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MOTHS OF BANDHAVGARH NATIONAL PARK, MADHYA PRADESH

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ABSTRACT

The paper deals with the study of 48 species of moths belonging to 42 genera under 10 families collected from different localities of Bandhavgarh National Park by the survey team of Zoological Survey of India, Jabalpur. All the species are reported for the first time from this National Park.

INTRODUCTION

Bandhavgarh National Park (BNP) is located in the Satpura hill ranges of Umaria district. The park lies between 80°57'30"-80°06'15" E longitudes and 23°36'30"-23°42'30" N latitudes. The BNP was notified vide no. 2977/X/68 on 23rd March, 1968. The main entry to the park is through Tala village, which is 35km. north of Umaria town. The park is more or less rectangular in shape and covers an area of 105 sq. km., ranging in altitude from 440.00 meters in the valleys to 811.40 metres on the highest ridge top. The area consists of mainly hillocks of varying sizes interspersed with large number of varying sized valleys. The ground is undulating; the hill tops are flat while the lower portions of valleys are grassy meadows locally called Bah. Most of these Bahs are marshy lands with seepages from ground. The BNP is one of well known National Park in Madhya Pradesh, famous for the healthy population of tigers and variety of herbivores. The vegetation of the National Park is tropical moist deciduous type. Depending upon the main forests species, the forests of BNP may be classified into Sal forests, mixed forests and grasslands.

Order LEPIDOPTERA

Suborder HETEROCERA

I. Family SPHINGIDAE

1. *Clanis* sp.

1822. *Clanis* Hubner : 138.

1937. *Clanis*, Bell & Scott, *Fauna Brit. India*, Moths, 5 : 139.

1997. *Clanis*, Mandal & Maulik, *Fauna of West Bengal*, Zool Surv. India, 7 : 622.

Material examined : Umaria, BNP, Tala, 3.10.2002 (1ex.), Coll. M. L. Koshta.

Wing expanse : 130 mm.

Distribution : India : Throughout including Madhya Pradesh (Umaria). *Elsewhere* : Oriental extending into the Palaearctic and Ethiopian Regions.

2. *Hippotion boerhaviae* (Fabricius)

1775. *Sphinx boerhaviae* Fabricius, *Syst. Ent. P.*, : 542.

1937. *Hippotion boerhaviae*, Bell & Scott, *Fauna Brit. India*, Moths, 5 : 424.

1997. *Hippotion boerhaviae*, Mandal & Maulik, *Fauna of West Bengal*, zool Surv. India, 7 : 637.

Material examined : Umaria, BNP, Tala, 3.10.2002, (2ex.), Coll. R. K. Singh.

Wing expanse : 52 mm.

Distribution : India : Madhya Pradesh (Indore, Seoni and Umaria), West Bengal, Andhra Pradesh, Gujarat, Orissa, Sikkim, Southern Peninsula, West Himalaya and Maharashtra. *Elsewhere* : Pakistan, Sri Lanka, Bhutan, South China, Malaya and Philippines.

3. *Marumba dyras dyras* (Walker)

1869. *Smerinthus dyras* Walker, *Cat. Lep. Het. Brit. Mus.*, 8 : 250.

1937. *Marumba dyras dyras*, Bell & Scott, *Fauna Brit. India*, Moths, 5 : 179.

Material examined : Umaria, BNP, Tala, 26.9.2002 (2ex.), Coll. M. L. Koshta.

Wing expanse : 92 mm.

Distribution : India : Madhya Pradesh (Hoshangabad and Umaria), Western and Eastern Himalayas, South India and Andaman Islands. *Elsewhere* : Southeast Asia.

4. *Nephele didyma* (Fabricius)

1777. *Sphinx didyma* Fabricius, *Syst. Ent.*, : 543.

1937. *Nephele didyma*, Bell & Scott, *Fauna Brit. India*, Moths, 5 : 325.

