

INSECTA : LEPIDOPTERA  
PART II. NYMPHALIDAE

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INTRODUCTION

The present paper deals with the material belonging to the family Nymphalidae (Part I deals with Papilionidae). It includes 31 species and subspecies in 18 genera of which *Dilipa morgiana* (Westwood), *Penthema l. lisarda* (Doubleday), *Limenitis zulema* Doubleday are very rare, *Chersonesia risa* (Doubleday), *Calinaga buddha brahma* Butl., *Neptis ananta ochracea* Evans, *Neptis magadha khasiana* Moore, *Pantoporia s. selenophora* (Koll.), *P. pravara acutipennis* Fruh., *P. r. ranga* (Moore), *Neurosigma d. doubledayi* (Westwood), *Limenitis danava* Moore, *Symbrenthia n. niphanda* Moore and *Euthalia franciae rajah* Felder are rare and the remaining 17 species and subspecies are either common or not rare in status.

Betts (1950) reported 66 species and subspecies of Nymphalidae mainly from Subansiri division of Arunachal Pradesh. Later, Varshney and Chanda (1971) also recorded two species and subspecies, viz. *Charaxes polyxena hierax* (Fd.) from Miao, Tirap district and *Cyrestis t. thyodamas* Boisd. from 'somewhere in NEFA', without specific locality.

In the present paper all the 31 species and subspecies, as dealt with are new records from Namdapha region, of which 29 species and subspecies from Tirap District alone and 14 species and subspecies from the entire Arunachal Pradesh are also recorded for the first time.

SYSTEMATIC ACCOUNT

Family NYMPHALIDAE

Genus **Kallima** Doubleday

1849. *Kallima* Doubleday, *Westw. & Hew. Gen. Di. Lep.*, p. 324, pl. 52.

Out of a total of two species and subspecies known under this genus from Arunachal Pradesh, one is represented here. The other species is *K. alompra* Moore which is locally common.

1. **Kallima inachus inachus** (Boisduval)

1836. *Paphia inachus* Boisduval, *Cuv. Reg. Anim. Ins.*, 2, pl. 139, fig. 3 ♀.

1932. *Kallima inachus inachus*, Evans, *Identif. Indian Butterfl.*, p. 175.

*Material examined* : One ♂, Deban North, Namdapha, 28.iv.1981 (S. Biswas and Party coll.). Wing exp. 110 mm.

*Distribution* : India : Himalayas, Kashmir to Sikkim, Pachmarhi (M. P.), South Bihar, Orissa, Eastern Ghats upto river Godavari, Assam, Arunachal Pradesh and Burma, Tenasserim.

*Remarks* : The subspecies commonly known as 'The Orange Oak Leaf', is recorded for the first time from Namdapha, Tirap district, Arunachal Pradesh. Its status has been described as not rare.

Genus **Dilipa** Moore

1857. *Dilipa* Moore, *Cat. Lep. Mus. E. I. C.*, 1 : 201.

The only species known under this monotypical genus is dealt with hereunder.

2. **Dilipa morgiana** (Westwood)

1851. *Apatura morgiana* Westwood, *Westw. & Hew. Gen. Di. Lep.*, 2 : 355.

1957. *Dilipa morgiana*, Wynter-Blyth, *Butterf. Indian Reg.*, p. 152, pl. 21, figs. 5-6.

*Material examined* : One ♀, Hornbill, Namdapha, 15.iv.1981 (S. Biswas and Party coll.). Wing exp. 74 mm.

*Distribution* : India : Kashmir, Dharmsala (H. P.), Sikkim, Assam, and Burma.

*Remarks* : The species is commonly known as 'The Golden Emperor'. Males are rare and females are very rare in status Wynter-Blyth (1957). It is recorded for the first time from Namdapha, Tirap district as well as from the entire Arunachal Pradesh.

Genus **Penthema** Doubleday

1847. *Penthema* Doubleday, *Westw. & Hew. Gen. Di. Lep.*, pl. 39.

One species with subspecies under this genus is dealt with hereunder.

3. ***Penthema lisarda lisarda*** (Doubleday)

1845. *Diadema lisarda* Doubleday, *Ann. Mag. Nat. Hist.*, (1) 16 : 233.

1932. *Penthema lisarda lisarda*, Evans, *Identif. Indian Butterfl.*, p. 149.

*Material examined* : One ♀, Gibbon land, Namdapha, 2.v.1981 (S. Biswas and Party coll.). Wing exp. 116 mm.

