dehing-Patkai, Jeypore	Common	Common	-
195	<i>Athyma cama cama</i> Moore, [1858]	Orange Staff Sergeant	June	Jeypore	Fairly Common	Not Rare	-
196	<i>Athyma zeroca zecroa</i> Moore, 1872	Small Staff Sergeant	Nov.	Dehing-Patkai	Uncommon	Not Rare	-
197	<i>Athyma selenophora bahula</i> Moore, 1858	Staff Sergeant	Feb, Mar, Jun, Sep, Nov	Dilli, Borjan, Tipong, Dehing-Patkai, Jeypore	Common	Not Rare	-
198	<i>Euthalia phemius phemius</i> (Doubleday, 1848)	White-edged Blue Baron	Sep, Nov	Dilli, Tipong	Fairly Common	Not Rare	-
199	<i>Euthalia anosia anosia</i> (Moore, [1858]) (IWPA Schll)	Grey Baron	Mar	Borjan	Fairly Common	Rare	Endemic
200	<i>Euthalia monina kesava</i> (Moore, 1859)	Powdered Baron	Jun, Sep	Tipong, Jeypore	Fairly Common	Not Rare	Endemic
201	<i>Euthalia aconthea garuda</i> (Moore, [1858]) (IWPA Schll)	Common Baron	Feb, Sep	Borjan, Tipong, Dehing-Patkai	Fairly Common	Not Rare	-
202	<i>Lexias dirtea khasiana</i> (Swinhoe, 1890) (IWPA Schll)	Dark Archduke	Feb, Mar, Jun, Sep, Nov	Dilli, Borjan, Tipong, Tinkupani	Very Common	Not Rare	Endemic
203	<i>Lexias cyanipardus cyanipardus</i> (Butler, [1869])	Great Archduke	Sep	Tinkupani	Fairly Common	Rare	Endemic
204	<i>Lebadea martha ismene</i> (Doubleday, [1848])	Knight	Feb, Mar, Jun, Sep	Tinkupani, Borjan, Bherjan, Tipong, Jeypore	Common	Not Rare	-
205	<i>Moduza procris procris</i> (Cramer, [1777])	Commander	Feb, Mar, Jun, Sep, Nov	Dilli, Abhyapur, Tipong, Tinkupani, Dehing-Patkai, Jeypore	Common	Not Rare	-
206	<i>Neptis hylas varmona</i> Moore, 1872	Common Sailer	Feb, Mar, Sep, Nov	Dilli, Padumoni, Bherjan, Borjan, Abhaypur, Dehing-Patkai	Very Common	Very Common	-
207	<i>Neptis harita harita</i> Moore, [1875]	Dingiest Sailer	Jun, Sep	Tipong, Jeypore	Common	Not Rare	Endemic
208	<i>Neptis pseudovikasi</i> (Moore, 1899)	False Dingy Sailer	Mar, Jun, Sep	Dilli, Tipong, Tinkupani, Jeypore	Common	Not Rare	-
209	<i>Neptis miah miah</i> Moore, 1857	Small Yellow Sailer	Mar	Tipong	Fairly Common	Not Rare	-
210	<i>Neptis ananta ochracea</i> Evans, 1924	Yellow Sailer	Mar, Jun, Sep, Nov	Dilli, Borjan, Tipong, Jeypore	Common	Rare	-
211	<i>Neptis cartica</i> Moore, 1872	Plain Sailer	Sep	Tipong	Fairly Common	Not Rare	Endemic
212	<i>Neptis clinia susruta</i> Moore, 1872	Sullied Sailer	Sep	Tinkupani	Fairly Common	Rare	-