Material examined : Umaria, BNP, Tala, 19.9.2002, (1ex.), Coll. M. L. Koshta.

Wing expanse-72 mm.

Distribution : India : Madhya Pradesh (Indore, Seoni, Shivpuri, Umaria). Western and Eastern Himalayas, South India, Andaman Islands. *Elsewhere* : Southeast Asia, Pakistan, Afghanistan, New Guinea and Northern Australia.

5. *Oxyambulyx* sp.

1903. *Oxyambulyx* Rothschild & Jordan : 192.

1937. *Oxyambulyx*, Bell & Scott, *Fauna Brit. India*, Moths, **5** : 109.

Material examined : Umaria, BNP, Tala, 27.9.2002 (1ex.), Coll. M. L. Koshta.

Wing expanse : 120 mm.

Distribution : India including Madhya Pradesh (Umaria). *Elsewhere* : Palaearctic Region to the Philippines.

6. *Psilogramma menephron menephron* (Cramer)

1780. *Sphinx menephron* Cramer, *Pap. Exot.*, **3** : 164.

1937. *Psilogramma menephron menephron*, Bell & Scott, *Fauna Brit. India*, Moths, **5** : 77.

Material examined : Umaria, BNP, Tala, 19.9.2002, (1ex.), Coll. R. K. Singh.

Wing expanse : 110 mm.

Distribution : Throughout India including Madhya Pradesh (Seoni and Umaria). *Elsewhere* : Nepal, Sri Lanka, China and eastwards to the Solomon Islands and Eastern Australia.

7. *Rhyncholaba acteus* (Cramer)

1779. *Sphinx acteus* Cramer, *Pap. Exot.* li : 93.

1937. *Rhyncholaba acteus*, Bell & Scott, *Fauna Brit. India*, Moths, **5** : 462.

1982. *Rhyncholaba acteus*, Barlow, *An Introduction to the Moths of South East Asia* : 60.

Material examined : Umaria, BNP, Tala, 30.9.2002, (1ex.), Coll. R. K. Singh.

Wing expanse : 72 mm.

Distribution : India : Madhya Pradesh (Mandla and Umaria), Western and Eastern Himalayas and South India. *Elsewhere* : Sri Lanka, Myanmar to the Moluccas and China.

8. *Theretra alecto alecto* (Linnaeus)

1758. *Sphinx alecto* Linnaeus, *Syst. Nat. Ed.*, **10** : 492.

1937. *Theretra alecto alecto*, Bell & Scott, *Fauna Brit. India*, Moths, **5** : 440.

Material examined : Umaria, BNP, Tala, 29.9.2002, (1ex.), Coll. R. K. Singh.

Wing expanse : 80 mm.

Distribution : India : Madhya Pradesh (Indore, Jabalpur, Hoshangabad, Umaria), Western and Eastern Himalayas, and South India. *Elsewhere* : Myanmar, Northward to Formosa, and Eastward to the Key Islands.

9. *Theretra boisduvali* (Bugnion)

1839. *Sphinx boisduvali* Bugnion, *Ann. Soc. ent. France*, F : 115.
 1937. *Theretra boisduvali*, Bell & Scott, *Fauna Brit. India*, Moths, 5 : 433.
 1987. *Theretra boisduvali*, Holloway, *The Moths of Borneo*, Part, 3 : 174.

Material examined : Umaria, BNP, Tala, 25.9.2002 (1ex.), Coll. M. L. Koshta.

Wing expanse : 106 mm

Distribution : India : Madhya Pradesh (Seoni and Umaria), Chhattisgarh (Bilaspur) and Sikkim.
Elsewhere : Sri Lanka, South-west Asia to Sundaland and Lesser Sundas.

10. *Theretra oldenlandiae oldenlandiae* (Fabricius)

1775. *Sphinx oldenlandiae* Fabricius, *Syst. Ent.*, : 542.
 1937. *Theretra oldenlandiae oldenlandiae*, Bell & Scott, *Fauna Brit. India*, Moths, 5 : 448.