*Distribution* : India : Sikkim, Assam, Manipur and also from Chin Hills, Upper Burma.

*Remarks* : The subspecies, commonly known as 'The Yellow Kaiser', is the largest among Indian Nymphalids and is rare in status. This is the first record of the subspecies from Namdapha, Tirap district as well as from the entire Arunachal Pradesh.

Genus ***Cethosia*** Fabricius

1807. *Cethosia* Fabricius, *Illig. Mag.*, 6 : 280.

Out of a total of two species and subspecies known under this genus from Arunachal Pradesh one is represented here. The other species is *C. cyane* Drury which is not very common in status.

4. ***Cethosia biblis tisamena*** (Fruhstorfer)

1770. *Papilio biblis* Drury, *Ill. Ex. Ent.*, 1, pl. 4, fig. 2♂.

1912. *Cethosia biblis tisamena* Fruhstorfer, In Seitz's *Macrolep. World*, 9 : 499.

*Material examined* : Two ♂♂, 2 ♀♀, Burma Nala, Namdapha, 24.iv.1981 (S. Biswas and Party coll.). Wing exp. 72-80 mm. ♂, 82 mm. ♀.

*Distribution* : India : Sikkim, Assam, Arunachal Pradesh also Nepal, Bhutan and Burma.

*Remarks* : The subspecies, popularly known as 'The Red Lecewing', is common in status. This is the first report of the subspecies from Namdapha, Tirap district, Arunachal Pradesh.

Genus ***Cyrestis*** Boisduval

1832. *Cyrestis* Boisduval, *Voy. Astrolabe*, p. 117.

One species with subspecies under this genus is dealt with hereunder.

### 5. *Cyrestis thyodamas thyodamas* Boisduval

1836. *Cyrestis thyodamas* Boisduval, *Cuv. Reg. Anim. Ins.*, 2 ; pl. 138, fig. 4.

1932. *Cyrestis thyodamas thyodamas*, Evans, *Idnetif. Indian Butterfl.*, p. 173.

*Material examined* : One ♂, 7 ♀ ♀, Hornbill, Namdapha, 11, 13, 14.iv.1981 (S. Biswas and Party coll.). Wing exp. 55-64 mm.

*Distribution* : India : Kashmir, Garhwal (H. P.), Kumaon (U. P.), Coorg (Karnataka), Trivandram (Kerala), Nilgiri Hills, Palnis (Tamil Nadu), Assam, Arunachal Pradesh, also Burma, Tenasserim, China and Japan.

*Remarks* : The subspecies is popularly known as 'The Common Map'. This is the first specific report of the species from Namdapha, Tirap district, Arunachal Pradesh. Evans (1932) reported that the subspecies is common in status but Varshney and Chanda (1971) recorded it from 'somewhere in NEEA' as not rare.

### Genus *Chersonesia* Distant

1883. *Chersonesia* Distant, *Rhop. Malay*, p. 142.

One species under this genus is represented here.

### 6. *Chersonesia risa* (Doubleday)

1850. *Cyrestis risa* Doubleday, *Westw. & Hew. Gen. Di. Lep.*, 2 : 262, pl. 32, fig. 4.

1957. *Chersonesia risa*, Wynter-Blyth, *Butterfl. Indian Reg.*, pp. 199-200, pl. 34, fig. 2.

*Material examined* : One ♂, Deban North, Namdapha, 28.iv.1981 (S. Biswas and Party coll.). Wing exp. 42 mm.

*Distribution* : India : Kumaon (U. P.) to Sikkim, Assam, Arunachal Pradesh also Bhutan, Burma and Tenasserim.

*Remarks* : The species, popularly known as 'The Common Maplet', is rare in status. It is recorded for the first time from Namdapha, Tirap district, Arunachal Pradesh. The species is fairly common in Subansiri division of Arunachal Pradesh (Betts, 1950).

### Genus *Stibochiona* Butler

1868. *Stibochiona* Butler, *Proc. zool. Soc. Lond.*, p. 614.

The only species and subspecies known from India under this genus is represented here.

7. *Stibochiona nicea nicea* (Gray)

1833-46. *Adolia nicea* Gray, *Lep. Ins. Nepal*, p. 13, pl. 12, fig. 1.

1932. *Stibochiona nicea nicea*, Evans, *Identif. Indian Butterfl.*, p. 150.