	Scientific name	Common name	Month of record	Sites	Relative abundance (present study)	Status as per Evans 1932	Species restricted to northeastern and eastern Himalaya in India
213	<i>Neptis sankara amba</i> Moore, 1858	Broad-banded Sailer	Mar,	Abhyapur	Uncommon	Not Rare	-
214	<i>Nepis nata adipala</i> Moore, 1872	Clear Sailer	Mar, Nov	Dilli	Fairly Common	Rare	-
215	<i>Phaedyma columella ophiana</i> (Moore, 1972)	Short-banded Sailer	Sept	Tipong	Uncommon	Not Rare	-
216	<i>Neptis magadha khasiana</i> Moore, 1872	Spotted Sailer	June	Jeypore	Uncommon	Rare	Endemic
217	<i>Pantoporia paraka paraka</i> (Butler, 1879)	Perak Lascar	Feb	Borjan	Uncommon	Not Rare	Endemic
218	<i>Pantoporia hordonia hordonia</i> (Stoll, [1790])	Common Lascar	Feb, Mar, Jun, Sep, Nov	Dilli, Bherjan, Abhyapur, Borjan, Tinkupani, Tipong, Jeypore	Very Common	Common	-
219	<i>Tanaecia jahnu jahnu</i> (Moore, [1858])	Plain Earl	Sept	Dehing-Patkai	Uncommon	Not Rare	Endemic
220	<i>Tanaecia julii appiades</i> (Ménétrés, 1857)	Common Earl	Mar, Sep, Nov	Dilli, Borjan, Podumoni, Tipong	Common	Common	-
221	<i>Tanaecia lepidea sthavara</i> (Fruhstorfer, 1913) (IWPA Schll)	Grey Count	Feb, Mar, Jun, Sep, Nov	Dilli, Bherjan, Borjan, Abhyapur, Tipong, Tinkupani, Dehing-Patkai, Jeypore	Very Common	Not Rare	-
vi.	Subfamily: Cyrestinae						
222	<i>Cyrestis thyodamas thyodamas</i> Boisduval, 1846	Common Map	Jun, Sep	Abhyapur, Borjan, Tinkupani, Jeypore	Common	Common	-
223	<i>Chersonesia risa risa</i> (Doubleday, [1848])	Common Maplet	Sep, Nov	Dilli, Tipong, Borjan	Very Common	Not Rare	-
224	<i>Chersonesia rahrioides</i> Moore, [1899] (IWPA Schll)	Wavy Maplet	Sep	Tipong	Uncommon	Rare	Endemic
225	<i>Dichorrhaga nesimachus nesimachus</i> (Doyère, [1840])	Constable	Sep	Borjan	Fairly Common	Not Rare	-
226	<i>Stibochiona nicea nicea</i> (Gray, 1846)	Popinjay	Sep	Tipong, Tinkupani	Common	Not Rare	-
vii.	Subfamily: Bibiliinae						
227	<i>Ariadne merione tapestrina</i> (Moore, 1884)	Common Castor	Feb, Nov	Dilli, Podumoni, Bherjan	Common	Common	-
viii.	Subfamily: Apaturinae						
228	<i>Euripus nyctelius nyctelius</i> (Doubleday, 1845)	Courtsean	Jun, Sep, Nov,	Dilli, Tipong, Jeypore	Common	Not Rare	Endemic
ix.	Subfamily: Nymphalinae						
229	<i>Junonia iphita iphita</i> (Cramer, [1779])	Chocolate Pansy	Mar, Sep	Bherjan, Tipong, Tinkupani, Dehing-Patkai, Borjan	Common	Common	-
230	<i>Junonia lemonias</i> (Linnaeus, 1758)	Lemon Pansy	Feb, Nov	Borjan, Berjan, Dilli, Tipong	Common	Common	-
231	<i>Junonia atlites atlites</i> (Linnaeus, 1763)	Grey Pansy	Mar, Nov,	Dilli, Padumoni, Borjan, Abhaypur, Tipong, Dehing-Patkai	Very Common	Not Rare	-
232	<i>Junonia almana almana</i> (Linnaeus, 1758)	Peacock Pansy	Feb, Mar, Sep, Nov	Tinkupani, Dilli, Borjan, Tinkupani	Very Common	Common	-
233	<i>Symbrenthia lila khasiana</i> (Moore, [1875])	Common Jester	Feb, Mar, Nov	Tinkupani, Dilli, Padumoni, Borjan, Tipong	Very Common	Common	-
234	<i>Hypolimnas bolina jacintha</i> (Drury, 1773)	Great Eggfly	Feb, Mar, Sep, Nov	Dilli, Podumoni, Borjan, Tipong, Tinkupani	Very Common	Common	-
235	<i>Doleschallia bisaltide indica</i> Moore, 1899	Autumn Leaf	Jun, Sep	Tipong, Borjan, Jeypore	Fairly Common	Not Rare	-
236	<i>Kallima inachus inachus</i> (Boisduval, 1846)	Orange Oak Leaf	Mar,	Dilli	Fairly Common	Not Rare	-R
237	<i>Rhinopalpa polynice birmana</i> Fruhstorfer, 1898 (IWPA Schll)	Wizard	Sep, Nov	Dilli	Common	Rare	Endemic

