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Checklist of Butterflies (Lepidoptera: Rhopalocera) of Union Territory Jammu and Kashmir, India

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Abstract

Checklist of all known butterfly species ever recorded in the Union Territory of Jammu & Kashmir (UT J&K) has been compiled. This checklist covers 308 species belonging to 154 genera under 14 subfamilies of 6 families. Eighteen species of butterflies are being reported for the first time from Jammu and Kashmir. A complete bibliographic reference of all known species has been incorporated by consulting all previous published literature on butterflies of Jammu & Kashmir.

Keywords: Butterflies, Checklist, Himalayas, India, Jammu & Kashmir, Lepidoptera

Introduction

Butterflies are holometabolous group of living organism as they complete metamorphosis cycles in four stages, viz. egg, caterpillar, pupa and adult (Gullan and Cranston, 2004; Capinera, 2008). These seasonal polymorphism groups were useful in natural ecosystem as pollinators and as food in the ecological food chain. India has 1,327 total species of butterflies (Varshney & Smetacek, 2015; Upadhye *et al.,* 2020). In 2019, Jammu and Kashmir state was divided into 2 Union Territories (UTs): UT Jammu and Kashmir (20 districts, Figure 1a) and UT Ladakh (2 districts) (Anonymous, 2019). The current study is covering 20 districts of UT Jammu and Kashmir which is surrounded by Pakistan-occupied Kashmir (PoK) to the west, Gilgit-Baltistan to the north-west, Ladakh to the north-east, Himachal Pradesh and Punjab (state) to the south-east, and Punjab (province of Pakistan) to the south-west. Total area is 42,241 sq. km (Jammu and Kashmir, 2020)and divided two divisions (10 districts each):Jammu division (Jammu, Kathua, Samba, Udhampur, Reasi, Rajouri, Poonch, Doda, Ramban and Kishtwar districts) and Kashmir division (Srinagar, Anantnag, Kulgam, Budgam, Pulwama, Shopian, Ganderbal, Bandipura, Baramulla and Kupwara districts) (Anonymous, 2019). J&K lies in Western Himalayas. Pir Panjal and a part of the Shivalik are main mountain ranges of the UT. Kashmir valley is bounded on the SW by the Pir Panjal Range and on the NE by the main Himalayan Range. The highest peak of J&K is Machoi Peak (5,458 meters). It is situated between Amarnath cave and Zojila pass (3,528m) which connects UT J&K (Ganderbal district) to its west side with the UT Ladakh (Drass valley).

The history of the study of Rhopalocerous fauna of J&K dates back to the middle of the 19th century when an Austrian entomologist Vincenz Kollar explored it and described many new taxa from the region (Kollar, 1844, 1848). During the British rule on the Indian sub continent (1857-1947) many British entomologists also collected and studied butterflies of Kashmir. Lang (1868), Moore (1872, 1875), Holland (1896) and Tytler (1926A) deserve special mention in this regard. After the independence not much work was carried out on butterflies of J&K. Over the last decade, some local researcher and photographers have explored some parts of the UT extensively and not only added to the known distribution of the butterflies (Qureshi *et al.,* 2013-A, 2013-B, 2014; Sharma & Sharma, 2017A, 2017B, 2018A, 2018B, 2020) but also published so many new records for the UT, e.g. Sharma and Sharma (2017A, 2017B, 2018A, 2018B), Sheikh (2018) and Sheikh and Parey (2019A, 2019B). Qureshi (2020) compiled a list of 408 butterfly taxa for J&K state but he also included butterflies of Ladakh and Gilgit-Baltistan.

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After thoroughly studying the published literature of Bhagat (2017-A; 2017-B), Khan *et al.,* (2011) & Qureshi *et al.,* (2013-A) pertaining to Jammu & Kashmir many previous species recorded have been either added or removed by appropriate taxonomic treatments. We have made sure to include only those species in this checklist which are definitely known to be found in our study area.

Material and Methods

Thirty field trips were undertaken between 2014 and 2020 in different seasons in order to explore and investigate butterflies of J&K. The specimens were collected by net sweeping method followed by complete photography of the specimens (using Canon DSLR 1300D). The specimens were killed using ethyl acetate as killing agent and also by Evans` method (Evans, 1932) and after kill, the butterflies were relaxed and then stretched on insect stretching boards and were kept in insect cabinets in the Museum of Department of Zoology, Baba Ghulam Shah Badshah University Rajouri (J&K). No species was collected which is included in the schedule of Wildlife protection Act, 1972.

Gasse (2018) has been used as baseline work for this study, as he clearly defined the distributional ranges of the butterflies which occur in the UT J&K and UT Ladakh. Tshikolovets (2005) is also a valuable reference for understanding the range of the butterflies of Ladakh and J&K. Varshney & Smetacek (2015) is also an important reference on the Indian butterflies but they also included the species occuring in Gilgit-Baltistan (PoK) and used term Jammu and Kashmir for the species which are limited to the recently carved out UT Ladakh. All the records from J&K (excluding Ladakh) from Indian Foundation for Butterflies website (http://www.ifoundbutterflies.org) have been added in the checklist as well. This website is the largest online photographic database of the Indian butterflies. The identification of butterflies in this study was done with the help of available literatures like Evans, 1932; Wynter-Blyth, 1957; Kehimkar, 2016; Smetacek, 2018.

Abbreviations

BGSBU: Baba Ghulam Shah Badshah University (Rajouri)

BMNH: British Museum of Natural History (London)

J&K: Jammu &Kashmir

MDZ: Museum of Department of Zoology (Baba Ghulam Shah Badshah University, Rajouri)

Mt: Mountain

N: North

NE: North-east

NW: North-west

N.P: National park



Figure 1a. Map showing Union Territory of Jammu & Kashmir with 20 districts.

SW: South-west

Ssp: Subspecies

T.L: Type locality

UT: Union territory

UTJ&K: Union territory Jammu &Kashmir

Var: Variation (usually described in the old literature as a ssp. but later synonymized with some other ssp.)

W: West

WLS: Wildlife Sanctuary

Results

Taxonomic Account

Order LEPIDOPTERA Linnaeus, 1758

Superfamily PAPILIONOIDEA

Family HESPERIDAE

Subfamily COELIADINAE

1. *Burara oedipodea* (Swainson, 1820) ssp. ***belesis*** (Mabille, 1876)

Common name: **Branded Orange Awlet**.

Distribution: Muradpur, Rajouri (Annonymous, 2020-G2).

2. *Hasora chromus* (Cramer, 1780) (Figure 1)

Common name: **Common Banded Awl**.

Distribution: Botanical Garden, University of Jammu (Taslima Sheikh, New record).

Material examined: India: J&K, University of Jammu, Botanical Garden, 340 m msl, 12-ix-2017, 32º42'59.1"N 74º51' 59.1"E, coll. T. Sheikh, (MDZ).

3. *Badamia exclamationis* (Fabricius, 1775) (Figure 2)

Common name: **Brown Awl**.

Distribution: Bhaderwah, Doda district (Saji *et al.,* 2020-D); BGSBU, Rajouri district (Taslima Sheikh, New record).

Material examined: India: J&K, Rajouri, BGSBU, 1200m, 10.vi.2018, 33º28'60.7"N 74 º14'50.5" E, coll. T. Sheikh, (MDZ).

4. *Choaspes xanthopogon* (Kollar, 1844)

Common name: **Similar Awlking**.

Distribution: Kashmir (Evans, 1949; Varshney & Smetacek, 2015; Gasse, 2018).

Subfamily: PYRGINAE.

5. *Lobocla liliana* (Atkinson, 1871) ssp. ***ignatius*** (Ploetz, 1882)

Common name: **Marbled Flat**.

Distribution: Kashmir (Swinhoe, 1912; Evans, 1927; Varshney & Smetacek, 2015; Kehimkar, 2016).

6. *Celaenorrhinus leucocera* (Kollar, 1844)

Common name: **Common Spotted Flat**.

Distribution: Kashmir (Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Batote, Ramban district (Saji *et al.,* 2020-F).

7. *Celaenorrhinus munda* (Moore, 1884)

Common name: **Himalayan Spotted Flat**.

Distribution: Kashmir (Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018).

8. *Celaenorrhinus dhanada* (Moore, 1866)

Common name: **Himalayan Yellow-banded Flat**.

Distribution: Batote, Ramban district (Anonymous, 2020-I).

9. *Sarangesa dasahara* (Moore, 1866)

Common name: **Common Small Flat**.

Distribution: Billawar, Kathua district (Sanjeev Gupta, first record photographed in 2019); Jasrota, Kathua district (Saji & Soman, 2020-C).

10. *Pseudocoladenia faith* (Kollar, 1844)

Common name: **Large Pied Flat**.

Distribution: Kashmir (Gasse, 2018); Batote, Ramban district (Kunte, 2020).

11. *Coladenia indrani* (Moore, 1866)

Common name: **Tricoloured Pied Flat**.

Distribution: Jasrota WLS, Kathua district (Saji *et al.,* 2020-H).

12. *Seseria dohertyi* (Watson, 1893)

Common name: **Himalayan White Flat**.

Distribution: Kashmir (Gasse, 2018).

13. ***Tagiades menaka*** (Moore, 1866)

Common name: **Spotted Snow Flat**.

Distribution: Kashmir (Moore, 1874; Varshney & Smetacek, 2015; Smetacek, 2018; Gasse, 2018); Raika, Manda, Chatha (Sheikh, 2018).

14. ***Tagiades cohaerens*** (Mabille, 1914) ssp. ***cynthia*** (Evans, 1934)

Common name: **Striped Snow Flat**.

Distribution: Bhaderwah, Doda district (Anonymous, 2020-X).

15. ***Caprona ransonnetii*** (Felder, 1868) ssp. ***potiphera*** (Hewitson, 1873)

Common name: **Golden Angle**.

Distribution: Raika (Sheikh & Parey, 2019-A) Jasrota WLS, Kathua district (Saji & Churi, 2020A).

16. ***Carcharodus alceae*** (Esper, 1780) ssp. ***gooraisa*** (Evans, 1949)

Common name: **Plain Marbled Skipper**.

Distribution: Kashmir (Goorais) (Evans, 1949; Varshney & Smetacek, 2015; Gasse, 2018); Nagin lake; Shalimar garden (Srinagar district); Bhaderwah, Doda district (Anonymous, 2020-H2).

17. ***Carcharodus dravira*** (Moore, 1875)

Common name: **Tufted Marbled Skipper**.

Distribution: Kashmir (Moore, 1875; Evans, 1949; Varshney & Smetacek, 2016; Gasse, 2018).

18. ***Spialia galba*** (Fabricius, 1793)

Common name: **Indian Grizzled Skipper**.

Distribution: Kashmir (Evans, 1949; Gasse, 2018); University of Jammu, Jammu district (Saji & Bhakare, 2020); Sunjwan, Jammu; Chingus, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, Chingus, 1200 m msl, 15-ix-2019, 32°44'31.6"N 74°50'17.7"E, coll. T. Sheikh, (MDZ).

19. ***Pyrgus cashmirensis*** (Moore, 1874)

Common name: **Kashmir Skipper**.

Distribution: Kashmir (Moore, 1874; Evans, 1949; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018).

20. ***Aeromachus stigmatus*** (Moore, 1878)

Common name: **Veined Scrub Hopper**.

Distribution: Kashmir (Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018).

21. ***Actinor radians*** (Moore, 1878)

Common name: **Veined Dart**

Distribution: J&K (Varshney & Smetacek, 2015)

22. ***Udaspes folus*** (Cramer, 1775)

Common name: **Grass Demon**.

Distribution: BGSBU, Rajouri district (Sheikh & Parey, 2019-B).

23. ***Matapa aria*** (Moore, 1866)

Common name: **Common Redeye**.

Distribution: Jasrota WLS, Kathua district (Sharma & Sharma, 2020).

24. ***Erionota torus*** (Evans, 1941)

Common name: **Banana Skipper**.

Distribution: Trikutanagar, Jammu district (Sharma & Sharma, 2020).

25. ***Suastus gremius*** (Fabricius, 1798) (Figure 3)

Common name: **Indian Palm Bob**.

Distribution: University of Jammu, Jammu district (Saji *et al.,* 2020-V); BGSBU, Rajouri district (Taslima Sheikh, New record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 16-iii-2020, 33°23'38.9"N 74 °20'26.6"E, coll. T. Sheikh, (MDZ).

26. ***Taractrocera maevius*** (Fabricius, 1793) ssp. ***sagara*** (Moore, 1866)

Common name: **Common Grass Dart**.

Distribution: Kashmir (Varshney & Smetacek, 2015; Gasse, 2018); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 10-iii-2019, 33°23'29.2"N 74°20'11.6"E, coll. T. Sheikh, (MDZ).

27. ***Taractrocera danna*** (Moore, 1865)

Common name: **Himalayan Grass Dart**.

Distribution: Kashmir (Evans, 1949; Varshney & Smetacek, 2015; Gasse, 2018).

28. ***Potanthus pseudomaesa*** (Moore, 1881) ssp. ***clio*** (Evans, 1932)

Common name: **Indian Dart**.

Distribution: Kashmir (Evans, 1949; Varshney & Smetacek, 2015; Gasse, 2018).

29. ***Potanthus dara*** (Kollar, 1844)

Common name: **Himalayan Dart**.

Distribution: Kashmir (Mabille, 1909; Varshney & Smetacek, 2015; Gasse, 2018); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 21-x-2019, 33°23'39.9"N 74°20'29.3"E, coll. T. Sheikh, (MDZ).

30. ***Telicota colon*** (Fabricius, 1775)

Common name: **Pale Palm Dart**.

Distribution: Samba, Manda, Raika, Kathua (Sheikh, 2018).

31. ***Parnara guttata*** (Bremer & Grey, 1852) ssp. ***mangala*** (Moore, 1866):

Common name: **Straight Swift**.

Distribution: Kashmir (Evans, 1949; Varshney & Smetacek, 2015; Gasse, 2018); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 16-vii-2019, 33°23'38.8"N 74"20'29.3"E, coll. T. Sheikh, (MDZ).

32. ***Parnara bada*** (Moore, 1878)

Common name: **Ceylon Swift**.

Distribution: Kashmir (Evans, 1949; Varshney & Smetacek, 2015; Gasse, 2018); Sunjwan, Jammu district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Jammu, Sunjwan, 340-400 m msl, 04-x-2019, 32°42'15.1"N 74°55'26.8"E, coll. T. Sheikh, (MDZ).

33. ***Gegenes pumilio*** (Hoffmansegg, 1804)

Common name: **Pygmy Swift**.

Distribution: Kashmir (Evans, 1949; Varshney & Smetacek, 2015; Gasse, 2018); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 02-iv-2019, 33°23'39.9"N 74°21' 30.4"E, coll. T. Sheikh, (MDZ).

34. ***Gegenes nostrodamus*** (Fabricius, 1793)

Common name: **Dingy Swift**.

Distribution: J&K (Varshney & Smetacek, 2015; Kehimkar, 2016).

35. ***Borbo cinnara*** (Wallace, 1866)

Common name: **Rice Swift**.

Distribution: Samba, Manda, Raika (Sheikh, 2018); BGSBU, Rajouri (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 03-x-2019, 33°24'40.9"N 74°20'30.5"E, coll. T. Sheikh, (MDZ).

36. ***Borbo bevani*** (Moore, 1878)

Common name: **Bevan's Swift**.

Distribution: Kashmir (Evans, 1949; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Sunjwan, Jammu district; BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 02-viii-2019, 33°23'39.9"N 74°20'29.3"E, coll. T. Sheikh, (MDZ).

37. ***Pelopidas mathias*** (Fabricius, 1798)

Common name: **Small Branded Swift**.

Distribution: Kashmir (Evans, 1949; Gasse, 2018); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); University of Jammu, Jammu district (Chandrasekharan, 2020-B).