*Material examined* : One ♂, Deban, 7.iv.1981, 1 ♂, Deban North, 28.iv.1981 (S. Biswas and Party coll.). Wing exp. 68 mm.

*Distribution* : India : Kulu (H. P.) to Sikkim, Assam, Arunachal Pradesh also Burma, Tenasserim to W. China.

*Remarks* : The subspecies, commonly known as 'The Popinjoy', is not rare in status. It is recorded for the first time from Namdapha, Tirap district, Arunachal Pradesh.

Genus *Hestina* Westwood

1850. *Hestina* Westwood, *Westw. & Hew. Gen. Di. Lep.*, p. 281.

The genus is represented by only one species from India which is dealt with hereunder.

8. *Hestina nama* Doubleday

1845. *Diadema nama* Doubleday, *Ann. Mag. Nat. Hist.*, 16 : 232.

1957. *Hestina nama*, Wynter-Blyth, *Butterfl. Indian Reg.*, p. 160, pl. 23, fig. 3.

*Material examined* : Two ♀ ♀, Hornbill, Namdapha; 14, 16.iv.1981. (S. Biswas and Party coll.). Wing exp. 94 mm.

*Distribution* : India : Simla (H. P.) to Assam, Sikkim, Darjeeling (W. B.), Arunachal Pradesh also Burma, Tenasserim, Malay Peninsula, Sumatra, Thailand and West China.

*Remarks* : The species is commonly known as 'The Circe', and is not rare in status. It mimics the chestnut tiger, *Danaus tytia* (Gray). The species is recorded for the first time from Namdapha, Tirap district, Arunachal Pradesh. Betts (1950) described the species as fairly common in Subansiri division.

Genus *Calinaga* Moore

1857. *Calinaga* Moore, *Cat Lep. Mus. E. I. C.*, 1 : 162.

Only a single species along with three subspecies are known, from this area, under this genus, of which one subspecies is presently dealt with. The other subspecies, *C. b. buddha* Moore was recorded from Subansiri division by Betts (1950), while *C. b. aborica* Tyt. is known from Abor Valley.

9. *Calinaga buddha brahma* Butler

1857. *Calinaga buddha* Moore, *Cat. Lep. Mus. E. I. C.*, 1 : 163, pl. 3a, fig. 5♂.  
 1885. *Calinaga brahma* Butler, *Ann. Mag. Nat. Hist.*, (5) 14 : 309.  
 1932. *Calinaga buddha brahma*, Evans, *Identif. Indian Butterfl.*, p. 149, pl. 21.

*Material examined* : Two ♂♂, 1 ♀, Hornbill, Namdapha, 11, 14.iv.1981 (S. Biswas and Party coll.). Wing. exp. 100 mm ♂, 108 mm ♀.

*Distribution* : India : Assam to Manipur, and N. Burma.

*Remarks* : The subspecies commonly known as 'The Freaks', is rare in status. Due to its close resemblance with chesnut tiger, *Danaus tytia* (Gray), some confusion generally arises in the identification of the species. The main difference lies in the thorax which is partly or entirely covered with orange hairs in the present subspecies. It is for the first time recorded from Namdapha, Tirap district, as well as from the entire Arunachal Pradesh.

Genus *Apatura* Fabricius

1807. *Apatura* Fabricius, *Illig. Mag.*, p. 280.

Out of a total of three species and subspecies known under this genus from Arunachal Pradesh, one species with subspecies is represented here. The other species and subspecies are *A. chevana* Moore and *A. p. parisatis* Westwood which were recorded from Subansiri division by Betts (1950).

10. *Apatura ambica ambica* Kollar

1844. *Apatura ambica* Kollar, *Hugel's Kaschmir*, 4(2) : 431.  
 1932. *Apatura ambica ambica*, Evans, *Identif. Indian Butterfl.*, p. 146, pl. 18.

*Material examined* : One ♂, 1 ♀ Hornbill, Namdapha, 13.iv.1981. (S. Biswas and Party coll.). Wing exp. 70 mm.

*Distribution* : India : Kashmir, Simla (H. P.), Mussouri (U. P.), Darjeeling (W. B.), Sikkim, Assam and Arunachal Pradesh also Pakistan, Chitral ; Burma and Thailand.

*Remarks* : The subspecies is commonly known as 'The Indian Purple Emperor', and is not rare in status. It is recorded for the first time from Namdapha, Tirap district, Arunachal Pradesh. According to Betts (1950) the subspecies is very common in status in Subansiri Division.