Material examined : Umaria, BNP, Tala, 1.10.2002 (3ex.), Coll. R. K. Singh.

Wing expanse : 70 mm.

Distribution : India : Madhya Pradesh (Indore, Hoshangabad, Umaria), Western and Eastern Himalayas, South India. *Elsewhere* : Sri Lanka, Myanmar to Japan and New Guinea.

II. Family GEOMETRIDAE

11. *Antitrygodes cunceilinea* (Walker)

1863. *Geometra cunceilinea* Walker, *Cat. Lep. Het. Brit. Mus.*, xxvi, : 1752.
 1895. *Trygodes cunceilinea*, Hampson, *Fauna Brit. India*, Moths, 3 : 461.
 1982. *Antitrygodes cunceilinea*, Barlow, *An introduction to the Moths of South East Asia* : 124.

Material examined : Umaria, BNP, Tala, 29.9.2002 (1ex.), Coll. R. K. Singh.

Wing expanse : 32 mm.

Distribution : India : Madhya Pradesh (Hoshangabad, Seoni and Mandla, Umaria). *Elsewhere* : Myanmar, Thailand and Malaya.

12. *Godonela translineata* Walker.

1866. *Macaria translineata* Walker, *List Specimens lipid. Insects Colln Br. Mus.*, 35: 1658.
 1997 *Godonela translineata*, Holloway, *The Moths of Borneo, The Malayan Nature Journal*, 47(12) : 166.

Material examined : Umaria, BNP, Tala, 21.9.2002 (1ex.), Coll. M. L. Koshta.

Wing expanse : 32 mm.

Distribution : India : Madhya Pradesh (Umaria). *Elsewhere* : Borneo, Sumatra, Thailand and Sulawesi.

13. *Hyposidra talaca* (Walker)

1860. *Lagyra talaca* Walker, *Cat. Lep. Het. Brit. Mus.*, 20 : 59.

1895. *Hyposidra talaca*, Hampson, *Fauna Brit. India*, Moths, 3 : 213.

Material examined : Umaria, BNP, Tala, 30.9.2002 (2ex.), Coll. M. L. Koshta.

Wing expanse : 44 mm.

Distribution : Throughout India including Madhya Pradesh (Hoshangabad and Umaria) and Andamans. *Elsewhere* : Myanmar, Java, Sri Lanka, Borneo, Celebes, and Philippines.

III. Family NOTODONTIDAE

14. *Antheua servula* (Drury)

1773. *Phalaena servula* Drury, *Ins Exot.* ii : 20.

1887. *Antheua discalis*, Cotes & Swinhoe, *Cat. Moths of India*, II : 171.

1892. *Antheua servula*, Hampson, *Fauna Brit. India*, Moths, 1 : 145.

Material examined : Umaria, BNP, Tala, 29.9.2002, (1ex.), Coll. R. K. Singh.

Wing expanse : 45 mm.

Distribution : India : Madhya Pradesh (Indore, Umaria), Maharashtra, Himachal Pradesh and Tamil Nadu. *Elsewhere* : Sri Lanka, Myanmar and Java.

15. *Cerura liturata* Walker

1859. *Cerura liturata* Walker, *Cat. Lep. Het. Brit. Mus.*, v : 988.

1892. *Cerura liturata*, Hampson, *Fauna Brit. India*, Moths, 1: 155.

Material examined : Umaria, BNP, Tala, 20.9.2002, (2ex.), Coll. M. L. Koshta

Wing expanse : Male-46 mm.

Distribution : India : Madhya Pradesh (Seoni and Umaria), Maharashtra, Tamil Nadu, Assam and Sikkim. *Elsewhere* : Sri Lanka and China.