B. Other (previous) records from eastern Assam							
	Scientific Name	Common Name	Month	Site of record	Status as per Evans, 1932	Species restricted to Northeast & Eastern Him. in India	Reference
A. Family: HesperIIDae							
i. Subfamily: Coeliadinae							
238	<i>Bibasis sena sena</i> (Moore, [1866]) (IWPA1972 Sch II)	Orange-tail Awl, <i>Bibasis sena sena</i> (Moore, 1865) (IWPA1972 Sch II)	-	Jeypore RF	Common	-	Gogoi 2013
239	<i>Bibasis oedipodea belesis</i> (Mabille, 1876)	Branded Orange Awlet	-	Jeypore RF	Not Rare	-	Gogoi 2013
240	<i>Choaspes xanthopogon</i> (Kollar, [1844]) (syn. <i>C. similis</i> Evans, 1932)	Similar Awlking	-	Jeypore RF	Rare	Endemic	Gogoi 2013
241	<i>Hasora badra badra</i> (Moore, [1858])	Common Awl	Nov–Dec	Jeypore RF; Gibbon WLS	Not Rare	-	Gogoi 2013; Singh et al. 2015
242	<i>Hasora chromus</i> (Cramer, [1780])	Common Banded Awl	Apr–Jun	Gibbon WLS	Not Rare	-	Neog, 2015
243	<i>Hasora taminatus</i> (Hübner, 1818)	White-banded Awl	-	Jeypore RF	Common	-	Gogoi 2013
ii. Subfamily: Pyrginae							
244	<i>Gerosis sinica narada</i> (Moore, 1884)	White Yellow-breast Flat	-	Jeypore RF	Not Rare	Endemic	Gogoi 2013
245	<i>Coladenia agni agni</i> (de Nicéville, [1884])	Brown Pied Flat	Mar–Apr	Jeypore RF; Gibbon WLS	Rare	Endemic	Gogoi 2013; Singh et al. 2015
246	<i>Capilia zennara</i> (Moore, [1866])	Pale Striped Dawnfly	-	Jeypore RF	Very Rare	Endemic	Gogoi 2013
247	<i>Capila pieridoides</i> (Moore, 1878)	White Dawnfly	-	Assam	Rare	Endemic	Moore 1878
248	<i>Celaenorhinus nigricans</i> (de Nicéville, 1885)	Small-banded Flat	-	Jeypore RF	Not Rare	-	Gogoi 2013
249	<i>Celaenorhinus andamanicus hanna</i> Evans, 1949	Andaman Yellowbanded Flat	-	Jeypore RF	Very Rare	Endemic ??	Gogoi 2013
250	<i>Darpa pteris dealbata</i> (Distant, 1886)	Snowy Angle	Jul–Aug	Jeypore RF; Gibbon WLS	Rare	Endemic	Gogoi 2013; Singh et al. 2015
iii. Subfamily: Hesperiniinae							
251	<i>Spialia galba</i> (Fabricius, 1793)	Indian Skipper	Jan–Nov	Jeypore RF; Gibbon WLS	Common	-	Gogoi 2013; Neog 2015
252	<i>Ampittia maroides</i> de Nicéville, [1896]	Scarce Bush Hopper	Sep–Oct	Gibbon WLS	Rare	Endemic	Singh et al. 2015
253	<i>Aeromachus stigmata obsoleta</i> (Moore, 1878)	Veined Scrub Hopper	Sep–Oct	Jeypore RF; Gibbon WLS	Not Rare	-	Gogoi 2013; Singh et al. 2015
254	<i>Aeromachus jhora creta</i> (de Nicéville, 1885)	Grey Scrub Hopper	Sep–Oct	Gibbon WLS	Rare	Endemic	Singh et al. 2015
255	<i>Halpe sikkima</i> Moore 1882	Sikkim Ace	May–July	Gibbon WLS; Jeypore RF	Very Rare	Endemic	Gogoi 2013; Neog 2015
256	<i>Halpe kumara</i> de Nicéville, 1885	Plain Ace	Jan–Feb	Jeypore RF; Gibbon WLS	Not Rare	Endemic	Gogoi 2013; Singh et al. 2015
257	<i>Potanthus ganda</i> Fruhstorfer, 1911	Sumatran Dart	-	Jeypore RF	-	-	Gogoi 2013
258	<i>Udaspes folus</i> (Cramer, [1775])	Grass Demon	Feb–Oct	Gibbon WLS; Jeypore RF	Common	-	Gogoi 2013; Neog, 2015
259	<i>Hyarotis adrastus</i> (Stoll, [1780]) (IWPA1972 Sch IV)	Tree Flitter	Feb–Oct	Gibbon WLS	Not Rare	-	Neog 2015
260	<i>Suada swerga swerga</i> (de Nicéville, [1884])	Grass Bob	Mar–Apr; Jul–Nov	Jeypore RF; Gibbon WLS	Not Rare	Endemic	Gogoi 2013; Neog 2015
261	<i>Scobura isota</i> (Swinhoe, 1893)	Khasi Forest Bob	-	Jeypore RF; Gibbon WLS	Rare	Endemic	Gogoi 2013
262	<i>Scobura cephaloides</i> (de Nicéville, [1889])	Large Forest Bob	-	Jeypore RF	Rare	Endemic	Gogoi 2013
263	<i>Scobura phidita</i> (Hewitson, [1866])	Malay Forest Bob	-	Jeypore RF	Rare	Endemic	Gogoi 2013
264	<i>Suastus gremius</i> (Fabricius, 1798)	Small Indian Palm Bob	Mar, Sep–Oct, Nov	Jeypore RF; Gibbon WLS	Common	-	Singh et al. 2015; Neog 2015
265	<i>Gangara thyraxis</i> (Fabricius, 1775)	Giant Redeye	Jun–Nov	Gibbon WLS	Not Rare	-	Neog 2015
266	<i>Erionota thrax thrax</i> (Linnaeus, 1767)	Palm Redeye	-	Jeypore RF	Not Rare	-	Gogoi 2013