Genus *Neptis* Fabricius

1807. *Neptis* Fabricius, *Illig. Mag.*, 6 : 282.

Five species with subspecies under this genus are dealt with hereunder, all of which are recorded for the first time from Namdapha, Tirap district, as well as from the entire Arunachal Pradesh. Three more species with subspecies are also known from this area viz., *Neptis columella ophiana* Moore, *Neptis sankara quilta* Swin. and *Neptis radha radha* Moore.

11. *Neptis hordonia hordonia* (Stoll)

1791. *Papilio hordonia* Stoll, *Cramer's Pap. Exot. Suppl.*, pl. 33, fig. 4, 4D.

1932. *Neptis hordonia hordonia*, Evans, *Identif. Indian Butterfl.*, p. 172.

*Material examined* : One ♂, Hornbill, Namdapha, 13.iv.1981, (S. Biswas and Party coll.). Wing. exp. 46 mm.

*Distribution* : India : Dehra Dun (U. P.), to Assam, and South India also Burma, Tenasserim and Malayan subregion.

*Remarks* : The subspecies, popularly known as 'The Common Larcar', is recorded for the first time from Namdapha, Tirap district, as well as from the entire Arunachal Pradesh. Its status is common.

12. *Neptis nandina susruta* Moore

1857. *Neptis nandina* Moore, *Cat. Lep. Mus., E. I. C.*, 1 : 168.

1872. *Neptis susruta* Moore, *Proc. zool. Soc. Lond.*, p. 563, pl. 32, fig. 4♂.

1932. *Neptis nandina susruta*, Evans, *Identif. Indian Butterfl.*, p. 167.

*Material examined* : One ♂, Deban North, 28.v., 2 ♂♂, 3 ♀♀, Hornbill, 11, 13.iv, 1 ♂, Namdapha, 22.iv.1981 (S. Biswas and Party coll.). Wing exp. 50-56 mm. ♂, 60 mm. ♀.

*Distribution* : India : Assam, Khasi Hills, Sikkim and Burma.

*Remarks* : The subspecies, popularly known as 'The Clear Sailer', is common in status. It is recorded for the first time from Namdapha, Tirap district, as well as from the whole of Arunachal Pradesh.

13. *Neptis ananta ochracea* Evans

1857. *Neptis ananta* Moore, *Cat. Lep. Mus. E. I. C.*, 1 : 166, pl. 4a, fig. 3.

1932. *Neptis ananta ochracea* Evans, *Identif. Indian Butterfl.*, p. 168.

*Material examined* : One ♂, 1 ♀, Hornbill, Namdapha, 11, 13.iv.1981 (S. Biswas and Party coll.). Wing exp. 60-64 mm.

*Distribution* : India : Sikkim to Assam, also Dawnas, Burma.

*Remarks* : The subspecies commonly known as 'The Yellow Sailer', is rare in status. It is recorded for the first time from Namdapha, Tirap district, as well as from the whole of Arunachal Pradesh.

#### 14. *Neptis vikasi pseudovikasi* (Moore)

1829. *Neptis vikasi* Horsfield, *Cat. Lep. Mus. E. I. C.*, pl. 5, fig. 2, 2a.

1886. *Bimbisara pseudovikasi* Moore, *Lep. Ind.*, 2 : 7, pl. 291, figs. 1, 1a-1c, ♂, ♀.

1932. *Neptis vikasi pseudovikasi*, Evans, *Identif. Indian Butterfl.*, p. 168.

*Material examined* : One ♂, 1 ♀, Hornbill, Namdapha, 11, 13.iv.1981 (S. Biswas and Party coll.). Wing exp. 60 mm.

*Distribution* : India : Kumaon (U. P.) to Assam, Sikkim, and Bhutan.

*Remarks* : The subspecies, popularly known as 'The Dingy Sailer', is not rare in status. It is recorded for the first time from Namdapha, Tirap district, as well as from the entire Arunachal Pradesh.

#### 15. *Neptis magadha khasiana* Moore

1867. *Neptis magadha* Felder, *Novara Reise Lep. Rhop.*, p. 427.

1872. *Neptis khasiana* Moore, *Proc. zool. Soc. Lond.*, p. 562, pl. 32, fig. 7♂.

1932. *Neptis magadha khasiana*, Evans, *Identif. Indian Butterfl.*, p. 165.