16. *Phalera raya* Moore

1859. *Phalera raya* Moore, *Cat. Lep. Mus. E. I. C.*, ii : 434.

1892. *Phalera raya*, Hampson, *Fauna Brit. India*, Moths, 1 : 134.

Material examined : Umaria, BNP, Tala, 26.9.2002 (4ex.), Coll. M. L. Koshta.

Wing expanse : 78 mm.

Distribution : India : Madhya Pradesh (Seoni, Hoshangabad, Umaria), Maharashtra, Himachal Pradesh, West Bengal, Tamil Nadu, Nagaland and Sikkim. *Elsewhere* : Sri Lanka and China.

17. *Spatalia argentifera* (Walker)

1862. *Allata argentifera* Walker, *J. Linn. Soc. Lond. Zool.*, 6 : 140.

1892. *Spatalia argentifera*, Hampson, *Fauna Brit. India*, Moths, 1 : 169.

Material examined : Umaria, BNP, Tala, 24.9.2002, (6ex.), Coll. M. L. Koshta.

Wing expanse : 50-54 mm.

Distribution : India : Madhya Pradesh (Seoni and Umaria), Sikkim and Karnataka. *Elsewhere* : Myanmar.

IV. Family URANIIDAE

18. *Micronia aculeata* Guenee

1857. *Micronia aculeata* Guenee, *Hist. Nat. Des. Ins.*, : 26.

1895. *Micronia aculeata*, Hampson, *Fauna Brit. India*, Moths : 117.

Material examined : Umaria, BNP, Tala, 27.9.2002 (2ex.), Coll. M. L. Koshta.

Wing expanse : 42mm.

Distribution : Throughout India including Madhya Pradesh (Hoshangabad, Seoni, Umaria), and Andaman's. *Elsewhere* : China, Formosa, Myanmar, Java, Sri Lanka and Borneo.

V. Family SATURNIIDAE

19. *Actias selene* (Hubner)

1806. *Echidna caudate selene* Hubner, *Samml. Exot. Schmett.*, 1: 3 pl. : 172(M), 174 (F)

1892. *Actias selene*, Hampson, *Fauna Brit. India*, Moths, 1 : 13.

Material examined : Umaria, BNP, Tala, 2.10.2002 (5ex.), Coll. R. K. Singh.

Wing expanse : 132-140 mm.

Distribution : Throughout India including Madhya Pradesh (Seoni and Umaria). *Elsewhere* : Sri Lanka, Myanmar and China.

VI. Family PYRALIDAE

20. *Cirrhochrista brizoalis* (Walker)

1859. *Margaronia brizoalis* Walker, *Cat.*, xix: 976.

1896. *Cirrhochrista brizoalis*, Hampson, *Fauna Brit. India*, Moths, iv: 50.

Material examined : Umaria, BNP, Tala, 3.10.2002, (3ex.), Coll. R. K. Singh.

Wing expanse : Male: 22-28 mm.

Distribution : India: Madhya Pradesh (Seoni and Umaria), Maharashtra, Tamil Nadu, and N. W. Himalayas. *Elsewhere* : Australia, Borneo, Celebes, China, Japan and Taiwan.

21. *Cnaphalocrocis medinalis* (Guenee)

1854. *Salbia medinalis* Guenee, *Delt & Pyral.*, : 201.

1896. *Cnaphalocrocis medinalis*, Hampson, *Fauna Brit. India*, Moths, 4 : 275.

1980. *Cnaphalocrocis medinalis*, Mandal & Bhattacharya, *Rec. zool. Surv. India*, 77(1-4) : 306.

Material examined : Umaria dist. BNP, Tala, 25.9.02, (2ex), Coll. R. K. Singh. Mandla dist. Kisli, 8.9.2003 (1ex), Coll. D. K. Nema.

Wing expanse : 20-22 mm.

Distribution : Throughout India including Madhya Pradesh (Umaria and Mandla). *Elsewhere* : Japan; throughout the Oriental and Australian regions.