	Scientific Name	Common Name	Month	Site of record	Status as per Evans, 1932	Species restricted to Northeast & Eastern Him. in India	Reference
267	<i>Matapa cresta</i> Evans, 1949	Fringed Branded Redeye	-	Jeypore RF	-	-	Gogoi 2013
268	<i>Caltoris kumara kumara</i> (Moore, 1878)	Blank Swift	Mar-Apr; Jun-Nov	Gibbon WLS; Jeypore RF	-	-	Gogoi 2013; Neog 2015
269	<i>Baoris pagana</i> (de Nicéville, 1887)	Figure of-8 Swift	-	Jeypore RF	Not Rare	Endemic	Gogoi 2013
270	<i>Caltoris cormasa</i> (Hewitson, 1876)	Full-stop Swift	Oct-Nov	Gibbon WLS; Jeypore RF	Rare	Endemic	Gogoi 2013; Neog 2015
271	<i>Caltoris cahira carina</i> (Evans, 1937)	Colon Swift	Sep-Oct	Jeypore RF; Gibbon WLS	Rare	Endemic	Gogoi 2013; Singh et al. 2015
272	<i>Caltoris plebeia</i> (de Nicéville, 1887)	Tufted Swift	May-Nov	Gibbon WLS; Jeypore RF	-	Endemic	Gogoi 2013; Neog 2015
273	<i>Caltoris brunnea caere</i> (de Niceville, 1891)	Dark-branded Swift	-	Jeypore RF	Not Rare	Endemic	Gogoi 2013
274	<i>Pelopidas sinensis</i> (Mabille, 1877) (IWPA1972 Sch IV)	Chinese Branded Swift	Jul-Aug	Jeypore RF; Gibbon WLS	Common	-	Gogoi 2013; Singh et al. 2015
275	<i>Pelopidas mathias mathias</i> (Fabricius, 1798)	Small Branded Swift	Jul-Dec	Jeypore RF; Gibbon WLS	Common	-	Gogoi 2013; Singh et al. 2015
276	<i>Polytremis minuta</i> (Evans, 1926)	Baby Swift	-	Sibasagar District	Very Rare	Endemic	Norman, 1956
277	<i>Salanoemia sala</i> (Hewitson, [1866])	Maculate Lancer	-	Sibasagar District	Very Rare	Endemic	Norman 1956
278	<i>Plastingia naga</i> (de Nicéville, [1884])	Silver Spotted Lancer	-	Assam	Rare	Endemic	De Niceville 1884
279	<i>Hidari bhawani</i> deNicéville, [1889]	Veined Palmer	June 1952	Sibasagar District	Very Rare	Endemic	Norman, 1953; Singh 2015
280	<i>Isma</i> sp. Distant, 1886	-	-	Sibasagar District	-	-	Norman 1956
B. Family: Papilionidae							
i. Subfamily: Papilioninae							
281	<i>Papilio alcmenor alcmenor</i> C. &R. Felder, [1864]	Redbreast	Nov-Dec	Jeypore RF; Gibbon WLS	Not Rare	-	Gogoi 2013; Singh et al. 2015
282	<i>Papilio clytia</i> Linnaeus, 1758	Common Mime	May-Oct	Gibbon WLS	Not Rare	-	Neog 2015
283	<i>Troides helena cerberus</i> (C. &R. Felder, 1865)	Common Birdwing	Mar-Apr; Jul-Dec	Gibbon WLS	Not Rare	-	Singh et al. 2015; Neog, 2015
B. Family: Pieridae							
i. Subfamily: Pierinae							
284	<i>Delias acalis pyramus</i> (Wallace, 1867)	Redbreast Jezebel	Mar-Apr	Jeypore RF; Gibbon WLS	Not Rare	-	Gogoi 2013; Singh et al. 2015
285	<i>Delias descombesi descombesi</i> (Boisduval, 1836)	Red spot Jezebel	Sep-Dec; Mar, Nov.	Gibbon WLS	Not Rare	Endemic	Singh et al. 2015; Neog 2015
286	<i>Delias agostina agostina</i> (Hewitson, 1852)	Yellow Jezebel	Mar-Apr	Gibbon WLS	Not Rare	Endemic	Singh et al. 2015
287	<i>Catopsilia pyranthe minna</i> (Herbst, 1792)	Mottled Emigrant	-	Jeypore RF	Common	-	Gogoi 2013
288	<i>Pieris napi montana</i> Verity, 1908	Greenveined White	Apr-Aug	Jeypore RF	Not Rare	-	Gogoi 2013; Neog 2015
289	<i>Appias libythea</i> (Fabricius, 1775) (IWPA1972 Sch IV)	Striped Albatross	All year	Gibbon WLS	Rare	Endemic	Neog 2015
290	<i>Appias lalage lalage</i> (Doubleday, 1842)	Spot Puffin	-	Jeypore RF	Not Rare	-	Gogoi 2013
C. Family: Riodinidae							
i. Subfamily: Nemeobiinae							
291	<i>Abisara fylla</i> (Westwood, 1851)	Dark Judy	-	Jeypore RF	Common	-	Gogoi 2013
292	<i>Abisara echerius</i> (Stoll, [1790])	Straight Plum Judy	Mar-Apr; Nov-Dec	Gibbon WLS; Jeypore	Common	-	Gogoi 2013; Singh et al. 2015
293	<i>Dodona henrici</i> Holland, 1887	White Punch	-	Jeypore RF	Very Rare	Endemic	Gogoi 2013

	Scientific Name	Common Name	Month	Site of record	Status as per Evans, 1932	Species restricted to Northeast & Eastern Him. in India	Reference
D.	Family: Lycaenidae						
i.	Subfamily: Curetinae						
294	<i>Curetis acuta</i> Moore, 1877	Acute Sunbeam	-	Jeypore RF	-	-	Gogoi 2013
ii.	Subfamily: Miletinae						
295	<i>Spalgis epius</i> (Westwood, 1852)	Apefly		Gibbon WLS	Not Rare	-	Neog 2015
iii.	Subfamily: Theclinae						
296	<i>Arhopala bazaloides</i> (Hewitson, 1878) (IWPA Sch II)	Tamil Oakblue	Mar-Apr	Sibasagar District; Gibbon WLS	Rare	Endemic	Norman, 1953; Singh et al. 2015; Neog 2015
297	<i>Arhopala fulla ignara</i> Riley & Godfrey, 1921 (IWPA1972 Sch II)	Spotless Oakblue	Mar-Apr	Gibbon WLS	Rare	Endemic	Singh et al. 2015
298	<i>Arhopala perimuta perimuta</i> (Moore, [1858])	YellowdiscTailless Oakblue	Mar-Apr	Sibasagar District; Gibbon WLS	Not Rare	Endemic	Norman, 1953; Singh et al. 2015; Neog 2015
299	<i>Arhopala emolphus eumolphus</i> (Cramer, [1780])	Green Oakblue	Mar-Apr	Sibasagar District; Jeypore RF; Gibbon WLS	Not Rare	-	Norman, 1953; Gogoi 2013; Singh et al. 2015; Neog 2015
300	<i>Arhopala atrax</i> (Hewitson, 1862)	Indian Oakblue	-	Jeypore RF	Common	-	Gogoi 2013
301	<i>Arhopala athada apha</i> deNicéville, 1895	Vinous Oakblue	August	Garampani, Golaghat District	Very Rare	Endemic	Norman 1956
302	<i>Arhopala dispar dispar</i> Riley & Godfrey, 1921	Frosted Oakblue	April	[Nambar forest]	Rare	Endemic	Norman 1953
303	<i>Arhopala anarte</i> (Hewitson, 1862)	Magnificent Oakblue	April	[Nambar forest]	Very Rare	Endemic	Norman 1953
304	<i>Arhopala arvina ardea</i> (Evans, 1932) (IWPA1972 Sch I)	Purple Brown Tailless Oakblue	May	Tiru Hills, Sibasagar District	Very Rare	Endemic	Norman 1953
305	<i>Arhopala ammonides</i> (Doherty, 1891)	Dark Bushblue	Mar, May, Jun, Jul	Sibasagar District	Rare	Endemic	Norman 1953
306	<i>Arhopala ariel</i> (Doherty, 1891) (IWPA1972 Sch I)	Chocolate Bushblue	Mar, May, Jun, Jul	Sibasagar District	Very Rare	Endemic	Norman 1953
307	<i>Arhopala birmana</i> (Moore, [1884])	Burmese Bushblue	-	Jeypore RF	Not Rare	Endemic	Gogoi 2013
308	<i>Arhopala aberrans</i> (deNicéville, [1889])	Pale Bushblue	-	Jeypore RF	Rare	Endemic	Gogoi 2013
309	<i>Flos adriana</i> (deNicéville, [1884])	Variegated Plushblue	-	Jeypore RF	Not Rare	Endemic	Gogoi 2013
310	<i>Simiskina phalena harterti</i> (Doherty, 1889) (IWPA Sch I)	Broad-branded Brilliant	-	Sibasagar District	Very Rare	Endemic	Norman, 1953
311	<i>Ticherra acte acte</i> (Moore, [1858])	Blue Imperial	Jan-Apr; Nov-Dec	Jeypore RF; Gibbon WLS	Not Rare	-	Gogoi 2013; Singh et al. 2015; Neog, 2015
312	<i>Sinthusia nasaka amba</i> (Kirby, 1878) (IWPA1972 Sch II)	Narrow Spark	-	Jeypore RF	Rare	Endemic	Gogoi 2013
313	<i>Sinthusia chandrana grotei</i> (Moore, [1884]) (IWPA1972 Sch II)	Broad Spark	-	Jeypore RF; Gibbon WLS	Not Rare	Endemic	Gogoi 2013; Singh et al. 2015
314	<i>Rapala manea schistacea</i> (Moore, 1879)	Slate Flash	-	Jeypore RF	Common	-	Gogoi 2013
315	<i>Rapala iarbus iarbus</i> (Fabricius, 1787)	Common Red Flash	Nov-Dec	Gibbon WLS	Common	Endemic	Singh et al. 2015
316	<i>Rapala rosacea</i> (de Nicéville, [1889])	Rosy Flash	-	Jeypore RF	Rare	Endemic	Gogoi 2013
317	<i>Catapaecilma major emas</i> Fruhstorfer, 1912	Common Tinsel	Mar-Apr, Nov	Gibbon WLS	Not Rare	-	Singh et al. 2015; Neog 2015
318	<i>Tajuria maculata</i> (Hewitson, 1865)	Spotted Royal	-	Assam	Not Rare	Endemic	Hewitson 1865
319	<i>Rachana jalindra indra</i> (Moore, [1884]) (IWPA1972 Sch II)	Banded Royal	Mar-Apr	Gibbon WLS	-	-	Singh et al. 2015
320	<i>Creon cleobis</i> (Godart, [1824])	Broadtail Royal	Apr, Nov	Gibbon WLS	Not Rare	-	Neog 2015