38. ***Pelopidas agna*** (Moore, 1866)

Common name: **Obscure Branded Swift**.

Distribution: Kashmir (Evans, 1949; Varshney & Smetacek, 2015; Gasse, 2018).

39. ***Pelopidas thrax*** (Huebner, 1821)

Common name: **White Branded Swift**.

Distribution: Kashmir (Varshney & Smetacek, 2015).

40. *Pelopidas sinensis* (Mabille, 1877)

Common name: **Chinese Swift**.

Distribution: Kashmir (Gasse, 2018); BGSBU, Rajouri (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 18-vii-2019, 33°23'45.2"N 74°20'49.8"E, coll. T. Sheikh, (MDZ).

41. *Polytremis discreta* (Elwes & Edwards, 1897)

Common name: **Himalayan Swift**.

Distribution: Kashmir (Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018).

42. *Polytremis eltola* (Hewitson, 1869)

Common name: **Yellowspot Swift**.

Distribution: Kashmir (Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Raika, Jammu district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Jammu district, Raika, 327 m msl, 23-vii-2020, 33°43'47.4"N 74°54'20.9"E, coll. T. Sheikh, (MDZ).

Superfamily: PAPILIONOIDEA

Family: PAPILIONIDAE

Subfamily: PARNASSINAE

43. *Parnassius ephaphus* (Oberthur, 1879)

Common name: **Common Red Apollo**.

Distribution: Kashmir (Stichel, 1907-A; Fruhstorfer, 1909; Evans, 1927; Bryk, 1923; Smith, 1994; Kehimkar, 2016); Kashmir (Range map) (Tshikolovets, 2005); North Kashmir (Talbot, 1939); Ludarwas Ganj, N. of Sonamarg (Sugisawa, 1993; Dietz, 2001); Mt. Kolahoi (Sugisawa, 1996).

44. *Parnassius hardwickii* (Gray, 1831)

Common name: **Common Blue Apollo**.

Distribution: Kashmir (Moore, 1874; Stichel, 1907-A; Fruhstorfer, 1909; Rothschild, 1909; Antram, 1924; Collins & Morris, 1985; Kehimkar, 2016; Gasse, 2018); Zojila Pass; Pir Panjal; Sham Chalsi (Eisner, 1958); Zoji-La, Kashmir (Sakai *et al.,* 2002); Bhaderwah, Doda district (Anonymous, 2020).

45. *Parnassius stenosemus* (Honrath, 1890) ssp. ***atkinsoni*** (Moore, 1902)

Common name: **Pir Panjal Banded Apollo**.

Distribution: Kashmir (Rothschild, 1909; D'Abrera, 1990; Dietz, 2002); North Kashmir (Fruhstorfer, 1909); S. & E. Kashmir (Evans, 1927); Pir Panjal, N. Kashmir (Moore, 1902; Stichel, 1907-B; Fruhstorfer, 1909; Bang-Haas, 1915; Bryk, 1923; Gasse, 2018); Kishtwar mountains (Avinoff, 1916); Pir Panjal; Ludarwas Ganj near Sonamarg; Pantsal pass near Amarnath (Eisner, 1976); Upper Amarnath, Kashmir; Mt. Kolahoi, Kashmir; Zoji-La, Pir Panjal (Sakai *et al.,* 2002).

46. *Parnassius simo* (Gray, 1853) var. ***chenrezi*** (Wyatt, 1960)

Common name: **Black-edged Apollo**.

Distribution: Ludarwas Ganj, North of Sonamarg, NE Kashmir (Wyatt, 1960); Kashmir, N. India (Ackery, 1975); J&K (Collins & Morris, 1985; Fruhstorfer, 1909); Kashmir, adjacent to Ladak (Gasse, 2018).

47. *Parnassius charltonius* (Gray, 1853) ssp. ***serenissimus*** (Bryk, 1932)

Common name: **Regal Apollo**.

Distribution: Kashmir (Stichel, 1907-A; Fruhstorfer, 1909; Evans, 1920; Collins & Morris, 1985; D'Abrera, 1990; Kehimkar, 2016); Pir Panjal (Bryk, 1932; Gasse, 2018); Mt. Kolahoi (Eisner, 1978); Kolahoi mountains, (N.E. of Srinagar) (Weiss, 1991); Amarnath (Sakai *et al.,* 2002)

Subfamily: PAPILIONINAE.

48. *Pachliopta aristolochiae* (Fabricius, 1775) (Figure 4)

Common name: **Common Rose**.

Distribution: Bani, Kathua district (Taslima Sheikh, New record).

Material examined: India: J&K, Kathua, Bani, 1280 m msl, 09-vii-2019, 32°42'28.2"N 75°48' 51.1"E, coll. T. Sheikh, (MDZ).

49. *Byasa polyeuctes* (Doubleday, 1842) ssp. ***letincius*** (Fruhstorfer, 1908)

Common name: **Common Windmill**.

Distribution: Kashmir (Moore, 1874; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018);

Bhaderwah, Doda district (Baidya & Karmakar, 2020); Gool, Ramban district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Ramban, Gool, 2292 m msl, 27-vi-2020, 33°13'28.9"N 74 °04' 35.9"E, coll. T. Sheikh, (MDZ).

50. ***Byasa dasarada*** (Moore, 1858) ssp. ***ravana*** (Moore, 1858)

Common name: **Great Windmill**.

Distribution: Kashmir (Talbot, 1939; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Bani, Kathua district (Bhakare, 2020-A); Gool, Ramban district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Ramban, Gool, 2292 m msl, 28-vi-2020, 33°13'28.8"N 74°04'35.9"E, coll. T. Sheikh, (MDZ).

51. ***Papilio bianor*** (Cramer, 1777) ssp. ***polyctor*** (Boisduval, 1836)

Common name: **Common Peacock**.

Distribution: Kashmir (Moore, 1874; Talbot, 1939; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Samba, Ramnagar, Rajouri (Sheikh, 2018); Bani, Kathua district; Mantalai, Udhampur district (Anonymous, 2020-R).

52. ***Papilio arcturus*** (Westwood, 1842) ssp. ***arius*** (Rothschild, 1908)

Common name: **Blue Peacock**.

Distribution: Kashmir (Evans, 1932; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018).

53. ***Papilio protenor*** (Cramer, 1775)

Common name: **Spangle**.

Distribution: Kashmir (Moore, 1874; Evans, 1932; Varshney & Smetacek, 2015; Kehimkar, 2016; Smetacek, 2018; Gasse, 2018); Bhaderwah, Khelani (Doda district); Bani, Kathua district (Karmakar, 2020).

54. ***Papilio polytes*** (Linnaeus, 1758)

Common name: **Common Mormon**.

Distribution: Kashmir (Moore, 1874; Gasse, 2018); Bani, Doda, Raika, Bhaderwah, Jasrota (Sheikh, 2018); Sunjwan, Jammu; BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 13-vii-2019, 33°23'39.8"N 74°20'29.4"E, coll. T. Sheikh, (MDZ).

55. ***Papilio demoleus*** (Linnaeus, 1758)

Common name: **Lime Butterfly**.

Distribution: Kashmir (Moore, 1874; Gasse, 2018); Bani, Doda, Raika (Sheikh, 2018); University of Jammu; Jasrota WLS, Kathua district (Saji *et al.,* 2020-S); Sunjwan, Jammu; BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 13-v-2019, 33°23'41.8"N 74°20'47.0"E, coll. T. Sheikh, (MDZ).

56. ***Papilio machaon*** (Linnaeus, 1758) ssp. ***asiatica*** (Menetries, 1855)

Common name: **Common Yellow Swallowtail**.

Distribution: Kashmir (Moore, 1874; Varshney & Smetacek, 2015; Gasse, 2018); Goorias valley (South, 1902); Kupwara district (Qureshi *et al.,* 2013-A); Dachigam N.P. (Qureshi *et al.,* 2014); Bhaderwah, Doda district (Lovalekar *et al.,* 2020-B); Budhal, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, Budhal, 1700 m msl, 04-viii-2019, 33°22'44.9"N 74°38'48.1"E, coll. T. Sheikh, (MDZ).

57. ***Chilasa agestor*** (Gray, 1831) ssp. ***govindra*** (Moore, 1864)

Common name: **Tawny Mime**.

Distribution: Kashmir (Bingham, 1907; Evans, 1932; Talbot, 1939; Varshney & Smetacek, 2015; Kehimkar, 2016; Smetacek, 2018; Gasse, 2018).

58. ***Chilasa clytia*** (Linnaeus, 1758)

Common name: **Common Mime**.

Distribution: Kashmir (Moore, 1874; Gasse, 2018); University of Jammu (Sharma & Sharma, 2017-B); Samba, Manda, Raika, Bani (Sheikh, 2018); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 13-viii-2019, 33°23'38.8"N 74°20'29.9"E, coll. T. Sheikh, (MDZ).

59. ***Graphium cloanthus*** (Westwood. 1841)

Common name: **Glassy Bluebottle**.

Distribution: Kashmir (Moore, 1874; Evans, 1932; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Bani, Kathua district (Anonymous, 2020-L).

60. ***Graphium sarpedon*** (Linnaeus, 1758) ssp. ***sirkari*** (Page & Treadaway, 2013)

Common name: **Common Bluebottle**.

Distribution: Kashmir (Moore, 1874; Evans, 1932; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Samba, Jasrota, Bani, Billawar (Sheikh, 2018); Environmental park, Jammu (Saji, 2020-B); Budhal, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, Budhal, 1700 m msl, 14-vii-2019, 33°22'44.8"N 74°38'48.2"E, coll. T. Sheikh, (MDZ)

61. ***Graphium doson*** (C. & R. Felder, 1864) ssp. ***axionides*** (Page & Treadaway, 2014)

Common name: **Common Jay**.

Distribution: Jammu (Varshney & Smetacek, 2015; Sharma & Sharma, 2017-A; Gasse, 2018); Raika, Jammu district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Jammu, Raika, 327 m msl, 15-vii-2019, 33°43'47.4"N 74°54'20.9"E, coll. T. Sheikh, (MDZ).

62. ***Graphium eurous*** (Leech, 1893) ssp. ***cashmirensis*** (Rothschild, 1895)

Common name: **Sixbar Swordtail**.

Distribution: Kashmir (Talbot, 1939; Evans, 1932; Varshney & Smetacek, 2015; Smetacek, 2018; Kehimkar, 2016; Gasse, 2018).

Superfamily: PAPILIONOIDAE

Family: PIERIDAE

Subfamily: PIERINAE

63. ***Aporia agathon*** (Gray, 1831) ssp. ***phryxe*** (Boisduval, 1836)

Common name: **Great Blackvein**.

Distribution: Kashmir (Evans, 1932; Talbot, 1939; Varshney & Smetacek, 2015; Kehimkar, 2016; Smetacek, 2018; Gasse, 2018).

64. ***Aporia belucha*** (Marshall, 1882)

Common name: **Baluchi Blackvein**.

Distribution: J&K (Varshney & Smetacek, 2015); North-east Kashmir (Gasse, 2018).

65. ***Aporia nabellica*** (Boisduval, 1836)

Common name: **Dusky Blackvein**.

Distribution: Kashmir (Gasse, 2018); Gulmarg, Baramulla district (Anonymous, 2020).

66. ***Aporia soracta*** (Moore, 1857)

Common name: **Himalayan Blackvein**.

Distribution: Kashmir (Bingham, 1907; Antram, 1924; Evans, 1932; Talbot, 1939; Varshney & Smetacek, 2015; Kehimkar, 2016; Smetacek, 2018); South-east Kashmir (Gasse, 2018); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Bhaderwah, Doda (Anonymous, 2020-A2); Budhal, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, Budhal, 1700 m msl, 4-viii-2019, 33°21'51.5"N 74°42'51.8"E, coll. T. Sheikh, (MDZ).

67. ***Pieris brassicae*** (Linnaeus, 1758) ssp. ***nepalensis*** (Gray, 1846):

Common name: **Large CabbageWhite**.

Distribution: Kashmir (Moore, 1874; Holland, 1896; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); NE Kashmir (Range map) (Tshikolovets, 2005); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Dal lake, Srinagar (Kunte *et al.,* 2020-D); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 04-iv-2019, 33°23'36.1"N 74°20'30.7"E, coll. T. Sheikh, (MDZ).

68. ***Pieris canidia*** (Linnaeus, 1768) ssp. ***indica*** (Evans, 1926)

Common name: **Asian Cabbage White**.

Distribution: Kashmir (Moore, 1874; Holland, 1896; Bingham, 1907; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Sonamarg (Tshikolovets, 2005); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Samba, Manda, Raika, Bhaderwah, Bani (Sheikh, 2018); Pahalgam, Anantnag (Kashmir south) district; Dal lake, Srinagar district (Kunte *et al.,* 2020-E); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 13-iv-2019, 33º23'36.2"N 74º20'30.6"E, coll. T. Sheikh, (MDZ).

69. ***Pieris rapae*** (Linnaeus, 1758)

Common name: **Small Cabbage White**.

Distribution: Kashmir (South, 1902; Antram, 1924; Talbot, 1939; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018).

70. ***Pieris ajaka*** (Moore, 1865)

Common name: **Himalayan Green-veined White**.

Distribution: Kashmir (Moore, 1874; Fruhstorfer, 1910-B; D'Abrera, 1990; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Goorais valley (South, 1902); Budhal, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, Budhal, 1700 m msl, 18-vii-2019, 33º21'51.3ºN 74º42'52.4"E, coll. T. Sheikh, (MDZ).

71. ***Pieris deota*** (de Niceville, 1884)

Common name: **Dusky White**.

Distribution: Kashmir (Fruhstorfer, 1910-B; Evans, 1932; Talbot, 1939; D'Abrera, 1990; Varshney & Smetacek, 2015); NE Kashmir (Zoji La area) (Gasse, 2018).

72. ***Pontia daplidice*** (Linnaeus, 1758) ssp. ***moorei*** (Rober, 1907):

Common name: **Bath White**.

Distribution: Kashmir (Lang, 1868; Moore, 1874; Holland, 1896; Rober, 1907; Antram, 1924; Wynter-Blyth, 1957; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Goorais valley, Rajouri (South, 1902); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Kangan, Ganderbal district; Bhaderwah, Doda district; Srinagar district; Pahalgam, Anantnag district (Churi *et al.,* 2020-B).

73. ***Pontia callidice*** (Huebner, 1800) ssp. ***kalora*** (Moore, 1865):

Common name: **Lofty Bath White or Peak White**.

Distribution: Kashmir (Rober, 1907; Fruhstorfer, 1910-B; Antram, 1924; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); NE Kashmir (Range map) (Tshikolovets, 2005).

74. ***Pontia glauconome*** (Klug, 1829) ssp. ***iranica*** (Bienert, 1870):

Common name: **Desert Bath White**.

Distribution: Kashmir (Rober, 1907; Gasse, 2018).

75. ***Belenois aurota*** (Fabricius, 1793)

Common name: **Pioneer White**.

Distribution: Kashmir (Bingham, 1907; Gasse, 2018); Samba, Chatha, Raika (Sheikh, 2018); Bhaderwah, Doda district (Saji *et al.,* 2020-E); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 13-vii-2019, 3 º23'36.3"N 74º20'30.2"E, coll. T. Sheikh, (MDZ).

76. ***Cepora nerissa*** (Fabricius, 1775) ssp. ***phryne*** (Fabricius, 1775):

Common name: **Common Gull**.

Distribution: Kashmir (Moore, 1874; Gasse, 2018); Akhnoor, Manda, Chatha (Sheikh, 2018); Environmental park, Jammu (Saji & Ogale, 2020); Sunjwan, Jammu; BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 14-vii-2019, 33º23'36.4"N 74º20'30.5"E, coll. T. Sheikh, (MDZ).

77. ***Delias sanaca*** (Moore, 1857)

Common name: **Pale Jezebel**.