*Material examined* : One ♂, Hornbill, Namdapha, 15.iv.1981 (S. Biswas and Party coll.). Wing exp. 58 mm.

*Distribution* : India : Assam, also Bhutan and Burma.

*Remarks* : The subspecies, rare in status, is commonly known as 'The Spotted Sailer'. It is recorded for the first time from Namdapha, Tirap district, as well as from the entire Arunachal Pradesh.

#### Genus *Pantoporia* Hubner

1816. *Pantoporia* Hubner, *Verz. bek. Schmett.*, p. 44.

Four species with subspecies under this genus are dealt with here-under. Betts (1950) recorded two species and subspecies from Subansiri division viz. *Pantoporia asura asura* Moore and *Pantoporia perius* Linn.



**16. *Pantoporia selenophora selenophora* (Kollar)**

1844. *Liminitis selenophora* Kollar, *Hugel's Kashmir*, 4(2) : 426, pl. 7, figs. 1, 2♂.  
1932. *Pantoporia selenophora selenophora*, Evans, *Identif. Indian Butterfl.*, p. 162.

*Material examined* : Two ♀ ♀, Hornbill, Namdapha, 11, 13.iv.1981 (S. Biswas and Party coll.). Wing exp. 60 mm.

*Distribution* : India : Mussouri (U. P.) to Assam, also Burma.

*Remarks* : The subspecies, commonly known as 'The Staff Sergeant', is rare in status Wynter-Blyth (1957). It is recorded for the first time from Namdapha, Tirap district and also from the entire Arunachal Pradesh.

**17. *Pantoporia pravara acutipennis* Fruhstorfer**

1857. *Athyma pravara* Moore, *Cat. Lep. Mus. E. I. C.*, 1 : 173, pl. 5a, fig. 4♂.  
1906. *Pantoporia acutipennis* Fruhstorfer, *Verh. zool. bot. Ges. Wien.*, 56 : 401.  
1932. *Pantoporia pravara acutipennis*, Evans, *Identif. Indian Butterfl.*, p. 164.

*Material examined* : One ♂, Hornbill, Namdapha, 11.iv.1981 (S. Biswas and Party coll.). Wing exp. 55 mm.

*Distribution* : India : Assam, also Burma, Tenasserim.

*Remarks* : The subspecies, rare in status, is popularly known as 'The Unbroken Sergeant'. It is recorded for the first time from Namdapha, Tirap district, as well as from the entire Arunachal Pradesh.

**18. *Pantoporia ranga ranga* (Moore)**

1857. *Athyma ranga* Moore, *Cat. Lep. Mus. E. I. C.*, 1 : 175, pl. 5a, fig. 6♂.  
1932. *Pantoporia ranga ranga*, Evans, *Identif. Indian Butterfl.*, p. 163.

*Material examined* : Three ♂ ♂, 1 ♀, Hornbill, Namdapha, 11, 13, 16.iv.1981 (S. Biswas and Party coll.). Wing exp. 60-62 mm.

*Distribution* : India : Sikkim, Assam, Arunachal Pradesh, also Bhutan, Burma, Tenasserim.

*Remarks* : The subspecies, commonly known as 'The Black Vein Sergeant', is rare in status. It is recorded for the first time from Namdapha, Tirap district, Arunachal Pradesh.

**19. *Pantoporia zeroce* (Moore)**

1872. *Athyma zeroce* Moore, *Proc. zool. Soc. Lond.*, p. 564 ♂.  
1957. *Pantoporia zeroce*, Wynter-Blyth, *Butterfl. Indian Reg.*, p. 185, pl. 30, fig. 1♂.

*Material examined* : One ♂, 2 ♀ ♀, Hornbill, Namdapha, 11.iv.1981 (S. Biswas and Party coll.). Wing exp. 58-60 mm.

*Distribution* : India : Kumaon (U. P.), Sikkim, Assam, also Bhutan, and Burma, Tenasserim.

*Remarks* : The species, not rare in status, is commonly known as 'The Small Staff Sergeant'. It is recorded for the first time from Namdapha, Tirap district and also from the entire Arunachal Pradesh.

### Genus *Cirrochroa* Doubleday

1848. *Cirrochroa* Doubleday, *Westw. Hew. Gen. Di. Lep.*, 1 : 157.

Out of a total of two species and subspecies known from Arunachal Pradesh under this genus, only one is represented here. The other is *Cirrochroa tyche mithila* (*mytila*) Moore reported from Subansiri division (Betts, 1950).