	Scientific Name	Common Name	Month	Site of record	Status as per Evans, 1932	Species restricted to Northeast & Eastern Him. in India	Reference
321	<i>Dacalana penicilligera</i> (de Nicéville, 1890)	Double Tufted Royal	Jun-Jul	Gibbon WLS	Not Rare	Endemic	Neog 2015
322	<i>Horaga onyx onyx</i> (Moore, [1858]) (IWPA1972 Sch II)	Common Onyx	-	Gibbon WLS	Not Rare	-	Neog 2015
323	<i>Mota massyla</i> (Hewitson, 1869)	Saffron	-	Jeypore RF	Rare	Endemic	Gogoi 2013
iv.	Subfamily: Lycaeninae						
324	<i>Heliophorus brahma</i> (Moore, [1858])	Golden Sapphire	Nov-Dec	Gibbon WLS	Not Rare	Endemic	Singh et al. 2015
v.	Subfamily: Polyommatae						
325	<i>Callenya melaena</i> (Doherty, 1889)	Metallic Hedge Blue	-	Jeypore RF	Rare	Endemic	Gogoi 2013
326	<i>Callenya melaena melaena</i> (Doherty, 1889) (IWPA1972 Sch II)	Tiny Hedge Blue	-	Jeypore RF	Rare	Endemic	Gogoi 2013
327	<i>Celatoxia marginata</i> (de Nicéville, [1884])	Margined Hedge Blue	-	Jeypore RF	Not Rare	-	Gogoi 2013
328	<i>Lycaenopsis transpectus</i> (Moore, 1879)	White-banded Hedge Blue	-	Jeypore RF	Not Rare	Endemic	Gogoi 2013
329	<i>Udara selma cerima</i> (Corbet, 1937)	Bi-coloured Hedgeblue	20-01-1952	Sivasagar District	Very Rare	Endemic	Norman 1953 & 1956
330	<i>Udara albocaerulea albocaerulea</i> (Moore, 1879) (IWPA1972 Sch II)	Albocaerulean	-	Jeypore RF	Rare	-	Gogoi 2013
331	<i>Celastrina lavendularis limbata</i> (Moore, 1879)	Plain Hedge Blue	All Year	Jeypore RF	Not Rare	-	Gogoi 2013; Neog 2015
332	<i>Celastrina argiolus iyntea</i> (de Nicéville, [1884])	Jyntea Hedge Blue	-	Jeypore RF	Not Rare	Endemic	Gogoi 2013
333	<i>Celastrina argiolus</i> (Linnaeus, 1758)	Hill Hedge Blue	-	Jeypore RF	Common	Endemic	Gogoi 2013
334	<i>Monodontides musina musinoides</i> (Swinhoe, 1910)	Swinhoe's Hedge Blue	-	Jeypore RF	Not Rare	Endemic	Gogoi 2013
335	<i>Nacaduba hermus nabo</i> Fruhstorfer, 1916	Pale Four-Lineblue	Jul-Aug	Jeypore RF; Gibbon WLS	Not Rare	Endemic	Gogoi 2013; Singh et al. 2015
336	<i>Nacaduba beroe gythion</i> Fruhstorfer, 1916	Opaque Six-Lineblue	Jul-Aug	Jeypore RF; Gibbon WLS	Not Rare	-	Gogoi 2013; Singh et al. 2015
337	<i>Ionolyce helicon merguana</i> (Moore, 1884) (IWPA1972 Sch II)	Pointed Lineblue	Jul-Aug	Jeypore RF; Gibbon WLS	Not Rare	Endemic	Gogoi 2013; Singh et al. 2015
338	<i>Nacaduba dana</i> (de Nicéville, [1884])	Dingy Lineblue	-	Jeypore RF	Not Rare	-	Gogoi 2013
339	<i>Chilades pandava</i> (Horsfield, [1829])	Plains Cupid	May-Nov	Gibbon WLS	Common	-	Neog 2015
340	<i>Jamides alecto euryasces</i> (Fruhstorfer, 1916)	Metallic Cerulean	Jan-Feb; Nov-Dec	Jeypore RF; Gibbon WLS	Common	-	Gogoi 2013; Singh et al. 2015; Neog 2015
341	<i>Jamides bochus bochus</i> (Stoll, [1782])	Dark Cerulean	Mar-Apr	Jeypore RF; Gibbon WLS	Common	-	Gogoi 2013; Singh et al. 2015
342	<i>Zizeeria karsandra</i> (Moore, 1865)	Dark Grass Blue	Jul-Aug	Jeypore RF; Gibbon WLS	Common	-	Gogoi 2013; Singh et al. 2015
343	<i>Lampides boeticus</i> (Linnaeus, 1767) (IWPA1972 Sch II)	Peablu	May-Nov	Jeypore RF	Common	-	Gogoi 2013; Neog, 2015
344	<i>Syntarucus plinius</i> (Fabricius, 1793)	Zebra Blue	All Year	Jeypore RF	Common	-	Gogoi 2013; Neog 2015
345	<i>Una usta usta</i> (Distant, 1886) (IWPA1972 Sch II)	Singleton	-	Jeypore RF	Rare	Endemic	Gogoi 2013
E.	Family: Nymphalidae						
i.	Subfamily: Charaxinae						
346	<i>Charaxes solon sulphurous</i> (Rothchild, 1899)	Black Rajah	-	Jeypore RF	Rare	Endemic	Gogoi 2013; Neog 2015
347	<i>Polyura schreiber assamensis</i> (Rothchild, 1899) (IWPA1972 Sch I)	Blue Nawab	-	Jeypore RF	Very Rare	Endemic	Gogoi 2013
ii.	Subfamily: Satyrinae						
348	<i>Heronia marathus</i> Doubleday, [1848] (IWPA1972 Sch II)	Pasha	Mar-Nov	Gibbon WLS	Not Rare	Endemic	Neog, 2015