Distribution: Kashmir (Kehimkar, 2016; Gasse, 2018); Banihal pass (Roberts, 2001).

78. ***Delias belladonna*** (Fabricius, 1793) ssp. ***horsfieldi*** (Gray, 1831)

Common name: **Hill Jezebel**.

Distribution: Kashmir (Moore, 1874; Varshney & Smetacek, 2015; Smetacek, 2018; Gasse, 2018); Amarnath (Mitis, 1893); Budhal, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, Budhal, 1700 m msl, 4-viii-2019, 33°22'47.0"N 74°38'44.5"E, coll. T. Sheikh, (MDZ).

79. ***Delias eucharis*** (Drury, 1773)

Common name: **Common Jezebel**.

Distribution: Kashmir (Moore, 1874; Fruhstorfer, 1910-A; Gasse, 2018); University of Jammu, Bari-Brhamnana, Raya Suchani, Utterbehni, Samba, Dyala Chak, Surinsar and Mansar (Sharma & Sharma, 2017-A); Jasrota, Manda, Raika (Sheikh, 2018); Jasrota WLS, Kathua district (Saji *et al.,* 2020-J); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 05-iv-2019, 33°23'39.6°N 74°20'28.2"E, coll. T. Sheikh, (MDZ).

80. ***Euchloe daphalis*** (Moore, 1865)

Common name: **Little White**.

Distribution: Kashmir (Moore, 1874; Antram, 1924; Kehimkar, 2016; Gasse, 2018); Goorais valley (South, 1902; Bingham, 1907).

81. ***Ixias marianne*** (Cramer, 1779)

Common name: **White Orangetip**.

Distribution: Jammu (Gasse, 2018); Samba, Manda, Chatha (Sheikh, 2018); Environmental park, Jammu (Haneesh & Bhakre, 2020); Sunjwan, Jammu; BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 06-iv-2019, 33°23'39.4"N 74°20'25.5"E, coll. T. Sheikh, (MDZ).

82. ***Ixias pyrene*** (Linnaeus, 1764) **ssp.** ***evippe*** (Nishimura, 2000)

Common name: **Yellow Orangetip**.

Distribution: Jammu (Gasse, 2018); Environmental park, Jammu (Soman, 2020-A); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 17-iv-2019, 33°23'39.2"N 74°20'25.4"E, coll. T. Sheikh, (MDZ).

83. ***Colotis etrida*** (Boisduval, 1836)

Common name: **Little Orange-tip**.

Distribution: Kashmir (Butler, 1876; Bingham, 1907; Talbot, 1939; D'Abrera, 1990; Gasse, 2018).

84. ***Pareronia hippia*** (Fabricius, 1787)

Common name: **Common Wanderer**.

Distribution: Kashmir (Kollar, 1848); Samba, Manda, Raika, Kathua (Sheikh, 2018).

Subfamily: COLIADINAE

85. ***Catopsilia pyranthe*** (Linnaeus, 1758)

Common name: **Mottled Emigrant**.

Distribution: Kashmir (Gasse, 2018); Manda, Chatha, Raika (Sheikh, 2018); Sunjwan, Jammu; BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 13-ix-2019, 33°23'32.8"N 74°19'55.4"E, coll. T. Sheikh, (MDZ).

86. ***Catopsilia pomona*** (Fabricius, 1775)

Common name: **Common Emigrant**.

Distribution: Kashmir (Gasse, 2018); Samba, Manda, Raika, Kathua (Sheikh, 2018); Bhaderwah, Doda district (Saji, 2020-A); Sunjwan, Jammu; BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 1-vi-2019, 33°23'32.9"N 74°19'55.4"E, coll. T. Sheikh, (MDZ).

87. ***Gonepteryx nepalensis*** (Doubleday, 1847)

Common name: **Himalayan Brimstone**.

Distribution: Kashmir (Holland, 1896; Fruhstorfer, 1910-C; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Goolmurg (Lang, 1868); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Mathola, Bhaderwah, Doda district (Anonymous, 2020-K2); Budhal, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1700 m msl, 04-viii-2019, 33°21'53.2"N 74°42'45.8"E, coll. T. Sheikh, (MDZ).

88. ***Gonepteryx mahaguru*** (Gistel, 1857)

Common name: **Lesser Brimstone**.

Distribution: Kashmir (Evans, 1927; Wynter-Blyth, 1957; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018).

89. ***Eurema laeta*** (Boisduval, 1836)

Common name: **Spotless Grass Yellow**.

Distribution: Kashmir (Fruhstorfer, 1910-C; Gasse, 2018); Samba, Manda, Raika (Sheikh, 2018); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 13-iv-2019, 33°23'36.2"N 74°19'58.4"E, coll. T. Sheikh, (MDZ).

90. ***Eurema brigitta*** (Stoll, 1780) ssp. ***rubella*** (Wallace, 1867)

Common name: **Small Grass Yellow**.

Distribution: Kashmir (Moore, 1874; Moore, 1906; Gasse, 2018); Rajouri (South, 1902).

91. ***Eurema hecabe*** (Linnaeus, 1758)

Common name: **Common Grass Yellow**.

Distribution: Kashmir (Moore, 1874; Gasse, 2018); Rajouri (Moore, 1906); Kupwara district (Qureshi *et al.,* 2013-A); Samba, Manda, Raika (Sheikh, 2018); Bhaderwah, Doda district (Saji *et al.,* 2020-L); Sunjwan, Jammu district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Jammu, Sunjwan, 336 m msl, 02-vi-2020, 33°42'15.4"N 74°55'26.5"E, coll. T. Sheikh, (MDZ).

92. ***Colias erate*** (Esper, 1805)

Common name: **Pale Clouded Yellow**.

Distribution: Kashmir (Moore, 1874; Fruhstorfer, 1910-C; Peile, 1937; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Goorais valley (South, 1902); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Bhaderwah, Doda district (Anonymous, 2020-J); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 03-vii-2019, 33°23'36.6"N 74°20' 29.8"E, coll. T. Sheikh, (MDZ).

93. ***Colias fieldii*** (Menetries, 1855)

Common name: **Dark Clouded Yellow**.

Distribution: Kashmir (Moore, 1874; Elwes, 1880; Holland, 1896; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Sonamarg-Srinagar road (Tshikolovets, 2005); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Bhaderwah, Doda district; Pahalgam, Anantnag (Kashmir south) district; Gulmarg, Baramula district (Churi *et al.,* 2020-A); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 03-iv-2019, 33°23'36.5"N 74°20'29.7"E, coll. T. Sheikh, (MDZ).

94. ***Colias eogene*** (C. & R. Felder, 1865)

Common name: **Fiery Clouded Yellow**.

Distribution: Kashmir (Bingham, 1907; Fruhstorfer, 1910-C; Varshney & Smetacek, 2015); (Ladakh and adjacent) Kashmir (Gasse, 2018); Gumri, Zoji-La pass vicinity) (Tshikolovets, 2005).

Superfamily: PAPILIONOIDEA

Family: LYCAENIDAE

Subfamily: CURETINAE

95. ***Curetis bulis*** (Westwood, 1852)

Common name: **Bright Sunbeam**.

Distribution: Chowkichoura and Kalidhar, Jammu district (Sharma & Sharma, 2018-A).

Subfamily: LYCAENINAE

96. ***Prosotas nora*** (Felder, 1860) ssp. ***ardates*** (Moore, 1875)

Common name: **Common Lineblue**.

Distribution: Kashmir (Gasse, 2018); Poonch (Moore, 1875); Samba, Manda, Mubarakmandi (Sheikh, 2018); Environmental park, Jammu (Saji & Soman, 2020-B); Sunjwan, Jammu district; BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 06-vii-2019, 33°23'36.3"N 74°20'29.8"E, coll. T.

Sheikh, (MDZ).

97. ***Prosotas dubiosa*** (Semper, 1879**)** ssp. ***indica*** (Evans, 1926) (Figure 5)

Common name: **Tailless Lineblue**.

Distribution: Raika Environment park, Jammu; BGSBU, Rajouri district (Taslima Sheikh, New record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 09-vi-2019, 33°23'36.8"N 74°20'29.8"E, coll. T. Sheikh, (MDZ).

98. ***Jamides celeno*** (Cramer, 1775)

Common name: **Common Cerulean**.

Distribution: Samba, Bani, (Sheikh, 2018); Environmental park, Jammu (Saji *et al.,* 2020-N).

99. ***Jamides bochus*** (Stoll, 1782) (Figure 6)

Common name: **Dark Cerulean**.

Distribution: Sunjwan, Jammu district (Taslima Sheikh, New record).

Material examined: India: J&K, Jammu, Sunjwan, 336 m msl, 10-xi-2020, 33°42'15.6"N 74°55'26.8"E, coll. T. Sheikh, (MDZ).

100. ***Catochrysops strabo*** (Fabricius, 1793)

Common name: **Forgetmenot**.

Distribution: Kashmir (Seitz, 1923); Samba, Manda (Sheikh, 2018); Environmental park, Jammu; Bhaderwah, Doda district (Bhakare, 2020-B); Sunjwan, Jammu; BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 04-x-2019, 3°23'36.8"N 74°20'29.8"E, coll. T. Sheikh, (MDZ).

101. ***Lampides boeticus*** (Linnaeus, 1767)

Common name: **Pea Blue**.

Distribution: Kashmir (Moore, 1874); 3 km W. Zoji La pass (Tshikolovets, 2005); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Bhaderwah, Doda district; Srinagar (Saji & Chhaya, 2020); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 05-vii-2019, 33°23'37.6"N 74°20'30.8"E, coll. T. Sheikh, (MDZ).

102. ***Leptotes plinius*** (Fabricius, 1793)

Common name: **Zebra Blue**.

Distribution: Kashmir (Seitz, 1909); Samba, Bani (Sheikh, 2018); Environmental park, Jammu; Bhaderwah, Doda district (Saji & Churi, 2020-B); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 04-viii-2019, 33°23'37.5"N 74°20'30.1"E, coll. T. Sheikh, (MDZ).

103. ***Zizeeria karsandra*** (Moore, 1865)

Common name: **Dark Grass Blue**.



Figures 1-6. **1.** *Hasora chromus* Cramer, 1780. **2.** *Badamia exclamationis* Fabricius, 1775. **3.** *Suastus* gremius Frabricius, 1798. **4.** *Pachliopta aristolochiae* Frabricius, 1775. **5.** *Prosotas dubiosa* Semper, 1879. **6.** *Jamides bochus* Stoll, 1782.

Distribution: Kashmir (Gasse, 2018); Samba, Manda, Raika, (Sheikh, 2018); Pahalgam, Anantnag (Kashmir south) district (Haneesh & Saji, 2020); Sunjwan, Jammu; BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 29-iii-2019, 33°23'37.6"N 74°20'30.7"E, coll. T. Sheikh, (MDZ).

104. ***Pseudozizeeria maha*** (Kollar, 1844)

Common name: **Pale Grass Blue**.

Distribution: Kashmir (Moore, 1874; de Niceville, 1890; Seitz, 1909; Varshney & Smetacek, 2015; Gasse, 2018); Samba, Manda, Raika, Doda (Sheikh, 2018); Sunjwan, Jammu; BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 15-viii-2019, 33°23'37.6"N 74°20'30.2"E, coll. T. Sheikh, (MDZ).

105. ***Zizina otis*** (Fabricius, 1787) ssp. ***indica*** (Murray, 1874) (Figure 7)

Common name: **Lesser Grass Blue**.

Distribution: Raika environmenal park, Jammu; Sunjwan, Jammu; BGSBU, Rajouri district (Taslima Sheikh, New records).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 03-iv-2019, 33°23'37.5"N 74°20'30.5"E, coll. T. Sheikh, (MDZ).

106. ***Zizula hylax*** (Fabricius, 1775)

Common name: **Tiny Grass Blue**.

Distribution: Kashmir (Seitz, 1909; Smith, 1994); Manda, Raika, Jasrota, Chatha (Sheikh, 2018); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 11-vii-2019, 33°23'37.7"N 74°20'29.8"E, coll. T. Sheikh, (MDZ).

107. ***Tarucus balkanicus*** (Freyer, 1844) ssp. ***nigra*** (Bethune-Baker, 1918)

Common name: **Black-spotted Pierrot**.

Distribution: Kashmir (Evans, 1955; Gasse, 2018; Basu *et al.,* 2019); Raika, Jammu district (Sheikh & Parey, 2019-A; Churi *et al.,* 2020-C); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 04-iv-2019, 33°23'37.6"N 74°20'37.8"E, coll. T. Sheikh, (MDZ).

108. ***Tarucus nara*** (Kollar, 1844)

Common name: **Striped Pierrot**.

Distribution: Kashmir (Moore, 1874; Gasse, 2018; Basu *et al.,* 2019); Raika Environmental park, Jammu (Sheikh & Parey, 2019-A); Sunjwan, Jammu; BGSBU Rajouri (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 05-viii-2019, 33°23'37.6"N 74°20'38.8"E, coll. T. Sheikh, (MDZ).

109. ***Tarucus indica*** (Evans, 1932)

Common name: **Indian Pierrot**.

Distribution: Kashmir (Seitz, 1909; D'Abrera, 1993); Nishat gardens (Srinagar) (Gasse, 2018).

110. ***Tarucus callinara*** (Butler, 1886)

Common name: **Spotted Pierrot**.

Distribution: Kashmir (Evans, 1955; Gasse, 2018; Basu *et al.,* 2019).

111. ***Tarucus venosus*** (Moore, 1882)

Common name: **Himalayan Pierrot**.

Distribution: Kashmir (Evans, 1955; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018; Basu *et al.,* 2019); Rajouri (South, 1902); Shankaracharya temple road, Srinagar district; BGSBU (Churi, 2020-B).

112. ***Tarucus hazara*** (Evans, 1932)

Common name: **Hazara Pierrot**.

Distribution: Kashmir (Evans, 1955; Varshney & Smetacek, 2015; Gasse, 2018; Basu *et al.,* 2019); Sunjwan, Jammu district; BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 30-viii-2019, 33°23'37.3"N 74°20'39.7"E, coll. T. Sheikh, (MDZ).

113. Everes argiades (Pallas, 1771) ssp. **diporides** (Chapman, 1909)

Common name: **Tailed Cupid/ Champan's Cupid**.

Distribution: Kashmir (Bollow, 1930; Bryk, 1946; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018).

114. *Everes huegelii* (Gistel, 1857)

Common name: **Dusky-blue Cupid**.

Distribution: Kashmir (Moore, 1874; Seitz, 1923; Evans, 1925; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Shankaracharya temple road, Srinagar district; Pahalgam, Anantnag (Kashmir south) district; Bhaderwah, Doda district (Anonymous, 2020-K); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 27-ix-2019, 33°23'35.6"N 74°20'31.5"E, coll. T. Sheikh, (MDZ).

115. *Everes lacturnus* (Godart, 1824) ssp. ***assamica*** (Tytler, 1915)

Common name: **Indian Cupid**.

Distribution: BGSBU, Rajouri (Sheikh & Parey, 2019-B); Sunjwan, Jammu district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Jammu, Sunjwan, 336 m msl, 23-vi-2020, 33°42'15.5"N 74°55'26.7"E, coll. T. Sheikh, (MDZ).

116. *Talicada nyseus* (Guerin-Meneville, 1843)

Common name: **Red Pierrot**.

Distribution: Kashmir (Srinagar and Jammu) (Gasse, 2018); University of Jammu; Near Railway station, Jammu (Sharma & Sharma, 2017-B); Ramnagar, Raika, Samba, Chatha (Sheikh, 2018); Srinagar district (Saji *et al.*, 2020-W); Sunjwan, Jammu district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Jammu, Sunjwan, 336 m msl, 27-vi-2020, 33°42'15.6"N 74°55'26.8"E, coll. T. Sheikh, (MDZ).

117. *Azanus ubaldus* (Stoll, 1782) (Figure 8)

Common name: **Bright Babul Blue**.