### 20. *Cirrochroa aoris aoris* Doubleday

1848. *Cirrochroa aoris* Doubleday, *Westw. Hew. Gen. Di. Lep.*, 1 : 157, pl. 21, fig. 2 ♀.

1932. *Cirrochroa aoris aoris*, Evans, *Identif. Indian Butterfl.*, p. 188.

*Material examined* : Ten ♂♂, Hornbill, 11, 13, 14, 2 ♂♂, Namdapha, 22.iv.1981 (S. Biswas and Party coll.). Wing exp. 80-90 mm.

*Distribution* : India : Sikkim, Calcutta (W. B.), Cachar, Khasi and Naga Hills, Assam, Arunachal Pradesh, also Bhutan.

*Remarks* : The nominotypical subspecies *aoris*, commonly known as 'The Large Yeoman', is not rare in status. It is recorded for the first time from Namdapha, Tirap district, Arunachal Pradesh.

### Genus *Neurosigma* Butler

1868. *Neurosigma* Butler, *Proc. zool. Soc. Lond.*, p. 615.

The nominotypical species with subspecies *doubledayi* under this genus is represented here.

### 21. *Neurosigma doubledayi doubledayi* (Westwood)

1848. *Acontia doubledayi* Westwood, *Cab. Orient. Ent.*, p. 76, pl. 37, fig. 4 ♀.

1932. *Neurosigma doubledayi doubledayi*, Evans, *Identif. Indian Butterfl.*, p. 155, pl. 21.

*Material examined* : Four ♂♂, Hornbill, Namdapha, 13-16, 1 ♀, Burma Nala, 24.iv.1981 (S. Biswas and Party coll.). Wing exp. 80-90 mm.

**Distribution :** India : Sikkim, Assam, and Chittagong, Bangladesh.

**Remarks :** The subspecies commonly known as 'The Panther', is rare in status. It is recorded for the first time from Namdapha, Tirap district and also from the whole of Arunachal Pradesh. Betts (1950) mentioned that he (*loc. cit*) has 'seen' the species from Subansiri division.

### Genus *Limnitis* Fabricius

1807. *Limnitis* Fabricius, *Illig. Mag.*, 6 : 281.

Out of a total of six species and subspecies known from this area under this genus, presently, four are dealt with hereunder. The other two species are *Limnitis zayla* Db. and Hew. and *Limnitis austeria austeria* Moore recorded from Subansiri division of which the last one was 'seen' by Betts as mentioned by him (1950).

### 22. *Limnitis daraxa* Doubleday

1850. *Limnitis daraxa* Doubleday, *Westw. Hew. Gen. Di. Lep.*, 2 : 276, pl. 34, fig. 4.

1957. *Limnitis daraxa*, Wynter-Blyth, *Butterfl. Indian Reg.*, p. 179.

**Material examined :** One ♂, 2 ♀♀, Hornbill, Namdapha, 11, 14.iv.1981 (S. Biswas and Party coll.). Wing exp. 60 mm.

**Distribution :** India : Kumaon (U. P.), Sikkim, Cachar, Naga and Khasi Hills, Assam, Arunachal Pradesh, also Bhutan, Burma, Tenasserim and Malay Peninsula.

**Remarks :** The species commonly known as 'The Green Commodore', is not rare in status. It is recorded for the first time from Namdapha, Tirap district, Arunachal Pradesh.

### 23. *Limnitis procris procris* (Cramer)

1777. *Papilio procris* Cramer, *Pap. Exot.*, 2, pl. 106, figs. E. F. ♀.

1932. *Limnitis procris procris*, Evans, *Identif. Indian Butterfl.*, p. 161.

**Material examined :** Two ♂♂, 1 ♀, Hornbill, Namdapha, 11, 16.iv.1981 (S. Biswas and Party coll.). Wing exp. 64-66 mm.

**Distribution :** India : Dehra Dun (U. P.) West Bengal, Assam, Arunachal Pradesh and Burma.

**Remarks :** The subspecies, not rare in status, is popularly known as 'The Commander'. It is recorded for the first time from Namdapha, Tirap district, Arunachal Pradesh.

24. *Limenitis zulema* Doubleday

1850. *Limenitis zulema* Doubleday, *Westw. Hew. Gen. Di. Lep.*, 2 : 276, pl. 34, fig. 1.  
 1957. *Limenitis zulema*, Wynter-Blyth, *Butterfl. Indian Reg.*, p. 180, pl. 28, fig. 3.