	Scientific Name	Common Name	Month	Site of record	Status as per Evans, 1932	Species restricted to Northeast & Eastern Him. in India	Reference
349	<i>Enispe euthymius euthymius</i> (Doubleday, 1845)	Red Caliph	-	Jeypore RF	Not Rare	Endemic	Gogoi 2013
350	<i>Amathuxidia amythaon</i> (Doubleday, 1847)	Ko-hi-noor	-	Jeypore RF	Rare	Endemic	Gogoi 2013
351	<i>Thaumantis diores</i> Doubleday, 1845	Jungle glory	-	Jeypore RF	Not Rare	Endemic	Gogoi 2013; Neog 2015
352	<i>Cupha erymanthis</i> (Drury, [1773])	Rustic	Jan-Nov	Gibbon WLS	Common	-	Neog, 2015
353	<i>Discophora sondaica zal</i> Westwood, 1851	Common Duffer	Jan-Feb; Sep-Oct	Gibbon WLS	Common	Endemic	Singh et al. 2015; Neog 2015
354	<i>Discophora timora timora</i> Westwood, [1850]	Great Duffer	Sep-Oct	Gibbon WLS	Not Rare	Endemic	Singh et al. 2015
355	<i>Faunis canens arecillas</i> Stichel, 1933	Common Faun	July-Aug; Nov-Dec	Gibbon WLS	Common	Endemic	Gogoi 2013; Singh et al. 2015
356	<i>Ypthima fusca</i> Elwes & Edwards, 1893	Assam Threering	Sep-Dec	Jeypore RF; Gibbon WLS	Not Rare	Endemic	Gogoi 2013; Singh et al. 2015
357	<i>Ragadia crito</i> de Nicéville, 1890 (IWPA1972 Sch II)	Dusky-Striped Ringlet	-	Jeypore RF	Rare	Endemic	Gogoi 2013
358	<i>Elymnias pealii</i> Wood-Mason, 1883 (IWPA1972 Sch I)	Peal's Palmfly	-	Jeypore RF	Very Rare	Endemic	Gogoi 2013
iii.	Subfamily: Heliconiinae						
359	<i>Acraea violae</i> (Fabricius, 1793)	Tawny Coster	Mar-Dec	Gibbon WLS	Common	-	Neog, 2015
360	<i>Argyreus hyperbius</i> (Linnaeus, 1763)	Tropical Fritillary	-	Jeypore RF	Not Rare	-	Gogoi 2013
iv.	Subfamily: Limentidinae						
361	<i>Euthalia lubentina lubentina</i> (Cramer, [1777]) (IWPA1972 Sch IV)	Gaudy Baron	Sep-Oct	Jeypore RF; Gibbon WLS	-	-	Gogoi 2013; Singh et al. 2015; Neog 2015
362	<i>Euthalia telchinia</i> (Ménétrés, 1857) (IWPA1972 Sch I)	Blue Baron	-	Jeypore RF	Very Rare	Endemic	Gogoi 2013
363	<i>Euthalia alpheda jama</i> (C. & R. Felder, [1867])	Streaked Baron	-	Jeypore RF	Not Rare	Endemic	Gogoi 2013
364	<i>Limenitis daraxa</i> (Doubleday, [1848])	Green Commodore	Mar-Apr; Nov-Dec	Jeypore RF; Gibbon WLS	Not Rare	Endemic	Gogoi 2013; Singh et al. 2015
365	<i>Neptis nashona</i> Swinhoe, 1896	Less Rich Sailer	-	Jeypore RF	Rare	Endemic	Gogoi 2013
366	<i>Neptis soma soma</i> Moore, 1858 (syn. <i>Neptis yerburyi sikkima</i> Evans, 1924) (IWPA1972 Sch II)	Sullied Sailer (Yerbury's Sailer)	Sep-Oct	Jeypore RF; Gibbon WLS	Not Rare	Endemic	Gogoi 2013; Singh et al. 2015
367	<i>Pantoporia sandaka davidsoni</i> Eloit, 1969	Extra Lascar	-	Jeypore RF	-	-	Gogoi 2013
368	<i>Pantoporia dindinga</i> (Butler, 1879)	Grey-lined Lascar	-	Jeypore RF	Very Rare	Endemic	Gogoi 2013
369	<i>Pantoporia assamica</i> (Moore, 1881)	Assamese/Conjoined Lascar	Feb	Shivasagar District	Very Rare	Endemic	Norman 1956
370	<i>Parthenos sylvia</i> (Cramer, [1776])	Clipper	-	Gibbon WLS	Not Rare	-	Neog 2015
v.	Subfamily: Bibiliinae						
371	<i>Ariadne ariadne</i> (Linnaeus, 1763)	Angled Castor	-	Jeypore RF	Common	-	Gogoi 2013; Neog 2015
vi.	Subfamily: Apaturinae						
372	<i>Mimathyma ambica ambica</i> (Kollar, [1844])	Indian Purple Emperor	Mar-Apr	Gibbon WLS	Not Rare	-	Singh et al. 2015
373	<i>Hestina nama nama</i> (Doubleday, 1844)	Circe	-	Jeypore RF	Not Rare	-	Gogoi 2013
vii.	Subfamily: Nymphalinae						
374	<i>Kaniska canace canace</i> (Linnaeus, 1763)	Blue Admiral	Jan-Apr	Jeypore RF; Gibbon WLS	-	Endemic	Gogoi 2013; Singh et al. 2015
375	<i>Vanessa indica indica</i> (Herbst, 1794)	Indian Red Admiral	Nov-Dec	Gibbon WLS	Common	-	Singh et al. 2015