22. *Diaphania bivitalis* (Guenee)

1854. *Glyphodes bivitalis* Guenee, *Delt. Edt. Pyral.*, : 293.

1896. *Glyphodes bivitalis*, Hampson, *Fauna Brit. India*, Moths, 4: 355.

1980. *Diaphania bivitalis*, Mandal & Bhattacharya, *Rec. zool. Surv. India*, 77(1-4): 324.

Material examined : Umaria, BNP, Tala, 2.10.02 (1ex), coll. R. K. Singh.

Wing expanse : 34 mm.

Distribution : India : Madhya Pradesh (Umaria), Himachal Pradesh (Simla), Sikkim, West Bengal (Kolkata) Maharashtra (Mumbai), Tamil Nadu, Uttaranchal and Andamans & Nicobar Island. *Elsewhere* : Australia, Borneo, Myanmar, Java, Malaya, Philippines and Sri Lanka.

23. *Euclasta defamatalis* (Walker)

1859. *Ilurgia defamatalis* Walker, *Cat. Lep. Het. Brit. Mus.* xviii : 544.

1896. *Euclasta defamatalis*, Hampson, *Fauna Brit. India*, Moths, 4: 364.

Material examined : Umaria, BNP, Tala, 3.10.02 (2ex), coll. R. K. Singh

Wing expanse : 24-30 mm.

Distribution : Throughout India including Madhya Pradesh (Seoni and Umaria). *Elsewhere* : Sri Lanka and Myanmar.

24. *Hymenia recurvalis* (Fabricius)

1782. *Phalaena recurvalis* Fabricius, *Ent. Syst. iii*, pt. 2 : 237.

1896. *Zinckenia fascialis*, Hampson, *Fauna Brit. India*, Moths, 4 : 262.

1980. *Hymenia recurvalis*, Mandal & Bhattacharya, *Rec. zool. Surv. India*, 77(1-4) : 303.

Material examined : Umaria, BNP, Tala, 21.9.2002 (1ex.). Patour, 23.9.02 (1ex) Coll. M. L. Koshta.

Wing expanse : 24 mm.

Distribution : Throughout India including Madhya Pradesh (Hoshangabad, Seoni, Jabalpur, Umaria). *Elsewhere* : Syria, Japan, and Australia.

25. *Maruca testulalis* (Geyer)

1832. *Crochiphora testulalis* Geyer, *Hubn. Sammal. Exot. Schmett*, 4 (4) : 12.

1896. *Maruca testulalis* Hampson, *Fauna Brit. India*, Moths, 4 : 393.

Material examined : Umaria, BNP, Tala, 29.9.2002 (4ex.), Coll. M. L. Koshta.

Wing expanse : 26-30 mm.

Distribution : Throughout India including Madhya Pradesh (Seoni and Umaria), *Elsewhere* : Australian, Oriental Neotropical and Ethiopian regions.

26. *Nymphula fluctuosalis* (Zeller)

1852. *Nymphula fluctuosalis* Zeller, *K. Vet. A. K. Handl.*, : 27.

1896. *Nymphula fluctuosalis*, Hampson, *Fauna Brit. India*, Moths, 4 : 193.

Material examined : Umaria dist. Tala, BNP, 20.9.02(2ex), 26.9.02 (1ex), Coll. R. K. Singh.

Wing expanse : 18 mm.

Distribution : Throughout India including Madhya Pradesh (Seoni and Umaria). *Elsewhere* : Throughout the tropical and subtropical zones, on the north to Formosa and the Sandwich Islands, on the south to Australia.

27. *Sameodes cancellalis* (Zeller)

1852. *Botys cancellalis* Zeller, *K. Vet. A. K. Handl. P.* : 34.

1896. *Sameodes cancellalis*, Hampson, *Fauna Brit. India*, Moths, 4 : 375.