*Material examined* : One ♂, Hornbill, Namdapha, 11.iv.1981 (S. Biswas and Party coll.). Wing exp. 68 mm.

*Distribution* : India : Sikkim, Assam, also Bhutan, Burma and Tenasserim.

*Remarks* : The species commonly known as 'The Scarce White Commodore', is very rare in status. It is recorded for the first time from Namdapha, Tirap district, as well as from the entire Arunachal Pradesh.

25. *Limenitis danava* Moore

1857. *Limenitis danava* Moore, *Cat. Lep. Mus. E. I. C.*, 1 : 180, pl. 6a, fig. 2, ♂ ♀.  
 1905. *Auzakia danava*, Bingham, *Fauna Brit. India Butterflies*, 1 : 300-301.  
 1957. *Limenitis danava*, Wynter-Blyth, *Butterfl. Indian Reg.*, p. 178, pl. 28, fig. 1♂.

*Material examined* : One ♂, Hornbill, Namdapha, 16.iv.1981 (S. Biswas and Party coll.). Wing exp. 84 mm.

*Distribution* : India : Simla (H. P.), Naga Hills, Assam, also Burma.

*Remarks* : The species, rare in status, is popularly known as 'The Commodore'. It is recorded for the first time from Namdapha and also from the entire Arunachal Pradesh.

Genus *Charaxes* Ochseneimer

1816. *Charaxes* Ochseneimer, *Schmett. Eur.*, 4 : 18.

Out of a total of three species known from this area, under this genus, one species with subspecies is represented here. The other two species are *Charaxes marmax* Westwood and *Charaxes polyxena psaphon* Westwood, recorded from Subansiri division where it is common in status.

26. *Charaxes polyxena hierax* (Felder)

1779. *Papilio polyxena* Cramer, *Pap. Exot.*, 1 : pl. 54, figs. A. B. ♀.  
 1867. *Charaxes hierax* Felder, *Navara Reise Lep. Rhop.*, p. 442.  
 1932. *Charaxes polyxena hierax*, Evans, *Identif. Indian Butterfl.*, p. 141.

*Material examined* : One ♂, Namdapha, 22.iv.1981 (S. Biswas and Party coll.). Wing exp. 80 mm.

*Distribution* : India : Sikkim, Assam, Manipur, Arunachal Pradesh, also Sylhet, Bangladesh ; Bhutan ; Burma and Tenasserim.

*Remarks* : The subspecies popularly known as 'The Tawny Rajah', is recorded for the first time from Namdapha. There are some differences of opinion regarding the status of the subspecies. Evans (1932) mentioned that it is common while Varshney and Chanda (1971) recorded it from Miao, Tirap district and regarded it as rare in status.

### Genus *Symbrenthia* Hubner

1816. *Symbrenthia* Hubner, *Verz. bek. Schmett.*, p. 43.

Three species with subspecies under this genus are dealt with hereunder.

#### 27. *Symbrenthia hippoclus khasiana* Moore

1886. *Symbrenthia hippoclus* de Niceville, *Butt. Ind.*, 2 : 240.

1874. *Symbrenthia khasiana* Moore, *Proc. zool. Soc. Lond.*, p. 569.

1932. *Symbrenthia hippoclus khasiana*, Evans, *Identif. Indian Butterfl.*, p. 180.

*Material examined* : One ♂, Deban, 6.iv., 1 ♂, Hornbill, Namdapha, 13.iv.1981 (S. Biswas and Party coll.). Wing exp. 46 mm.

*Distribution* : India : Kulu (H. P.) to Assam and Arunachal Pradesh also Burma.

*Remarks* : The subspecies, common in status, is popularly known as 'The Common Jester'. It is recorded for the first time from Namdapha, Tirap district, Arunachal Pradesh.

#### 28. *Symbrenthia niphanda niphanda* Moore

1872. *Symbrenthia niphanda* Moore, *Proc. zool. Soc. Lond.*, p. 559.

1932. *Symbrenthia niphanda niphanda*, Evans, *Identif. Indian Butterfl.*, p. 181.

*Material examined* : Two ♀ ♀, Hornbill, Namdapha, 13, 14.iv.1981 (S. Biswas and Party coll.). Wing exp. 56 mm.