Distribution: Sunjwan, Jammu district (Taslima Sheikh, New record).

Material examined: India: J&K, Jammu, Sunjwan, 336 m msl, 10-xi-2020, 33°42'15.6"N 74°55'26.8"E, coll. T. Sheikh, (MDZ).

118. *Azanus uranus* (Butler, 1886) (Figure 9)

Common name: **Dull Babul Blue**.

Distribution: Sunjwan, Jammu district (Taslima Sheikh, New record).

Material examined: India: J&K, Jammu, Sunjwan, 336 m msl, 10-xi-2020, 33°42'15.6"N 74°55'26.8"E, coll. T. Sheikh, (MDZ).

119. *Neopithecops zalmora* (Butler, 1870)

Common name: **Quaker**.

Distribution: Kashmir (Varshney & Smetacek 2015; Kehimkar, 2016; Gasse, 2018; Smetacek, 2018).

120. *Celastrina argiolus* (Linnaeus, 1758) ssp. ***kollari*** (Westwod, 1852)

Common name: **Hill Hedge Blue**.

Distribution: Kashmir (Kollar, 1844; Moore, 1874; de Niceville, 1890; Bingham, 1907; Varshney & Smetacek 2015; Kehimkar, 2016; Gasse, 2018); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 03-vi-2019, 33°23'47.6"N 74°20'51.5"E, coll. T. Sheikh, (MDZ).

121. *Celastrina gigas* (Hemming, 1928)

Common name: **Silvery Hedge Blue**.

Distribution: Kashmir (Varshney & Smetacek 2015; Kehimkar, 2016; Gasse, 2018).

122. *Celastrina huegelii* (Moore, 1882)

Common name: **Large Hedge Blue**.

Distribution: Kashmir (Seitz, 1909; Evans, 1912; Wynter-Blyth, 1957; Varshney & Smetacek 2015; Kehimkar, 2016; Gasse, 2018); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 23-iv-2019, 33°23'47.2"N 74°20'51.6"E, coll. T. Sheikh, (MDZ).

123. *Acytolepis puspa* (Horsefield, 1828) ssp. ***gisca*** (Fruhstorfer, 1910)

Common name: **Common Hedge Blue**.

Distribution: Kashmir (Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Samba, Manda, Raika (Sheikh, 2018); Environmental park, Jammu (Saji *et al.,* 2020-B); Chingus, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, Chingus, 1200 m msl, 03-vii-2019, 33°44'31.6"N 74°50'17.8"E, coll. T. Sheikh, (MDZ).

124. ***Oreolyce vardhana*** (Moore, 1875)

Common name: **Dusky Hedge Blue**.

Distribution: Kashmir (Seitz, 1909; Evans, 1927; Peile, 1937; Wynter-Blyth, 1957; Smith, 1994; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018).

125. ***Udara dilecta*** (Moore, 1879)

Common name: **Pale Hedge Blue**.

Distribution: Kashmir (Swinhoe, 1909; Fruhstorfer, 1922; Gasse, 2018).

126. ***Pseudophilotes vicrama*** (Moore, 1864) ssp. ***cashmirensis*** (Moore, 1874)

Common name: **Eastern Baton Blue**.

Distribution: Kashmir (de Niceville, 1890; Ruhl, 1893; Bingham, 1907; Evans, 1932; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Soonamurg; Bandipore (Moore, 1874).

127. ***Euchrysops cnejus*** (Fabricius, 1798)

Common name: **Gram Blue**.

Distribution: Kashmir (Seitz, 1909); Raika Environment park, Jammu district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Jammu, Raika, 327 m msl, 06-viii-2019, 33°43'47.4"N 74°54'21.1"E, coll. T. Sheikh, (MDZ).

128. ***Polyommatus icarus*** (Rottemburg, 1775) ssp.? ***chitralensis*** (Swinhoe, 1910)

Common name: **Violet Meadow Blue**.

Distribution: Kashmir (Gasse, 2018).

129. ***Polyommatus pseuderos*** (Moore, 1879)

Common name: **Kashmir Meadow Blue**.

Distribution: Kashmir (Seitz, 1909; Evans, 1925; Bollow, 1930; D'Abrera, 1993; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Pahalgam, Anantnag (Kashmir south) district (Anonymous, 2020-T2).

130. ***Polyommatus ariana*** (Moore, 1865)

Common name: **Lahaul Meadow Blue**.

Distribution: Kashmir (Moore, 1874; de Niceville, 1890; Holland, 1896; Varshney & Smetacek, 2015; Gasse, 2018); Pahalgam, Anantnag (Kashmir south) district; Gurais valley, Bandipora district (BMNH specimen) (Anonymous, 2020-T).

131. ***Polyommatus stoliczkana*** (C. Felder, 1865)

Common name: **Himalayan Meadow Blue**.

Distribution: Kashmir (Seitz, 1909; Mani, 1986; Kehimkar, 2016); NE Kashmir (Gasse, 2018).

132. ***Agriades jaloka*** (Moore, 1875)

Common name: **Greenish Mountain Blue**.

(a) ssp. ***jaloka*** (Moore, 1875)

Distribution: Kashmir (Bingham, 1907; Evans, 1927; Bethune-Baker, 1913; D'Abrera, 1993; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); 3 km W. Zoji La pass (Tshikolovets, 2005) Stakspi pass, Gurais valley, Bandipore district (BMNH specimen) (Annonymous, 2020-A).

(b) ssp. ***marlene*** (Hemming, 1934)

Distribution: Gurais, Kashmir (Gasse, 2018).

133. ***Agriades leela*** (de Niceville, 1884)

Common name: **Ladakh Mountain Blue**.

Distribution: Kashmir (Seitz, 1909); Zogi-La (Swinhoe, 1909); NE Kashmir (Range map) (Tshikolovets, 2005).

134. ***Aricia agestis*** (Denis & Schiffermuller, 1775) ssp. ***nazira*** (Moore, 1865)

Common name: **Orange-bordered Argus**.

Distribution: Kashmir (de Niceville, 1890; Holland, 1896; Bingham, 1907; Swinhoe, 1910; Seitz, 1923; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Goorais valley, Dana, Rajouri (South, 1902); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Shankaracharya temple road, Srinagar; Pahalgam,

Anantnag (Kashmir south) district; Bhaderwah, Doda district (Anonymous, 2020-D).

135. ***Alpherakya devanica*** (Moore, 1875) var. ***gooraisica*** (Tytler, 1926-B)

Common name: **Dusky Meadow Blue**.

Distribution: Goorais (Tytler, 1926-B); Kashmir (Ruhl, 1893; Bingham, 1907; Evans, 1932); N. Kashmir (Gasse, 2018).

136. ***Pamiria omphisa*** (Moore, 1875)

Common name: **Dusky Green Underwing**.

Distribution: Kashmir (Holland, 1896; Seitz, 1909; Evans, 1927; Kehimkar, 2016); (Ladakh and immediately adjacent) Kashmir (Gasse, 2018).

137. ***Pamiria galathea*** (Blanchard, 1844)

Common name: **Large Green Underwing**.

(a) ssp. ***galathea*** (Blanchard, 1844).

Distribution: Kashmir (Type locality) (Blanchard, 1844; Holland, 1896; Swinhoe 1910; Evans, 1925; Mani, 1986; Smith, 1994); Goolmurg (Lang, 1868).

(b) ssp. ***depreei*** (Tytler, 1926-B).

Distribution: Soomamurg (Moore, 1874; Gasse, 2018); Gumri; Zoji La pass vicinity (Tshikolovets, 2005).

138. ***Freyeria putli*** (Kollar, 1844) (Figure 10)

Common name: **Small Grass Jewel**.

Distribution: Chatha, Jammu district (Taslima Sheikh, New record).

Material examined: India: J&K, Jammu, Chatha, 281 m msl, 03-iv-2018, 32°41'01.7"N 74°49'27.8"E, coll. T. Sheikh, (MDZ).

139. ***Luthrodes pandava*** (Horsefield, 1828)

Common name: **Plains Cupid**.

Distribution: Jasrota, Botanical garden, Jammu University, Kachi Chawni (Sheikh, 2018); Environmental park, Jammu (Saji *et al.,* 2020-G); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 03-vii-2019, 33°23'36.2"N 74°20'30.6"E, coll. T. Sheikh, (MDZ).

140. ***Chilades lajus*** (Stoll, 1780)

Common name: **Lime Blue**.

Distribution: Kashmir (Seitz, 1909); Samba, Manda, Raika, Kachi Chawni (Sheikh, 2018); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 13-ix-2019, 33°23'36.6"N 74°20'30.5"E, coll. T. Sheikh, (MDZ).

141. ***Lycaena panava*** (Kollar, 1844)

Common name: **White-bordered Copper**.

Distribution: Kashmir (Moore, 1874; de Niceville, 1890; Evans, 1932; Wynter-Blyth, 1957; D'Abrera, 1993; Varshney & Smetacek, 2015; Gasse, 2018.

142. ***Lycaena phlaeas*** (Linnaeus, 1761) ssp. ***baralacha***

Common name: **Common Copper**.

Distribution: Kashmir (Moore, 1874; Holland, 1896; Evans, 1932; Smith, 1994; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Goorais valley (Ford, 1924); Gumri (Zoji La pass vicinity) (Tshikolovets, 2005); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Pahalgam, Anantnag (Kashmir south) district; Gulmarg, Baramula district; Mathola, Bhaderwah, Doda district (Soman, 2020-B); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 23-vii-2019, 33°23'36.2"N 74°20' 30.6"E, coll. T. Sheikh, (MDZ).

143. ***Lycaena aditya*** (Moore, 1875)

Common name: **Ladakh Copper**

Distribution: Kashmir (Seitz, 1909); Zoji La (Avinoff, 1913); N. Kashmir (Gasse, 2018)

144. ***Lycaena kasyapa*** (Moore, 1865)

Common name: **Green Copper**.

Distribution: Kashmir (Seitz, 1923; Peile, 1937; D'Abrera, 1993; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Sonamurg (Moore, 1874); Gumri (Zoji La pass vicinity) (Tshikolovets, 2005); Paddar, Kishtwar district; Gulmarg, Baramula district (Anonymous, 2020-Q).

145. ***Heliophorus sena*** (Kollar, 1844)

Common name: **Sorrel Sapphire**.

Distribution: Kashmir (Seitz, 1909; D'Abrera, 1993; Gasse, 2018); Chenani, Udhampur district; Shankaracharya temple road, Srinagar; Pahalgam, Anantnag (Kashmir south) district; Bhaderwah, Doda district; Bani, Kathua district; BGSBU, Rajouri district (Churi & Soman, 2020).

146. ***Heliophorus bakeri*** (Evans, 1927)

Common name: **Western Blue Sapphire**.

Distribution: Kashmir (Swinhoe, 1911; D'Abrera, 1993; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Goorais valley (Riley, 1929); Bhaderwah, Doda district (Anonymous, 2020-L2).

147. ***Heliophorus oda*** (Hewitson, 1865)

Common name: **Eastern Blue Sapphire**.

Distribution: Marwah, Kishtwar (Sharma & Sharma, 2018-A).

148. ***Heliophorus moorei*** (Hewitson, 1865) ssp. ***coruscans*** (Moore, 1882)

Common name: **Azure Sapphire**.

Distribution: Kashmir (Evans, 1932; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Bani, Kathua district; Bhaderwah, Doda district (Anonymous, 2020-M); Budhal, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 04-viii-2019, 33°22'44.6"N 74°38'50.7"E, coll. T. Sheikh, (MDZ).

149. ***Heliophorus tamu*** (Kollar, 1844)

Common name: **Powdery Green Sapphire**.

Distribution: Kashmir (Seitz, 1923).

150. ***Spindasis vulcanus*** (Fabricius, 1775)

Common name: **Common Silverline**.

Distribution: Kashmir (Kollar, 1848); Raika Environmental Park, Sunjwan, Jammu district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Jammu, Raika, 327 m msl, 02-x-2019, 33°43'43.9"N 74°54'42.8"E, coll. T. Sheikh, (MDZ).

151. ***Spindasis ictis*** (Hewitson, 1865)

Common name: **Common Shot Silverline**.

Distribution: Kashmir (Moore, 1874; Gasse, 2018); Raika Environmental Park, Jammu district (Sheikh & Parey, 2019-A) BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Jammu, Raika, 327 m msl, 03-x-2019, 33°43'43.9"N 74°54'42.8"E, coll. T. Sheikh, (MDZ).

152. ***Spindasis elima*** (Moore, 1877) ssp. ***uniformis*** (Moore, 1882)

Common name: **Scarce Shot Silverline**.

Distribution: Kashmir (Seitz, 1909; Evans, 1927; Varshney & Smetacek, 2015; Gasse, 2018).

153. ***Chaetoprocta odata*** (Hewitson, 1865)

Common name: **Walnut Blue**.

Distribution: Kashmir (Moore, 1874; Kehimkar, 2016; Gasse, 2018); Sind valley; Kashmir, Mohanmerg (Forster, 1980); Paddar, Kishtwar district; Bhaderwah, Doda district; Pahalgam, Anantnag (Kashmir south) district (Anonymous, 2020-I2).

154. ***Euaspa milionia*** (Hewitson, 1869)

Common name: **Water Hairstreak**.

Distribution: Kashmir (Seitz, 1926; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018).

155. ***Euaspa ziha*** (Hewitson, 1865)

Common name: **White-spotted Hairstreak**.

Distribution: Kashmir (Seitz, 1926; Kehimkar, 2016).

156. ***Esakiozephyrus icana*** (Moore, 1875)

Common name: **Dull-Green Hairstreak**.

Distribution: Sunbain, Doda district (Anonymous, 2020-J3).

157. ***Chrysozephyrus syla*** (Kollar, 1844)

Common name: **Silver Hairstreak**.

Distribution: Kashmir (Seitz, 1909); Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Sarthal village, Bani, Kathua district; Budhal, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, Budhal, 1700

m msl, 20-viii-2019, 33°22'47.0"N 74°38'44.7"E, coll. T. Sheikh, (MDZ).

158. ***Thermozephyrus ataxus*** (Westwood, 1851)

Common name: **Wonderful Hairstreak**.

Distribution: Kashmir (Seitz, 1909; Varshney & Smetacek, 2015; Gasse, 2018).

159. ***Arhopala atrax*** (Hewitson, 1862)

Common name: **Indian Oakblue**.

Distribution: Kashmir (Varshney & Smetacek, 2015; Smetacek, 2018; Gasse, 2018).

160. ***Arhopala amantes*** (Hewitson, 1862) ssp. ***apella*** (Swinhoe, 1886)

Common name: **Large Oakblue**.

Distribution: Samba, Ramnagar, Doda (Sheikh, 2018); Mahamaya forest, Jammu (Sheikh & Parey, 2019-B).

161. ***Arhopala rama*** (Kollar, 1844)

Common name: **Dark Himalayan Oakblue**.

Distribution: Kashmir (Moore, 1874; Seitz, 1909; Evans, 1932; Peile, 1937; Wynter-Blyth, 1957; Smith, 1994; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018).

162. ***Arhopala dodonaea*** (Moore, 1858)

Common name: **Pale Himalayan Oakblue**.

Distribution: Kashmir (Seitz, 1909; Peile, 1937; Smith, 1994; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Khelani, Doda district (Kumar, 2020).

163. ***Arhopala ganesa*** (Moore, 1858)

Common name: **Tailless Bushblue**.

Distribution: Kashmir (de Niceville, 1890; Seitz, 1909; Swinhoe, 1911; D'Abrera, 1993; Varshney & Smetacek, 2015; Kehimkar, 2016; Smetacek, 2018; Gasse, 2018); Bhaderwah, Doda district (Anonymous, 2020-C2).

164. ***Surendra quercetorum*** (Moore, 1858)

Common name: **Common Acacia Blue**.