Image 7. Congregation of all five families of butterflies on the road in Jeypore Reserve Forest (June).



Image 8. Congregation of Danaids (Maggie Crow *Euploea radamanthus* & Blue Spotted Crow *Euploea midamus rogenhoferi*) in Jeypore Reserve forest (June).



Image 9. Congregation of Nymphalids (Rajahs: Tawny Rajah *Charaxes bernardus hierax* & Yellow Rajah *Charaxes marmax marmax*; Crusier *Vindula erotaerota*) feeding on fluids of a dead crab in Dehing-Patkai Wildlife Sanctuary (September).



Image 10. Congregation of Lycaenids (Common Ciliate Blue *Anthea emolus emolus* & Common Tit *Hypolycaena erylus himavantus*) in Jeypore Reserve Forest in June.



Image 11. Mating pair of Chestnut Bobs *Lambrix salsala salsala* in Tirap Reserve Forest, Tinsukhia District, Assam (September).



Image 12. White Dargontail *Lamproptera curius curius* (Fabricius, 1787)



Image 13. Great Blue Mime *Papilio paradoxa telearchus* Hewitson, 1852



Image 14. Eastern Striped Albatross *Appias olferna* Swinhoe, 1890



Image 15. Tylter's Dull Oakblue *Arhopala ace arata* de Niceville, 1893



Image 16. Hooked Oakblue *Arhopala paramuta paramuta* de Niceville, 1883



Image 17. Sylhet Oakblue *Arhopala silhelensis silhetensis* Hewitson, 1862



Image 18. Branded Yamfly *Yasoda tripunctata tripunctata* Hewitson, 1863



Image 19. Scarlet Flash *Rapala dienece* Hewitson, 1878



Image 20. Silver Royal *Ancema blanka minturna* Fruhstorfer, 1912



Image 21. Plain Bushbrown *Telinga malsarida* Butler, 1868



Image 22. Watson's Bushbrown *Mycalesis adamsoni* Watson, 1897



Image 23. Chinese Bushbrown *Mycalesis gotama charaka* Moore, 1874



Image 24. Dark Catseye *Zipaetis scylax scylax* Hewitson, 1863



Image 25. Dusky Diadem *Ethope himachala* Moore, 1857



Image 26. Black Forester *Lethe vindhya vindhya* Felder, 1859



Image 27. Pallid Forester *Lethe satyavati* deNiceville, 1880



Image 28a. Wavy Maplet *Chersonesia intermedia rahroides* Moore, 1899



Image 28b. Common Maplet *Chersonesia risa* Doubleday, 1848-only for comparison with Wavy Maplet (Image 28a).