*Distribution* : India : Sikkim, Assam and Arunachal Pradesh.

*Remarks* : 'The Blue Tail Jester', as the subspecies is commonly known, is rare in status. It is recorded for the first time from Namdapha, Tirap district, Arunachal Pradesh.

29. *Symbrenthia hypselis cotanda* (Moore)

1823. *Vanessa hypselis* Godart, *Encycl. Meth.*, 9 : (Suppl.) : 818.  
 1874. *Symbrenthia cotanda* Moore, *Proc. zool. Soc. Lond.*, p. 569, pl. 66, fig. 9♂.  
 1932. *Symbrenthia hypselis cotanda*, Evans, *Identif. Indian Butterfl.*, p. 181, pl. 24, fig. 38.

*Material examined* : Two ♀ ♀, Hornbill, Namdapha, 11, 13.iv.1981 (S. Biswas and Party coll.). Wing exp. 48-50 mm.

*Distribution* : India : Kumaon (U. P.), Sikkim, Assam, Arunachal Pradesh and Burma.

*Remarks* : The subspecies commonly known as 'The Spotted Jester', is not rare in status. It is recorded for the first time from Namdapha, Tirap district, Arunachal Pradesh.

Genus *Euthalia* Hubner

1816. *Euthalia* Hubner, *Verz. bek. Schmett.*, p. 41.

Out of a total of nine species and subspecies known from this area under this genus, only two are represented here. Other species and subspecies are *Euthalia jahnu jahnu* Moore, *E. lubentina indica* Fruh., *E. telchinia* Men., *E. duda* Stg., *E. s. sahadeva* Moore, *E. phemius* Db. and Hew. and *E. f. francaiae* Gray.

30. *Euthalia julii* (Bougainville)

1837. *Nymula julii* Bougainville, *Voy. Thetis.*, 2 : 345, pl. 44, figs. 4, 4 bis. ♀.  
 1957. *Euthalia julii*, Wynter-Blyth, *Butterfl. Indian Reg.*, p. 164, pl. 24, fig. 5♀.

*Material examined* : One ♀, Hornbill, Namdapha, (S. Biswas and Party coll.). Wing exp. 76 mm.

*Distribution* : India : Kumaon (U. P.) to Sikkim, Assam, Arunachal Pradesh and Burma.

*Remarks* : The species is popularly known as 'The Common Earl'. It is recorded for the first time from Namdapha, Tirap district, Arunachal Pradesh. The status of the species is common. The subspecies could not be determined due to the damaged condition of the specimen. Betts (1950), however, recorded the subspecies *E. julii appiades* Mon. from Subansiri division, Arunachal Pradesh.

31. *Euthalia francae rajah* Felder

1846. *Adolias francae* Gray, *Lep. Ins. Nep.*, p. 12, pl. 14.

1860. *Euthalia raja* Felder, *Wien. Ent. Mon.*, 4 : 397.

1932. *Euthalia francae rajah*, Evans, *Identif. Indian Butterfl.*, p. 155, pl. 20, fig. 18/18.

*Material examined* : One ♀, Burma Nala, 24.iv.1981 (S. Biswas and Party coll.). Wing exp. 80 mm.

*Distribution* : India : Assam, and Burma.

*Remarks* : The subspecies, commonly known as 'The French Duke', is rare in status. It is recorded for the first time from Namdapha, Tirap district, as well as from the entire Arunachal Pradesh.

## SUMMARY

The paper incorporates a systematic account of 31 species and subspecies of Nymphalidae from Namdapha Wild Life Sanctuary, Tirap district, Arunachal Pradesh, all of which are new records from this area. 29 species and subspecies from Tirap district alone and 14 species and subspecies from the entire Arunachal Pradesh are also recorded for the first time.

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## REFERENCES

- BETTS, F. N. 1950. On a collection of butterflies from Balipara Frontier Tract and the Subansiri area (Northern Assam).—*J. Bombay nat. Hist. Soc.*, 49(3) : 488-503, 1 map.
- EVANS, W. H. 1932. *Identification of Indian Butterflies*, ed. 2, x + 454 pp., 32 pls., 9 figs.
- VARSHNEY, R. K. and CHANDA, S. K. 1971. Butterflies of North-Eastern India.—*Indian Mus. Bull.*, 6(1) : 28-53, 2 maps.
- WYNTER-BLYTH, M. A. 1957 *Butterflies of the Indian Region*, xx + 523 pp.—Bombay.