Distribution: Kalidhar, Rajouri; Jammu (Sharma & Sharma, 2018-A); Environmental park, Jammu district (Saji & Debnath, 2020).

165. ***Iraota timoleon*** (Stoll, 1790)

Common name: **Silverstreak Blue**.

Distribution: Kashmir (Gasse, 2018); Government Gandhi memorial science college, Jammu (Sharma & Sharma, 2018-A); Bal Jarallan, Rajouri district (Saji & Soman, 2020-A).

166. ***Horaga onyx*** (Moore, 1858)

Common name: **Common Onyx**.

Distribution: Samba, Mubarakmandi, Doda (Sheikh, 2018); Bhambla, Rajouri district; Government Gandhi memorial science college, Jammu; Environmental park, Jammu (Sharma & Sharma, 2018-A) University of Jammu; Kalidhar forest, Jammu district (Chandrasekharan, 2020-C).

167. ***Horaga viola*** (Moore, 1882)

Common name: **Brown Onyx**.

Distribution: Government Gandhi memorial science college, Jammu (Sharma & Sharma, 2018-A) Raika Environment park, Jammu district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Jammu, Raika, 327m msl, 2-x-2019, 33°43'47.4"N 74°54'21.1"E, coll. T. Sheikh, (MDZ).

168. ***Tajuria jehana*** (Moore, 1883)

Common name: **Plains Blue Royal**.

Distribution: Samba, Manda, Raika (Sheikh, 2018); Environmental park, Jammu district (Sengupta *et al.*, 2020).

169. ***Deudorix epijarbas*** (Moore, 1857) ssp. ***ancus*** (Fruhstorfer, 1912)

Common name: **Cornelian**.

Distribution: Kashmir (Moore, 1874; De Niceville, 1890; Varshney & Smetacek, 2015; Gasse, 2018); Rajouri, Kashmir (South, 1902); Samba, Manda, Raika (Sheikh, 2018); Kalidhar, Jammu district (Balakrishnan *et al.*, 2020).

170. ***Virachola isocrates*** (Fabricius, 1793)

Common name: **Common Guava Blue**.

Distribution: Kashmir (Gasse, 2018); Samba, Manda, Kathua (Sheikh, 2018); Environmental park, Jammu

(Bhakare, 2020-C); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 13-x-2019, 33°23'39.1"N 74°20'25.3"E, coll. T. Sheikh, (MDZ).

171. ***Rapala varuna*** (Horsfield, 1829) ssp. ***grisea*** (Moore, 1879) (Figure 11)

Common name: **Indigo Flash**.

Distribution: BGSBU, Rajouri district (Taslima Sheikh, New record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 05-x-2019, 33°23'48.7"N 74°20'54.0"E, coll. T. Sheikh, (MDZ).

172. ***Rapala manea*** (Hewitson, 1863) ***ssp. schistacea*** (Moore, 1879)

Common name: **Slate Flash**.

Distribution: Samba, Manda, Raika (Sheikh, 2018); Environmental park, Jammu district (Saji *et al.,* 2020-U).

173. ***Rapala iarbus*** (Fabricius, 1787) **ssp.** ***sorya*** (Kollar, 1844)

Common name: **Indian Red Flash**.

Distribution: Kashmir (Seitz, 1908-C; Varshney & Smetacek, 2015; Gasse, 2018); Samba, Manda, Doda (Sheikh, 2018); Environmental park, Jammu; Manwal, Udhampur district (Bhakare *et al.,* 2020); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 11-ix-2019, 33°23'45.1"N 74°20'43.3"E, coll. T. Sheikh, (MDZ).

174. ***Rapala nissa*** (Kollar, 1844)

Common name: **Common Flash**.

Distribution: Kashmir (Seitz, 1908-C; Evans, 1932; Peile, 1937; Wynter-Blyth, 1957; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Kujiar, Kashmir (South, 1902); Kupwara district (Qureshi *et al.,* 2013).

175. ***Rapala selira*** (Moore, 1874)

Common name: **Himalayan Red Flash**.

Distribution: Kashmir (Moore, 1874; Seitz, 1908-C; Swinhoe, 1911; Evans, 1927; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Bhaderwah, Doda district (Anonymous, 2020-U).

176. ***Satyrium deria*** (Moore, 1865)

Common name: **Whiteline Hairstreak**.

Distribution: Kashmir (Moore, 1874; de Niceville, 1890; Holland, 1896; Seitz, 1908-C; D'Abrera, 1993; Varshney & Smetacek, 2015; Gasse, 2018); Paddar, Kishtwar district (Sondhi, 2020).

Superfamily PAPILIONOIDEA

Family RIODINIDAE

Subfamily NEMEOBIINAE

177. ***Dodona durga*** (Kollar, 1844)

Common name: **Common Punch**.

Distribution: Kashmir (Moore, 1874; de Niceville, 1886; Bingham, 1905; Seitz, 1908-C; Antram, 1924; Evans, 1932; D'Abrera, 1993; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 19-x-2019, 33°23'36.9"N 74°20'30.9"E, coll. T. Sheikh, (MDZ).

178. ***Dodona dipoea*** (Hewitson, 1866) ssp. ***nostia*** (Fruhstorfer, 1912)

Common name: **Lesser Punch**.

Distribution: Kashmir (Fruhstorfer, 1914; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Budhal, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, Budhal, 1700 m msl, 04-viii-2019, 33°22'46.8"N 74°38'44.7"E, coll. T. Sheikh, (MDZ).

179. ***Dodona eugenes*** (Bates, 1868)

Common name: **Tailed Punch**.

Distribution: Kashmir (Moore, 1901; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Khelani, Doda district (Anonymous, 2020-J2).

180. ***Dodona egeon*** (Westwood, 1851)

Common name: **Orange Punch**.

Distribution: Kashmir (Bingham, 1905; Gasse, 2018).

181. ***Abisara fylla*** (Westwood, 1851)

Common name: **Dark Judy**.

Distribution: Kashmir (Fruhstorfer, 1914).

182. ***Abisara bifasciata*** (Moore, 1877) ssp. ***suffusa*** (Moore, 1882)

Common name: **Double-banded Judy**.

Distribution: Environmental park, Jammu (Kunte *et al.,* 2020-A).

Superfamily PAPILIONOIDEA

Family NYMPHALIDAE

Subfamily LIBYTHEINAE

183. ***Libythea lepita*** (Moore, 1858)

Common name: **Common Beak**.

Distribution: Kashmir (Moore, 1874; Seitz, 1908-C; Evans, 1932; Peile, 1937; Wynter-Blyth, 1957; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Bhaderwah, Doda district; BGSBU, Rajouri district (Anonymous, 2020-O).

184. ***Libythea myrrha*** (Godart, 1819) ssp. ***sanguinalis*** (Fruhstorfer, 1898)

Common name: **Club Beak**.

Distribution: Kashmir (Moore, 1901; Seitz, 1908-C; Fruhstorfer, 1914; Gasse, 2018); Bal Jarallan, Rajouri district (Chandrasekharan & Ogale, 2020).

Subfamily DANAINAE

185. ***Parantica aglea*** (Stoll, 1782) **ssp.** ***melanoides*** (Moore, 1883)

Common name: **Glassy Tiger**.

Distribution: Kashmir (Moore, 1890; Bingham, 1905; Evans, 1932; Talbot, 1947; Varshney & Smetacek, 2015; Gasse, 2018); Doda district; Jasrota WLS, Kathua district (Saji *et al.,* 2020-T); Budhal, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, Budhal, 1700 m msl, 20-viii-2019, 3°22'44.8"N 74°38'47.9"E, coll. T. Sheikh, (MDZ).

186. ***Parantica sita*** (Kollar, 1844)

Common name: **Chestnut Tiger**.

Distribution: Kashmir (Bingham, 1905; Evans, 1932; Talbot, 1947; Varshney & Smetacek, 2015; Kehimkar, 2016; Smetacek, 2018; Gasse, 2018); Bhaderwah, Doda district (Anonymous, 2020-S); Sarthal village, Bani, Kathua district; Budhal, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 21-viii-2019, 33°23'42.8"N 74°20'45.3"E, coll. T. Sheikh, (MDZ).

187. ***Parantica melaneus*** (Cramer, 1775) ssp. ***plataniston*** (Fruhstorfer, 1910) (Figure 12)

Common name: **Chocolate Tiger**.

Distribution: Budhal, Rajouri district (Taslima Sheikh, New record).

Material examined: India: J&K, Rajouri, Budhal, 1700 m msl, 20-viii-2019, 33°22'47.1"N 74°38'44.9"E, coll. T. Sheikh, (MDZ).

188. ***Tirumala limniace*** (Cramer, 1775) ssp. ***exótica*** (Gmelin, 1790)

Common name: **Blue Tiger**.

Distribution: Kashmir (Moore, 1874; Holland, 1896; Seitz, 1907-A; Gasse, 2018); Rajouri (South, 1902); Samba, Manda, Raika, (Sheikh, 2018); Ramnagar wildlife sanctuary, Jammu; Jasrota WLS, Kathua district (Saji *et al.,* 2020-X); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 20-vii-2019, 33°23'34.7"N 74°20'28.7"E, coll. T. Sheikh, (MDZ).

189. ***Tirumala septentrionis*** (Butler, 1874)

Common name: **Dark Blue Tiger**.

Distribution: Kashmir (Frushstorfer, 1910).

190. ***Danaus genutia*** (Cramer, 1779)

Common name: **Common Tiger**.

Distribution: Kashmir (Moore, 1874; D'Abrera, 1990; Gasse, 2018); Samba, Manda, Akhnoor (Sheikh, 2018); Doda district; Environmental park, Jammu (Saji *et al.,*

2020-I); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 10-vii-2019, 33°23'34.6"N 74°20'28.7"E, coll. T. Sheikh, (MDZ).

191. *Danaus chrysippus* (Linnaeus, 1758)

Common name: **Plain Tiger**.

Distribution: Kashmir (Moore, 1874; Holland, 1896; Seitz, 1907-A; D'Abrera, 1990; Gasse, 2018); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Samba, Manda, Raika, Akhnoor (Sheikh, 2018); Bhaderwah, Doda district (Lovalekar *et al.,* 2020-A); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 11-vii-2019, 33°23'34.3"N 74°20' 28.7"E, coll. T. Sheikh, (MDZ).

192. *Euploea mulciber* (Cramer, 1777)

Common name: **Striped Blue Crow**.

Distribution: Kashmir (Varshney & Smetacek, 2015; Gasse, 2018; Smetacek, 2018); Doda district (Soman *et al.,* 2020); Raika Environmental park, Jammu; Sarthal village, Bani, Kathua; BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 22-vii-2019, 33°23'43.8"N 74°20'43.2"E, coll. T. Sheikh, (MDZ).

193. *Euploea core* (Cramer, 1780)

Common name: **Common Crow**.

Distribution: Kashmir (Moore, 1874; Gasse, 2018); Manda, Chatha, Raika (Sheikh, 2018); Kalidhar forest, Jammu District (Saji *et al.,* 2020-K); BGSBU, Rajouri (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 24-vii-2019, 33°23'43.5"N 74°20'43.3"E, coll. T. Sheikh, (MDZ).

Subfamily SATYRINAE

194. *Melanitis leda* (Linnaeus, 1758)

Common name: **Common Evening Brown**.

Distribution: Kashmir (Moore, 1874; Seitz, 1907-B; Gasse, 2018); Samba, Manda, Raika (Sheikh, 2018); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

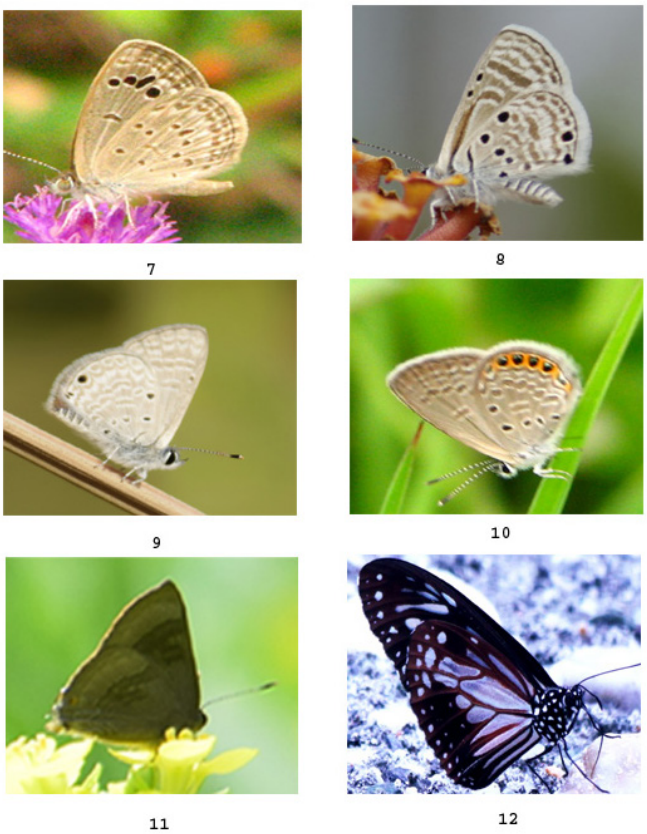
Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 20-vii-2019, 33°23'43.5"N 74°20'42.7"E, coll. T. Sheikh, (MDZ).

195. *Melanitis phedima* (Cramer, 1780) ssp. ***galkissa*** (Fruhstorfer, 1911)

Common name: **Dark Evening Brown**.

Distribution: Kashmir (Moore, 1874; Evans, 1932; Talbot, 1947; Varshney & Smetacek, 2015; Smetacek, 2018; Gasse, 2018); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 20-vi-2019, 33°23'43.6"N 74°20'42.7"E, coll. T.



Figures 7-12. **7.** *Zizina otis* Fabricius, 1787. **8.** *Azanus ubaldus* stoll, 1782. **9.** *Azanus uranus* Butler, 1886. **10.** *Freyeria putli* Kollar, 1844. **11.** *Rapala varuna* Horsfield, 1829. **12.** *Parantica melaneus* Cramer, 1775.

Sheikh, (MDZ).

196. ***Elymnias hypermnestra*** (Linnaeus, 1763) ssp. ***undularis*** (Drury, 1773)

Common name: **Common Palmfly**.

Distribution: Jammu district (Mohd Ayoub Nayiak, first recordphotographed in 2017); Raika, Jammu district (Das *et al.,* 2020).

197. ***Lethe sidonis*** (Hewitson, 1863) (Figure 13)

Common name: **Common Woodbrown**.

Distribution: Budhal, Rajouri district (Taslima Sheikh, New record).

Material examined: India: J&K, Rajouri, Budhal, 1700 m msl, 04-viii-2019, 33°21'53.2"N 74°42' 45.8"E, coll. T. Sheikh, (MDZ).

198. ***Lethe confusa*** (Aurivillius, 1898)

Common name: **Banded Treebrown**.

Distribution: Kashmir (Kehimkar, 2016; Gasse, 2018); BGSBU, Rajouri (Sheikh & Parey, 2019-A).

199. ***Lethe europa*** (Fabricius, 1775) **ssp.** ***niladana*** (Fruhstorfer, 1911)

Common name: **Bamboo Treebrown**.

Distribution: Near Jammu City, Mansar Lake and Surinsar Lake (Sharma & Sharma, 2017-B); Jammu (Gasse, 2018); Samba, Manda, Raika, Doda (Sheikh, 2018); Jasrota WLS, Kathua district (Saji & Haneesh, 2020); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 02-iv-2019, 33°23'39.0"N 74°20' 27.4"E, coll. T. Sheikh, (MDZ).

200. ***Lethe rohria*** (Fabricius, 1787)

Common name: **Common Treebrown**.

Distribution: Kashmir (Moore, 1891; Fruhstorfer, 1911; Evans, 1932; Peile, 1937; Talbot, 1947; Smith, 1994; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Samba, Manda, Raika, Doda (Sheikh, 2018); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 02-iv-2019, 33°23'39.0"N 74°20'27.4"E, coll. T. Sheikh, (MDZ).