Image 29. Plain Sailer *Neptis cartica* Moore, 1872



Image 30. Dingiest Sailer *Neptis harita harita* Moore, 1874

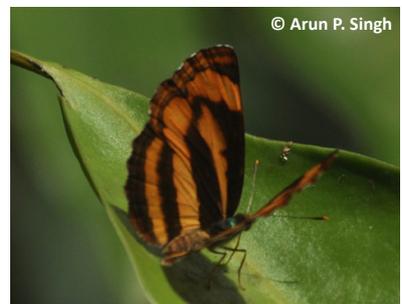


Image 31. Perak Lascar *Pantoporia paraka* Butler, 1877



Image 32. Grey Baron *Euthalia anosia nosia* Moore, 1857



Image 33. Constable *Dichorrhaga nesimachus nesimachus* Doyere, 1840



Image 34. Dark Archduke *Lexias dirtea khasiana* Swinhoe, 1893



Image 35. Yellow Flat *Mooreana trichoneura pralaya* Moore, 1865



Image 36. Northern Spotted Ace *Thoressa cerata* Hewitson, 1876



Image 37. Extra Forest Bob *Scobura cephalo* Hewitson, 1876

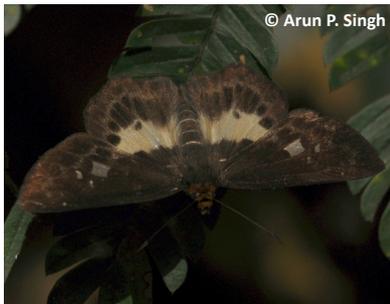


Image 38. Dusky Yellow-breast Flat *Gerosis phisara phisara* Moore, 1884

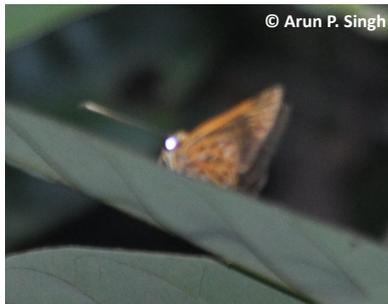


Image 39. Indian Yellow-vein Lancer *Pyrroneura margherita* Doherty, 1889



Image 40. Dark Yellow-banded Flat *Celaenorrhinus aurivittata aurivittata* Moore, 1878



Image 41. Small Paintbrush Swift *Baoris chapmani* Evans, 1937



Image 42. Hill Ace *Halpe kasula* Fruhstorfer, 1911



Image 43. Panoramic view of the author with his team sampling in evergreen forests in Tirap Reserve Forest, Tinsukhia District, Assam bordering Changlang District of Arunachal Pradesh (September) .

rare and protected species form priority species for conservation in this region. The existence of some 'endemic' and 'very rare' species (Evans, 1932) in large numbers in these forests, i.e., Yellow-vein Lancer *Pyroneura margherita*, Grey-lined Lascar *Pantoporia dindinga assamica* (Butler, 1879), Assamese/Conjoined Lascar *Pantoporia assamica* (Moore, 1881), Bi-coloured Hedgeblue *Udara selma cerima* (Corbet, 1937), Vinous Oakblue *Arhopala athada aphade* deNiceville, 1895, Magnificent Oakblue *Arhopala anarte* (Hewitson, 1862), White Punch *Dodona henrici* Holland, 1887, Pale Striped Dawnfly *Capilia zennara*, Andaman Yellow-banded Flat *Celaenorrhinus andamanicus hanna* Evans, 1949, Sikkim Ace *Halpe sikkima* Moore 1882, Baby Swift *Polytremis minuta* (Evans, 1926), Maculate Lancer *Salanoemia sala* (Hewitson, [1866]), Veined Palmer *Hidari bhawani*, and some that are also listed in Schedule I under IOWPA 1972, i.e., Pallid Forester *Lethe satyavati*, Peal's Palmfly *Elymnias peali* Wood-Mason, 1883, Blue Baron *Euthalia telchinia* (Ménétrés, 1857), Blue Nawab *Polyura schreiber assamensis* (Rothchild, 1899), Tytler's Dull Oakblue *Arhopala ace arata*, Orchid Tit *Hypolycaena othona othona* Hewitson, 1869, Purple Brown Tailless Oakblue *Arhopala arvina ardea* (Evans, 1932), Chocolate Bushblue *Arhopala ariel* (Doherty, 1891), and Broad-branded Brilliant *Simiskina phalena harterti*, is a clear indicator of the rich and unique diversity existing in this global biodiversity hotspot, which now needs to be conserved at all costs. Small reserve forests areas that are now isolated patches such as Bherjan, Bhorjan and Podumoni RF's, which lie in the proximity of Tinsukhia Town, can be promoted to be taken up as sites for 'butterfly inclusive ecotourism' activities. This can be done by developing nature trails, putting up maps, signages and display boards, preparing and providing pamphlets on butterflies and other biodiversity found in the area with photographs along with their seasonality for tourists, training nature guides of these areas for generating local livelihood opportunities. Lastly, promoting ecotourism through electronic media and encouraging conservation efforts for these remnant forest patches through research and educational programmes and adopting threatened species of flora and fauna will help in the long term conservation of these forests.

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A new distribution record of the European Free-tailed Bat *Tadarida teniotis* (Chiroptera: Molossidae) from the western Himalaya, India

-- Rohit Chakravarty, Pp. 10463–10467

Measuring Indian Blackbuck *Antelope cervicapra* (Mammalia: Cetartiodactyla: Bovidae) abundance at Basur Amruth Mahal Kaval Conservation Reserve, Chikkamagaluru, southern India

-- H.S. Sathya Chandra Sagar & P.U. Antony, Pp. 10468–10472

Notes

A new species of *Sarcinella* (Ascomycetes) from Eturnagaram Wildlife Sanctuary, Warangal District, Telangana, India

-- Khaja Moinuddin Mohammad, Bagyanarayana Gaddam & Rana Kausar, Pp. 10473–10475

Re-collection of the Black Catchfly *Silene nigrescens* (Caryophyllales: Caryophyllaceae) after 130 years from Indian western Himalaya

-- Satish Chandra, D.S. Rawat & P.K. Pusalkar, Pp. 10476–10479

Eight new records of the family Erebiidae (Lepidoptera: Noctuoidea) from India

-- Jagbir Singh Kirti, Navneet Singh & Harkanwal Singh, Pp. 10480–10486

New records of hover wasps (Hymenoptera: Vespidae: Stenogastrinae) from Bhutan

-- Tshering Nidup, Wim Klein & Phurpa Dorji, Pp. 10487–10489

Addition of four species to the butterfly checklist of Kaleshwar National Park, Haryana, India

-- Sachin P. Ranade, Pp. 10490–10492