201. ***Lethe isana*** (Kollar, 1844)

Common name: **Common Forester**.

Distribution: Kashmir (Kollar, 1844; Varshney & Smetacek, 2015; Gasse, 2018).

202. ***Lethe verma*** (Kollar, 1844)

Common name: **Straight-banded Treebrown**.

Distribution: Kashmir (Seitz, 1907-B; Fruhstorfer, 1911; Evans, 1927; Peile, 1937; Talbot, 1947; Wynter-Blyth, 1957; Varshney & Smetacek, 2015; Kehimkar, 2016; Smetacek, 2018; Gasse, 2018); Bhaderwah, Doda district (Chandrasekharan, 2020-A).

203. ***Lasiommata menava*** (Moore, 1865)

Common name: **Dark Wall**.

Distribution: Kashmir (Evans, 1932; Seitz, 1908-A; Fruhstorfer, 1911); (Ladakh and) adjacent parts of Kashmir (Gasse, 2018).

204. ***Lasiommata schakra*** (Kollar, 1844)

Common name: **Common Wall**.

Distribution: Kashmir (Moore, 1874; Seitz, 1908-A; Fruhstorfer, 1911; D'Abrera, 1990; Bozano, 1999; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Gulmarg (Hegner, 1978); Samba, Manda, Akhnoor, Bani, Bhaderwah (Sheikh, 2018); Bhaderwah, Doda district; Gulmarg, Baramula district (Anonymous, 2020-N2); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 03-viii-2019, 33°23'39.4"N 74°20'27.8"E, coll. T. Sheikh, (MDZ).

205. ***Lasiommata maerula*** (C. & R. Felder, 1867)

Common name: **Scarce Wall**.

Distribution: Kashmir (Bingham, 1905; Seitz, 1908-A; Antram, 1924; Talbot, 1947; Bozano, 1999; Varshney & Smetacek, 2015; Gasse, 2018).

206. ***Kirinia eversmanni*** (Eversmann, 1847) **ssp.** ***cashmirensis*** (Moore, 1874)

Common name: **Yellow Wall**.

Distribution: Kashmir (Bingham, 1905; Seitz, 1908-A; Evans, 1932; Talbot, 1947; D'Abrera, 1990; Bozano, 1999; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse,

2018); Goolmurg, Kashmir (Moore, 1874); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Rajwar, Langate forest range, Handwara (Singh, 2016); Gurais, Bandipora district; Pahalgam, Anantnag (Kashmir south) district; Gulmarg, Baramula district (Venkatesh, 2020).

207. ***Rhaphicera moorei*** (Butler, 1867) (Figure 14)

Common name: **Small Tawny Wall**.

Distribution: Kotranka village, Budhal, Rajouri district (Taslima Sheikh, New record).

Material examined: India: J&K, Rajouri, Budhal, 1700 m msl, 04-viii-2019, 33°22'44.10"N 74°38'48.5"E, coll. T. Sheikh, (MDZ).

208. ***Orinoma damaris*** (Gray, 1846)

Common name: **Tiger Brown**.

Distribution: Kashmir (Smetacek, 2018).

209. ***Mycalesis perseus*** (Fabricius, 1775) ssp. ***blasius*** (Fabricius, 1798) (Figure 15)

Common name: **Common Bushbrown**.

Distribution: Raika Environmental park, Jammu; BGSBU, Rajouri district (Taslima Sheikh, New record) (Figure 13).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 02-ix-2019, 33°23'38.1"N 74°20'35.4"E, coll. T. Sheikh, (MDZ).

210. ***Mycalesis mineus*** (Linnaeus, 1753) (Figure 16)

Common name: **Dark-branded Bushbrown**.

Distribution: Sunjwan, Jammu district (Taslima Sheikh, New record).

Material examined: India: J&K, Jammu, Sunjwan, 336 m msl, 19-viii-2020, 33°42'15.6"N 74°55'26.8"E, coll. T. Sheikh, (MDZ).

211. ***Ypthima nareda*** (Kollar, [1844)

Common name: **Large Threering**.

Distribution: Kashmir (Marshall & de Niceville, 1883; Seitz, 1907-B; Antram, 1924; Evans, 1932; Peile, 1937; Talbot, 1947; Wynter-Blyth, 1957; Mani, 1986; Smith, 1994; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Bhaderwah, Doda district (Anonymous, 2020-Y); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 06-viii-2019, 33°23'38.0"N 74°20'35.4"E, coll. T. Sheikh, (MDZ).

212. ***Ypthima asterope*** (Klug, 1832) ssp. ***mahratta*** (Moore, 1884)

Common name: **Common Threering**.

Distribution: Kashmir (Seitz, 1907-B; D'Abrera, 1990); Raika, Ramnagar, Doda, Bani (Sheikh, 2018); Sunjwan, Jammu district (Taslima Sheikh, Recent record).

213. ***Ypthima kasmira*** (Moore, 1884)

Common name: **Kashmir Fourring**.

Distribution: Kashmir (Moore, 1892; Bingham, 1905; Seitz, 1907-B; Antram, 1924; Evans, 1932; Peile, 1937; Talbot, 1947; Smith, 1994; Varshney & Smetacek, 2015; Gasse, 2018); Rajouri, Kashmir (South, 1902); Bhaderwah, Doda district (misidentified as Y. huebneri) (Saji & Das, 2020); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 02-viii-2019, 33°23'36.7"N 74°20' 29.9"E, coll. T. Sheikh, (MDZ).

214. ***Ypthima bolanica*** (Marshall, 1882)

Common name: **Desert Fivering**.

Distribution: Kashmir (Evans, 1932; Peile, 1937; Talbot, 1947; Varshney & Smetacek, 2015; Gasse, 2018).

215. ***Ypthima lisandra*** (Cramer, 1780) ssp. ***avanta*** (Moore, 1875)

Common name: **Jewel Fivering**.

Distribution: Kashmir (Marshall & de Niceville, 1883; Bingham, 1905; Seitz, 1907-B; Fruhstorfer, 1911; Antram, 1924; Evans, 1932; Peile, 1937; Talbot, 1947; Wynter-Blyth, 1957; Mani, 1986; Smith, 1994; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Sunjwan, Jammu, BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 02-iv-2019, 33°23'36.5"N 74°20'29.1"E, coll. T. Sheikh, (MDZ).

216. ***Ypthima indecora*** (Moore, 1882)

Common name: **Western Fivering**.

Distribution: Kashmir (Evans, 1932; Talbot, 1947; Varshney & Smetacek, 2015; Gasse, 2018).

217. *Ypthima baldus* (Fabricius, 1775) (Figure 17)

Common name: **Common Fivering**.

Distribution: BGSBU, Rajouri district (Taslima Sheikh, New record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 23-ix-2020, 33°23'39.1"N 74°20'25.5"E, coll. T. Sheikh, (MDZ).

218. *Ypthima nikaea* (Moore, 1875)

Common name: **Moore's Fivering**.

Distribution: Kashmir (Moore, 1892; Varshney & Smetacek, 2015; Kehimkar, 2016; Smetacek, 2018; Gasse, 2018); Bhaderwah, Khelani (Doda district) (Anonymous, 2020-Z); Bani, Kathua district; BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 03-iv-2019, 33°23'36.5"N 74°20' 30.5"E, coll. T. Sheikh, (MDZ).

219. *Ypthima sakra* (Moore, 1857)

Common name: **Himalayan Fivering**.

Distribution: J&K (Varshney & Smetacek, 2015).

220. *Ypthima hyagriva* (Moore, 1858)

Common name: **Brown Argus**.

Distribution: Kashmir (Evans, 1932; Talbot, 1947; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 24-ix-2020, 33°23'39.1"N 74°20'25.5"E, coll. T. Sheikh, (MDZ).

221. *Callerebia nirmala* (Moore, 1865) ssp. ***daksha*** (Moore, 1874)

Common name: **Common Argus**.

Distribution: Kashmir (Moore, 1874; Talbot, 1947; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Dachigam N.P. (Qureshi *et al.,* 2014); Pahalgam, Anantnag (Kashmir south) district; Bhaderwah, Doda district; Gulmarg, Baramula district (Anonymous, 2020-H); Bani, Kathua district; Budhal, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, Budhal, 1700 m msl, 04-viii-2019, 33°22'44.8"N 74°38'46.8"E, coll. T. Sheikh, (MDZ).

222. *Callerebia scanda* (Kollar, 1844)

Common name: **Pallid Argus**.

Distribution: Kashmir (Bingham, 1905; Fruhstorfer, 1911; Antram, 1924; Evans, 1932; Peile, 1937; Talbot, 1947; Wynter-Blyth, 1957; Varshney & Smetacek, 2015; Kehimkar, 2016; Smetacek, 2018; Gasse, 2018).

223. *Callerebia annada* (Watkins, 1925) ssp. ***caeca*** (Moore, 1858)

Common name: **Ringed Argus**.

Distribution: Kashmir (Bingham, 1905; Seitz, 1907-B; Evans, 1932; Peile, 1937; Talbot, 1947; Smith, 1994; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018).

224. *Paralasa mani* (de Niceville, 1881)

Common name: **Yellow Argus**.

Distribution: Kashmir (Bingham, 1905; Eiffinger, 1907; Evans, 1932; Talbot, 1947; Della Bruna *et al.,* 2000; Varshney & Smetacek, 2015; Gasse, 2018).

225. *Paralasa kalinda* (Moore, 1865)

Common name: **Scarce Mountain Argus**.

(a) *ssp.* ***kalinda*** (Moore, 1865)

Distribution: Kashmir (Evans, 1932; Sakai, 1981; Talbot,1947; D'Abrera, 1992; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Mt. Kolahoi, Kashmir (Sakai, 1978); Somamarg (Della Bruna *et al.,* 2000); 3 km W. Zoji La pass (Tshikolovets, 2005); Zojila pass, Ganderbal district (Vis & Coene, 1987); Mt. Kolahoi; Lidarwat; Sonamarg; Zoji La (Sakai, 2015); Zojila pass, Ganderbal district (Anonymous, 2020-R2).

(b) ssp. ***kamriana*** (Tytler, 1926-A)

Distribution: Kamri pass, Gurais (Tytler, 1926-A; Sakai, 1981; Della Bruna *et al.,* 2000; Talbot, 1947; Varshney & Smetacek, 2015).

226. *Paralasa shallada* (Lang, 1881)

Common name: **Mountain Argus**.

Distribution: Kashmir (Eiffinger, 1907; Evans, 1932; Talbot, 1947; Della Bruna *et al.,* 2000; Varshney & Smetacek, 2015; Gasse, 2018).

227. *Hyponephele kashmirica* (Moore, 1892)

Common name: **Kashmir Meadowbrown**.

Distribution: Kashmir (Holland, 1896; Seitz, 1908-A; Fruhstorfer, 1911; Tytler, 1926-A; Evans, 1932; Peile, 1937; Talbot, 1947; Varshney & Smetacek, 2015; Gasse, 2018); Gulmurg (Baramulla district), Bhaderwah and Jora (Doda district) (Moore, 1892).

228. *Hyponephele pulchella* (C. & R. Felder, 1867) ssp. ***pulchella*** (C. & R. Felder, 1867) or (?) ***carbonelli*** (Lukhtanov, 1995)

Common name: **Tawny Meadowbrown**.

Distribution: Kashmir (Moore, 1875; Bingham, 1905; Fruhstorfer, 1911; Antram, 1924; Evans, 1932; Talbot, 1947; Varshney & Smetacek, 2015; Gasse, 2018); Gulmarg (Singh, 2016).

229. *Hyponephele pulchra* (C. & R. Felder, 1867)

Common name: **Beautiful Meadowbrown**.

(a) ssp. ***neoza*** (Lang, 1868)

Distribution: Kashmir (Lang, 1868; Seitz, 1908-A; Fruhstorfer, 1911; Evans, 1932; Kehimkar, 2016); Pir Panjal, Kashmir (Mani, 1986; Varshney & Smetacek, 2015; Gasse, 2018).

(b) ssp. ***astorica*** (Tytler, 1926-A)

Distribution: 5 km E. Gumri (Zoji La pass vicinity) (Tshikolovets, 2005).

230. *Hyponephele coenonympha* (C. & R. Felder, 1867)

Common name: **Spotted Meadowbrown**.

Distribution: Kashmir (Bingham, 1905; Seitz, 1908-A; Evans, 1932; Talbot, 1947); Goolmurg in Kashmir (Lang, 1868); Zoji La (Hanus *et al.,* 1988); Goorais valley (figure) (D'Abrera, 1992); Gulmarg, Pir Panjal (Varshney & Smetacek, 2015); W. Kashmir (Gasse, 2018).

231. *Aulocera brahminus* (Blanchard, 1853)

Common name: **Narrow-banded Satyr**.

Distribution: Kashmir (Moore, 1874; Bingham, 1905; Fruhstorfer, 1911; Antram, 1924; Evans, 1932; Talbot, 1947; Wynter-Blyth, 1957; Smith, 1994; Vashney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Goolmurg (Lang, 1868); Zoji-La (Vis & Coene, 1987); 3 km W. Zoji La pass; 5 km E. Gumri (Zoji La pass vicinity) (Tshikolovets, 2005); Machoi, Kashmir (Sakai, 2015); Baramula district (Anonymous, 2020-E).

232. *Aulocera padma* (Kollar, 1844)

Common name: **Great Satyr**.

Distribution: Kashmir (Fruhstorfer, 1911; Evans, 1932; Peile, 1937; Talbot, 1947; Smith, 1994; Kehimkar, 2016; Gasse, 2018); Kupwara district (Qureshi *et al.,* 2013).

233. *Aulocera swaha* (Kollar, 1844)

Common name: **Common Satyr**.

(a) ssp. ***swaha*** (Kollar, 1844)

Distribution: Kashmir (Moore, 1874; Seitz, 1908-A; Antram, 1924; Gasse, 2018); Goolmurg (Lang, 1868); Zojila pass, Ganderbal district (Anonymous, 2020-E2).

(b) ssp. ***garuna*** (Fruhstorfer, 1911)

Distribution: Kashmir (Evans, 1927; Talbot 1947; Varshney & Smetacek, 2015); Kashmir, Goorais valley (D'Abrera, 1990); Sonamarg (Tshikolovets, 2005); NE Kashmir (Gasse, 2018); Gurais, Bandipora district; Gulmarg, Baramula district (Anonymous, 2020-F); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 03-viii-2019, 33°23'39.0"N 74°20'27.9"E, coll. T. Sheikh, (MDZ).

234. *Aulocera saraswati* (Kollar, 1844)

Common name: **Striated Satyr**.

Distribution: Kashmir (Moore, 1874; Bingham, 1905; Seitz, 1908-A; Fruhstorfer, 1911; Antram, 1924; D'Abrera, 1990; Kehimkar, 2016; Gasse, 2018).

235. *Hipparchia parisatis* (Kollar, 1849) ssp. ***shiva*** (Le Cerf, 1913)

Common name: **White-edged Rockbrown**.

Distribution: Kashmir (Moore, 1892; Seitz, 1908-A; Fruhstorfer, 1911; Evans, 1927; Peile, 1937; Talbot, 1947; Wynter-Blyth, 1957; D'Abrera, 1992; Smith, 1994; Varshney

& Smetacek, 2015; Kehimkar, 2016; Gasse, 2018).

Subfamily CALINAGINAE

236. *Calinaga buddha* (Moore, 1857)

Common name: **Freak**.

Distribution: Kashmir (Varshney & Smetacek, 2018; Gasse, 2015).

Subfamily NYMPHALINAE

237. *Ariadne merione* (Cramer, 1777) ssp. ***tapestrina*** (Moore, 1884)

Common name: **Common Castor**.

Distribution: Kashmir (Evans, 1932; Peile, 1937; Varshney & Smetacek, 2015; Gasse, 2018); Samba, Manda, Rajouri (Sheikh, 2018); Environmental park, Jammu; Chinchwad, Punch District (Saji *et al.,* 2020-C).

238. *Argynnis hyperbius* (Linnaeus, 1763)

Common name: **Indian Fritillary**.

Distribution: Kashmir (Moore, 1874; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Bani, Kathua district; Thathri, Doda district; BGSBU, Rajouri district (Sarkar *et al.,* 2020).

239. *Argynnis childreni* (Gray, 1831) ssp. ***sakontala*** (Kollar, 1848)

Common name: **Large Silverstripe**.

Distribution: Kashmir (Moore, 1874; de Niceville, 1886; Bingham, 1905; Fruhstorfer, 1912; D'Abrera, 1992; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Doda district (Anonymous 2020-B2); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 06-iv-2019, 33°23'42.1"N 74°20'35.7"E, coll. T. Sheikh, (MDZ).

240. *Argynnis kamala* (Moore, 1857)

Common name: **Common Silverstripe**.

Distribution: Kashmir (Lang, 1868; Moore, 1874; Bingham, 1905; Fruhstorfer 1912-B; Antram, 1924; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Sonamarg (Tshikolovets, 2005); Gulmarg, Baramula district (Anonymous, 2020-C).

241. *Argynnis jainadeva* (Moore, 1864)

Common name: **Himalayan Highbrown Silverspot**.

Distribution: Kashmir (Lang, 1868; Moore, 1874; South, 1902; Seitz, 1908-B; Fruhstorfer, 1912; D'Abrera, 1992; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); 3 km S. Zoji La pass; 5 km E. Gumri (Zoji La pass vicinity); Sonamarg; 10 km road Sonamarg-Srinagar (Tshikolovets, 2005).

242. *Argynnis aglaja* (Linnaeus, 1758) ssp. ***vitatha*** (Moore, 1875)

Common name: **Dark-green Silverspot**.

Distribution: Kashmir (Seitz, 1908-B; Fruhstorfer, 1912; Antram, 1924; Evans, 1927; Varshney & Smetacek, 2015; Gasse, 2018); N. side of Rajdiangan pass and Gurais (Moore, 1875).

243. *Issoria lathonia* (Linnaeus, 1758) ssp. ***issaea*** (Gray, 1846)

Common name: **Queen of Spain Fritillary**.

Distribution: Kashmir (Moore, 1874; de Niceville, 1886; Seitz, 1908-B; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); 5 km E. Gumri (Zoji La pass vicinity) (Tshikolovets, 2005); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Gulmurg, Baramula district; Bhaderwah, Doda district (Anonymous, 2020-M2); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 02-vi-2019, 33°23'43.0"N 74°20'35.4"E, coll.T. Sheikh, (MDZ).

244. *Boloria sipora* (Moore, 1875)

Common name: **Straightwing Silverspot**.

Distribution: Kashmir (Bingham, 1905; Seitz, 1908-B; Fruhstorfer, 1912; Antram, 1924; Varshney & Smetacek, 2015; Gasse, 2018); Kashmir near Gungabul lake at foot of Haramook peak (Moore, 1875); 5 km E. Gumri (Zoji La pass vicinity) (Tshikolovets, 2005).

245. *Clossiana jerdoni* (Lang, 1868)

Common name: **Jerdon's Silverspot**.

Distribution: Kashmir (Holland, 1896; Bingham, 1905; Seitz, 1908-B; Evans, 1932; Wynter-Blyth, 1957; Varshney & Smetacek, 2015; Gasse, 2018); Goolmurg, Kashmir (Lang, 1868); Soonamurg (Moore, 1874; de Niceville, 1886); Zoji La (South, 1902); Paddar, Kishtwar district (Anonymous, 2020-G).

246. *Phalanta phalantha* (Drury, 1773)

Common name: **Common Leopard**.

Distribution: Kashmir (Moore, 1874; Seitz, 1908-B; Gasse, 2018); Kupwara district (Qureshi *et al.,* 2013-A); Samba, Manda, Raika (Sheikh, 2018); Sunjwan, Jammu district, BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 10-x-2019, 33°23'40.0"N 74°20'35.4"E, coll. T. Sheikh, (MDZ).

247. *Vagrans egista* (Cramer, 1780) ssp. ***sinha*** (Kollar, 1844)

Common name: **Vagrant**.

Distribution: Mansar lake, Samba district (Sharma & Sharma, 2018-B); Manwal, Udhampur district (Gokhale, 2020).

248. *Melitaea arcesia* (Bremer, 1861) ssp. ***balbita*** (Moore, 1874)

Common name: **Blackvein Fritillary**.

Distribution: Kashmir (Holland, 1896; Bingham, 1905; Seitz, 1908-B; Fruhstorfer, 1912; Varshney & Smetacek, 2015; Gasse, 2018); Soonamurg, NE Kashmir (Moore, 1874); Goorais, Kashmir (South, 1902; Higgins, 1955).

249. *Symbrenthia lilaea* (Hewitson, 1864) ssp. ***khasiana*** (Moore, 1875)

Common name: **Common Jester**.

Distribution: Kashmir (Moore, 1874; Gasse, 2018); Samba, Manda, Raika, Mubarakmandi, Billawar (Sheikh, 2018); Manwal, Udhampur district; Kalidhar (Sharma & Sharma, 2018-B); Kalidhar Forest and Environmetal park, Jammu district; Khelani, Doda district (Choker *et al.,* 2020); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 10-ix-2019, 33°23'41.1"N 74°20'35.7"E, coll. T. Sheikh, (MDZ).

250. *Symbrenthia niphanda* (Moore, 1872) ssp. ***hysudra*** (Moore, 1874)

Common name: **Bluetail Jester**.

Distribution: Kashmir (Moore, 1874; Evans, 1932; Wynter-Blyth, 1957; Varshney & Smetacek, 2015; Kehimkar, 2016; Smetacek, 2018; Gasse, 2018); Khelani, Doda district (Anonymous, 2020-W).

251. *Symbrenthia brabira* (Moore, 1872)

Common name: **Himalayan Jester**.

Distribution: Kashmir (Moore, 1874; Evans, 1932; Varshney & Smetacek, 2015; Kehimkar, 2016; Smetacek, 2018; Gasse, 2018).

252. *Nymphalis vau-album* (Denis & Schiffermuller, 1775)

Common name: **Comma Tortoiseshell**.

Distribution: Kashmir (Ruhl, 1893; Bingham, 1905; Fruhstorfer, 1912; Evans, 1932; Varshney & Smetacek, 2015); Goolmurg (Lang, 1968); N. Kashmir (Gasse, 2018).

253. *Nymphalis xanthomelas* (Esper, 1781) ssp. ***fervescens*** (Stichel, 1908)

Common name: **Yellow-legged Tortoiseshell**.

Distribution: Kashmir (Lang, 1868; Moore, 1874; Fruhstorfer, 1912; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); BGSBU, Rajouri district (Anonymous, 2020-Q2).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 24-ii-2020, 33°23'42.6"N 74°21'06.2"E, coll. T. Sheikh, (MDZ).

254. *Nymphalis polychloros* (Linnaeus, 1758)

Common name: **Blackleg Tortoiseshell**.

Distribution: Sonamarg (Tshikolovets, 2005); N. Kashmir (Sonamarg, Gogaldor) (Gasse, 2018).

255. *Aglais rizana* (Moore, 1872)

Common name: **Mountain Tortoiseshell**.

Distribution: Kashmir (Stichel, 1908; Fruhstorfer, 1912; Antram, 1924; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Zoji La (Hanus *et al.,* 1988).

256. *Aglais caschmirensis* (Kollar, 1844)

Common name: **Kashmir Tortoiseshell**.

Distribution: Kashmir (Lang, 1868; Moore, 1874; Ruhl, 1893; Bingham, 1905; Fruhstorfer, 1912; D'Abrera, 1992; Varshney & Smetacek, 2015; Kehimkar, 2016; Smetacek, 2018; Gasse, 2018); Zoji La (Vis & Coene, 1987; Hanus *et al.,* 1988); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Pahalgam, Anantnag (Kashmir south) district; Srinagar; Bhaderwah, Doda district; Herman Shopian, Shopian district (Valappil & Kunte, 2020); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 09-vii-2019, 33°23'45.1"N 74°20'43.9"E, coll. T. Sheikh, (MDZ).

257. *Kaniska canace* (Linnaeus, 1763)

Common name: **Blue Admiral**.

Distribution: Kashmir (Moore, 1874; Holland, 1896; Stichel, 1908; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Bhaderwah, Doda district (Kunte *et al.,* 2020-C); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 10-vii-2019, 33°23'45.7"N 74°20'43.9"E, coll. T. Sheikh, (MDZ).

258. *Polygonia egea* (Cramer, 1775) ssp. ***undina*** (Grum-Grshimailo, 1890)

Common name: **Southern Comma**.

Distribution: Kashmir (Stichel, 1908; D'Abrera, 1992); N. Kashmir (Gasse, 2018).

259. *Polygonia c-album* (Linnaeus, 1758) ssp. ***kashmira*** (Evans, 1932)

Common name: **Comma**.

Distribution: Kashmir (Moore, 1874; de Niceville, 1886; Leech, 1892; Moore, 1899; Bingham, 1905; Stichel, 1908; Frushstorfer, 1912; Evans, 1932; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Goolmurg, NE Kashmir (Moore, 1872); Goorais valley; Bandipora district (Anonymous, 2020-S2).

260. *Vanessa cardui* (Linnaeus, 1758)

Common name: **Painted Lady**.

Distribution: Kashmir (Moore, 1874; Holland, 1896; Moore, 1899; Gasse, 2018); Zoji La (Hanus *et al.,* 1988); Kupwara district (Qureshi *et al.,* 2013-A); Dachigam N.P. (Qureshi *et al.,* 2014); Bhaderwah, Doda district; Herman Shopian, Shopian district (Bhakare & Prashanth 2020); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 10-v-2019, 3°23'44.1"N 74°20'43.8"E, coll. T. Sheikh, (MDZ).

261. *Vanessa indica* (Herbst, 1794)

Common name: **Indian Red Admiral**.

Distribution: Kashmir (Moore, 1874; Evans, 1932; Peile, 1937; Wynter-Blyth, 1957; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Samba, Billawar, Raika (Sheikh, 2018); Bhaderwah, Doda district (Kunte & Sengupta, 2020); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 03-viii-2019, 33°23'45.6"N 74°20'43.3"E, coll. T. Sheikh, (MDZ).

262. *Junonia hierta* (Fabricius, 1798)

Common name: **Yellow Pansy**.

Distribution: Kashmir (Moore, 1874; Gasse, 2018); Samba, Manda (Sheikh, 2018); Environmental park, Jammu; Bhaderwah, Doda district (Saji *et al.,* 2020-O); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 09-vii-2019, 33°23'37.1"N 74°20'32.2"E, coll. T. Sheikh, (MDZ).

263. *Junonia orithya* (Linnaeus, 1758) ssp**. *swinhoei*** (Butler, 1885)

Common name: **Blue Pansy**.

Distribution: Kashmir (Moore, 1874; Varshney & Smetacek, 2015; Gasse, 2018); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Samba, Manda (Sheikh, 2018); Bhaderwah, Doda district;

Environmental park, Jammu (Haneesh & Prashanth, 2020); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 09-vii-2019, 33°23'37.1"N 74°20'32.2"E, coll. T. Sheikh, (MDZ).

264. *Junonia lemonias* (Linnaeus, 1758) ssp. ***persicaria*** (Fruhstorfer, 1912)

Common name: **Lemon Pansy**.

Distribution: Kashmir (Moore, 1874; Fruhstorfer, 1912; Evans, 1932); Peile, 1937; Wynter-Blyth, 1957; Varshney & Smetacek, 2015; Gasse, 2018); Samba, Manda, Jasrota, Bani (Sheikh, 2018); Environmental park, Jammu (Saji *et al.,* 2020-Q); Sunjwan, Jammu; BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 08-vii-2019, 33°23'38.1"N 74°20'32.2"E, coll. T. Sheikh, (MDZ).

265. *Junonia almana* (Linnaeus, 1758)

Common name: **Peacock Pansy**.

Distribution: Kashmir (Moore, 1874; Gasse, 2018); Samba, Manda, Raika, Billawar (Sheikh, 2018); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 07-vii-2019, 33°23'36.1"N 74°20'29.1"E, coll. T. Sheikh, (MDZ).

266. *Junonia atlites* (Linnaeus, 1763)

Common name: **Grey Pansy**.

Distribution: Lakhanpur, Kathua district (Saji & Manoj, 2020).

267. *Junonia iphita* (Cramer, 1779) ssp. ***siccata*** (Fruhstorfer, 1900)

Common name: **Chocolate Soldier**.

Distribution: Kashmir (Moore, 1874; Stichel, 1908; Fruhstorfer, 1912; Evans, 1932; Wynter-Blyth 1957; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Samba, Manda, Chatha (Sheikh, 2018); Environmental park, Jammu; Kalidhar forest, Jammu district (Saji *et al.,* 2020-P); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 06-x-2019, 33°23'48.7"N 74°20'54.0"E, coll. T. Sheikh, (MDZ).

268. *Kallima inachus* (Boisduval, 1846) ssp. ***huegelii*** (Kollar, 1844)

Common name: **Orange Oakleaf**.

Distribution: Kashmir (Moore, 1874; de Niceville, 1886; Bingham, 1905; Stichel, 1908; Fruhstorfer, 1912; Evans, 1924; Peile, 1937; Wynter-Blyth, 1957; Smith, 1994; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Samba, Doda, Ramban (Sheikh, 2018); Environmental park, Jammu; Batote, Ramban district (Anonymous, 2020-N).

269. *Hypolimnas misippus* (Linnaeus, 1764)

Common name: **Danaid Eggfly**.

Distribution: Kashmir (Gasse, 2018); Kupwara district (Qureshi *et al.,* 2013-A); Gulmarg, Baramulla district (Qureshi *et al.,* 2013-B); Dachigam N.P. (Qureshi *et al.,* 2014); Samba, Ramnagar, Kathua (Sheikh, 2018); Environmental Park, Jammu; Manwal, Udhampur district; Bhaderwah, Doda district (Haneesh, 2020); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 11-viii-2019, 33°23'39.1"N 74°20'32.2"E, coll. T. Sheikh, (MDZ).

270. *Hypolimnas bolina* (Linnaeus, 1758) ssp. ***jacintha*** (Drury, 1773)

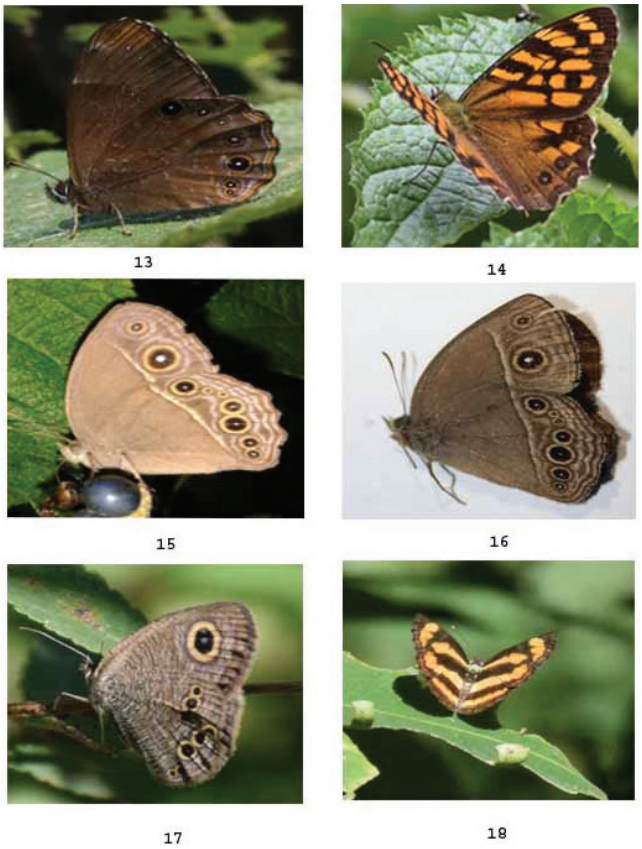
Common name: **Great Eggfly**.

Distribution: Kashmir (Moore, 1874; Gasse, 2018).

271. *Cyrestis thyodamas* (Boisduval, 1846) ssp. ***ganescha*** (Kollar, 1848)

Common name: **Common Map**.

Distribution: Kashmir (Moore, 1874; Evans, 1924; Peile, 1937; Wynter-Blyth, 1957; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Samba, Ramnagar, Bani (Sheikh, 2018); Khelani (Doda district); Chenani, Udhampur district; Batote, Ramban district (Ogale *et al.,* 2020-B); Budhal, Rajouri district (Taslima Sheikh, Recent record).



Figures 13-18. **13.** *Lethe sidonis Hewitson*, 1863.
14. *Rhaphicera moorei* Butler, 1867.
15. *Mycalesis perseus* Fabricius, 1775.
16. *Mycalesis mineus* Linnaeus, 1753.
17. *Ypthima bladus* Fabricius, 1775.
18. *Pantoporia hordonia* Stoll, 1790.

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 04-viii-2019, 33°22'47.3"N 74°38'44.6"E, coll. T. Sheikh, (MDZ).

272. ***Neptis sappho*** (Pallas, 1771) ssp. ***astola*** (Moore, 1872)

Common name: **Pallas's Sailer**.

Distribution: Kashmir (Moore, 1874; Evans, 1924; Peile, 1937; Varshney & Smetacek, 2015; Gasse, 2018); Dachigam N.P. (Qureshi *et al.,* 2014); Sunjwan, Jammu; BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 27-ix-2019, 33°23'35.4"N 74°20'31.5"E, coll. T. Sheikh, (MDZ).

273. ***Neptis hylas*** (Linnaeus, 1758) **ssp.** ***kamarupa*** (Moore, 1875)

Common name: **Common Sailer**.

Distribution: Kashmir (Bryk, 1946; Gasse, 2018).

274. ***Neptis soma*** (Moore, 1858) ssp. ***butleri*** (Eliot, 1969)

Common name: **Creamy Sailer**.

Distribution: Kashmir (Kehimkar, 2016; Gasse, 2018).

275. ***Neptis nata*** (Moore, 1858) ssp. ***yerburii*** (Butler, 1886)

Common name: **Sullied/Yerbury's Sailer**.

Distribution: Kashmir (Moore, 1898; Evans, 1924; Peile, 1937; Wynter-Blyth, 1957; Varshney & Smetacek, 2015; Gasse, 2018).

276. ***Neptis mahendra*** (Moore, 1872)

Common name: **Himalayan Sailer**.

Distribution: Kashmir (Moore, 1898; South, 1902; Stichel, 1908; Fruhstorfer, 1912; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018).

277. ***Neptis jumbah*** (Moore, 1858)

Common name: **Chestnut-streaked Sailer**.

Distribution: Samba, Manda, Raika (Sheikh, 2018); Manda hills, Jammu (Sheikh & Parey, 2019-B); Environmental Park, Jammu (Saji *et al.,* 2020-R).

278. ***Neptis sankara*** (Kollar, 1844)

Common name: **Broad-banded Sailer**.

Distribution: Kashmir (Moore, 1899; Bingham, 1905; Stichel, 1908; Fruhstorfer, 1912; Evans, 1932; Peile, 1937; Eliot, 1969; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Ruttun Pir (Moore, 1874).

279. ***Neptis ananta*** (Moore, 1858)

Common name: **Yellow Sailer**.

Distribution: Kashmir (Gasse, 2018); Ruttun Pir (Moore, 1874).

280. ***Neptis zaida*** (Doubleday, 1848)

Common name: **Pale Green Sailer**.

Distribution: Kashmir (Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018).

281. *Pantoporia hordonia* (Stoll, 1790) (Figure 18)

Common name: **Common Lascar**.

Distribution: Jasrota WLS, Kathua district (Agavekar *et al.,* 2020); BGSBU, Rajouri district (Taslima Sheikh, New record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 23-ix-2020, 33°23'39.1"N 74°20'25.5"E, coll. T. Sheikh, (MDZ).

282. *Athyma perius* (Linnaeus, 1758)

Common name: **Common Sergeant**.

Distribution: Kashmir (Moore, 1874; Gasse, 2018); Surinsar lake, Jammu (Sharma & Sharma, 2017-B); Samba, Manda, Doda (Sheikh, 2018); Environmental Park, Jammu (Ogale and Debnath, 2020); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 16-x-2019, 33°23'39.1"N 74°20'25.5"E, coll. T. Sheikh, (MDZ).

283. *Athyma opalina* (Kollar, 1844)

Common name: **Hill Sergeant**.

Distribution: Kashmir (Moore, 1874; Stichel, 1908; Fruhstorfer, 1912; Evans, 1924; Peile, 1937; Wynter-Blyth, 1957; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Mantalai, Udhampur district (Anonymous, 2020-D2); BGSBU, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 31-x-2019, 33°23'41.1"N 74°20'46.2"E, coll. T. Sheikh, (MDZ).

284. *Athyma cama* (Moore, 1858)

Common name: **Orange Staff Sergeant**.

Distribution: Sunderbani, Rajouri (Sheikh & Parey, 2019-B).

285. *Limenitis hydaspes* (Moore, 1874)

Common name: **Chitral White Admiral**.

Distribution: Kashmir (Moore, 1874; Stichel, 1908; Gaede, 1930; D'Abrera, 1993); Sind, Liddar and Gurais valleys (Varshney & Smetacek, 2015; Gasse, 2018).

286. *Limenitis ligyes* (Hewitson, 1864)

Common name: **Kashmir White Admiral**.

Distribution: Kashmir (Lang, 1868; Bingham, 1905; Fruhstorfer, 1912; Evans, 1924; Gasse, 2018); Goorais valley (South, 1902); Pir Panjal, Kashmir (Varshney & Smetacek, 2015); Paddar, Kishtwar district (Anonymous, 2020-O2).

287. *Limenitis trivena* (Moore, 1864)

Common name: **Indian White Admiral**.

Distribution: Kashmir (Moore, 1874; Bingham, 1905; Stichel, 1908; Fruhstorfer, 1912; Antram, 1924; D'Abrera, 1993; Smith, 1994; Varshney & Smetacek, 2015; Kehimkar, 2016; Gasse, 2018); Bhaderwah, Doda district (Anonymous, 2020-P).

288. *Moduza procris* (Cramer, 1777)

Common name: **Commander**.

Distribution: Samba, Jasrota (Sheikh, 2018); Raika Environmental park, Jammu (Sheikh & Parey, 2019-B).

289. *Auzakia danava* (Moore, 1858)

Common name: **Commodore**.

Distribution: Kashmir (Moore, 1874; Gasse, 2018); Bhaderwah, Doda district (Sharma & Sharma, 2018-B; Anonymous, 2020-F2).

290. *Symphaedra nais* (Forster, 1771)

Common name: **Baronet**.

Distribution: Samba, Ramnagar, Kathua (Sheikh, 2018); Environmental Park, Jammu (Churi, 2020-A).

291. *Euthalia aconthea* (Cramer, 1777) ssp. ***anagama/ garuda*** (Fruhstorfer, 19130)

Common name: **Common Baron**.

Distribution: Kashmir (Gasse, 2018); Samba, Manda, Kathua (Sheikh, 2018); Environmental Park, Jammu district (Saji *et al.,* 2020-M); Sunderbani, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 10-x-2019, 33°23'39.1"N 74°20'32.8"E, coll. T. Sheikh, (MDZ).

292. *Euthalia patala* (Kollar, 1844)

Common name: **Grand Duchess**.

Distribution: Kashmir (Varshney & Smetacek, 2015;

Kehimkar, 2016; Gasse, 2018); Budhal, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1700 m msl, 04-viii-2019, 33°21'51.5"N 74°42'52.4"E, coll. T. Sheikh, (MDZ).

293. *Pseudergolis wedah* (Kollar, 1848)

Common name: **Tabby**.

Distribution: Kashmir (Moore, 1874; Bingham, 1905; Stichel, 1908; Gasse, 2018); Samba, Manda, Ramnagar (Sheikh, 2018); Dalhori, Rajouri district; Kalidhar, Jammu district (Sharma & Sharma, 2018-B); Chenani, Udhampur district (Karmakar & Sarkar, 2020).

294. *Stibochiona nicea* (Gray, 1846)

Common name: **Popinjay**.

Distribution: Kashmir (Moore, 1896; Gasse, 2018).

295. *Mimathyma ambica* (Kollar, 1844)

Common name: **Indian Purple Emperor**.

Distribution: Kashmir (Moore, 1874; Bingham, 1905; Fruhstorfer, 1912; Antram, 1924; Evans, 1932; Peile, 1937; Kehimkar, 2016; Smetacek, 2018; Gasse, 2018).

296. *Mimathyma chitralensis* (Evans, 1912)

Common name: **Chitral Purple Emperor**.

Distribution: Kashmir (Evans, 1927; Varshney &Smetacek, 2015; Smetacek, 2018).

297. *Dilipa morgiana* (Westwood, 1850)

Common name: **Golden Emperor**.

Distribution: Kashmir (Moore, 1874; Fruhstorfer, 1912; Evans, 1927; Varshney & Smetacek, 2015; Kehimkar, 2016; Smetacek, 2018; Gasse, 2018).

298. *Sephisa dichroa* (Kollar, 1844)

Common name: **Western Courtier**.

Distribution: Kashmir (Moore, 1874; Bingham, 1905; Stichel, 1908; Kehimkar, 2016; Gasse, 2018); Bhaderwah, Doda district (Anonymous, 2020-V).

299. *Euripus consimilis* (Westwood, 1850)

Common name: **Painted Courtesan**.

Distribution: Kashmir (Moore, 1874).

300. *Hestina persimilis* (Westwood, 1850) ssp. ***zella*** (Butler, 1869)

Common name: **Siren**.

Distribution: Kashmir (Fruhstorfer, 1912; Varshney & Smetacek, 2015; Gasse, 2018).

301. *Hestina nicevillei* (Moore, 1895)

Common name: **Scarce Siren**.

Distribution: Kashmir (Varshney & Smetacek, 2015; Gasse, 2018).

302. *Hestinalis nama* (Doubleday, 1844)

Common name: **Circe**.

Distribution: Kashmir (Moore, 1874; Gasse, 2018).

303. *Polyura athamas/bharata* (Drury, 1773)

Common name: **Common/Indian Nawab**.

Distribution: Kashmir (Moore, 1874; Bingham, 1905; Stichel, 1908; Gasse, 2018); Environmental park, Jammu; University of Jammu (Ogale*et al.,* 2020-A).

304. *Polyura agraria* (Swinhoe, 1887)

Common name: **Anomalous Nawab**.

Distribution: Uttarbehni (Samba district); University of Jammu (Sharma & Sharma, 2017-B); Kashmir (Jammu) (Gasse, 2018).

305. *Polyura dolon* (Westwood, 1847)

Common name: **Stately Nawab**.

Distribution: Kashmir (Smiles, 1982; Gasse, 2018).

306. *Charaxes solon* (Fabricius, 1793)

Common name: **Black Rajah**.

Distribution: Samba, Billawar (Sheikh, 2018); Near Mansar lake, Jammu (Sheikh & Parey, 2019-B); Environmental park, Jammu district (Patel *et al.,* 2020).

307. *Acraea issoria* (Huebner, 1819) ssp. ***anomala*** (Kollar, 1848)

Common name: **Yellow Coster**.

Distribution: Kashmir (Moore, 1874; Gasse, 2018); Batote (Ramban district) (Sharma & Sharma, 2018-B); Bani, Kathua district (Kunte *et al.,* 2020-B); Budhal, Rajouri district (Taslima Sheikh, Recent record).

Material examined: India: J&K, Rajouri, BGSBU, 1200 m msl, 09-vii-2019, 33°21'51.4"N 74°42'52.5"E, coll. T. Sheikh, (MDZ).

308. *Acraea violae* (Fabricius, 1793)

Common name: **Tawny Coster**.

Distribution: Samba, Manda, Raika, Akhnoor (Sheikh, 2018); Manda hills, Jammu (Sheikh & Parey, 2019-B); Jammu (Saji *et al.,* 2020-A).

Discussion

The above checklist is an attempt of presenting a complete account of all the species ever recorded in the UT J&K with proper references. Reviewing the old literature is of great significance as recently,some records have been published as new or first for J&K (e.g. *Chilasa clytia, Delias eucharis, Athyma perius, Auzakia danava, Pseudergolis wedah* etc.) but those records for J&K already existed in the old literature. Some records are present in the old literature (e. g. *Euripus consimilis*) but were left out in the recent lists of Indian and South Asian butterflies (Varshney & Smetacek, 2015; Gasse, 2018). 18 species are first time being reported from J&K i.e. *Hasora chromus* Cramer, *Badamia exclamationis* Fabricius, *Suastus gremius* Fabricius, *Pachliopta aristolochiae* Fabricius, *Prosotas dubiosa* Semper, *Jamides bocus* Stoll, *Zizina otis* Fabricius, *Azanus ubaldus* Stoll, *Azanus Uranus* Butler, *Freyeria putli* Kollar, *Rapala varuna* Horsfield, *Parantica melaneus* Cramer, *Lethe sidonis* Hewitson, *Rhaphicera moorei* Butler, *Mycalesis perseus* Fabricius, *Mycalesis mineus* Linnaeus, *Ypthima baldus* Fabricius and *Pantoporia hordonia* Stoll (Figure 1-18) all recorded by TS. Four of which (*Badamia exclamationis, Suastus gremius, Prosotas dubiosa* and *Pantoporia hordonia*) are also published on Indian Foundation for Butterflies website. (http://www.ifoundbutterflies.org). Some of the species that occur in adjoining states like Himachal Pradesh, Punjab & Gilgit Baltistan could also be found in future in Union territory of Jammu & Kashmir. These species include: *Bibasis sena* (Moore, 1866), *Celaenorrhinus ratna* (Fruhstorfer, 1909), *Odontoptilum angulatum* (C. & R. Felder, 1862), *Caprona alida* (de Niceville, 1891), *Gomalia elma* (Trimen, 1862), *Notocrypta feisthamelii* (Boisduval, 1832), *Potanthus pallid* (Evans, 1932), *Telicota bambusae* (Moore, 1878), *Appias libythea* (Fabricius, 1775), *Leptosia nina* (Fabricius, 1793), *Colotis fausta* (Olivier, 1804), *Castalius rosimon* (Fabricius, 1775), *Chilades parrhasius* (Fabricius, 1793), *Tajuria cippus* (Fabricius, 1798), *Ypthima inica* (Hewitson, 1865), *Cupha erymanthis* (Drury, 1773); (Evans, 1949; Tshikolovets & Pages, 2016; Gasse, 2018; Roberts, 2001; Varshney & Smetacek, 2015; Evans, 1927; Sharma *et al.,* 2015; Cantlie, 1962; Hasan, 1994). Note: Sheikh & Parey 2019-B published new records of butterflies which are relevant and authenticated by reviewers but only photographs of species Udaspes folus (grass demon) was misplaced during final printing.

Conclusion

The authors are aware that the present list (counting 308 species) will grow in future, if more extensive surveys are carried out in the various parts of the UT, as much of J&K is still unexplored. This work can serve as a baseline reference for further studies on butterflies of the area. It will also be helpful in future works on the diversity and distribution of the butterflies, as well as in identification of the areas of rich biodiversity in order to map out the conservation measures.

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