Material examined : Umaria, BNP, Tala, 2.10.2002 (2ex.), Coll. M. L. Koshta.

Wing expanse : 22 mm.

Distribution : Throughout India including Madhya Pradesh (Hoshangabad, Seoni and Umaria). *Elsewhere* : Sri Lanka, Africa, Australia, Myanmar, Fiji, and Java.

28. *Synclera traducalis* (Zeller)

1852. *Eudiotis traducalis* Zeller, *kgl. Vet. Akad. Handl. Lep. Micropt. Caffr.*, : 54.

1896. *Pagyda traducalis*, Hampson, *Fauna Brit. India*, Moths, 4 : 272.

1980. *Synclera traducalis*, Mandal & Bhattacharya, *Rec. zool. Surv. India*, 77 : 327.

Material examined : Umaria dist. BNP, Tala, 29.9.02 (1ex), R. K. Singh.

Wing expanse : 22 mm.

Distribution : Throughout India including Madhya Pradesh (Seoni and Umaria). *Elsewhere* : S. America, S. Africa, Aden, Syria, Palestine, Sri Lanka and Myanmar.

29. *Tyspanodes linealis* (Moore)

1867. *Propachys linealis* Moore, *Proc. Zool. Soc. Lond.*, : 665.

1896. *Tyspanodes linealis*, Hampson, *Fauna Brit. India*, Moths, 4 : 298.

Material examined : Umaria, BNP, Tala, 3.10.2002 (4ex.), Coll. R. K. Singh.

Wing expanse : 28 mm.

Distribution : Throughout India including Madhya Pradesh (Umaria, Jabalpur), Sikkim, Himachal Pradesh and Andamans.

VII. Family LASIOCAMPIDAE

30. *Estigena pardalis* Walker

1856. *Estigena pardalis* Walker, *Cat. Lep. Het. Brit. Mus.*, vi: 1435.

1892. *Estigena pardalis*, Hampson, *Fauna Brit. India*, Moths, 1: 424.

Material examined : Umaria dist. BNP, Tala, 3.10.02, (1ex), Coll. D. K. Nema.

Wing expanse : 45 mm.

Distribution. : Throughout India including Madhya Pradesh (Mandla, Umaria). *Elsewhere* : Sri Lanka.

31. *Lebeda* sp.

1855. *Lebeda* Walker, *Cat. Lep. Het. Brit. Mus.*, vi : 1453.

1892. *Lebeda*, Hampson, *Fauna Briti. India*, Moths, 1 : 407.

Material examined : Umaria, BNP, Tala, 22.9.2002 (1ex.), Coll. M. L. Koshta.

Distribution : Throughout India including Madhya Pradesh (Seoni and Umaria), Himalayas, Assam hills and Sylhet.

VIII. Family ARCTIDAE

32. *Cretonotus gangis* (Linnaeus)

1764. *Phalaena gangis* Linnaeus, *Amoen. Acad.*, 6: 410.

1991. *Cretonotus gangis*, Mandal & Ghosh, *Fauna of Tripura, Rec. zool. Surv. India*, 88 (3&4): 313-314.

Material examined : Umaria, BNP, Tala, 29.9.2002, (1ex.), Coll. R. K. Singh.

Wing expanse : 40mm.

Distribution : Throughout India including Madhya Pradesh (Indore, Hoshangabad, Chhindwara and Umaria), West Bengal, Maharashtra, Gujarat, Andhra Pradesh, Kerala, Tamil Nadu, Assam, Meghalaya, Arunachal Pradesh and Tripura. *Elsewhere* : Myanmar, Sri Lanka, Western Malaysia, Java, Australia, China, Pakistan and Nepal.

33. *Cretonotus lactineus* Cramer

1777. *Cretonotus lactineus* Cramer, *Pap. Exot.*, 2 : 133.

1894. *Cretonotus lactineus*, Hampson, *Fauna Brit. India, Moths*, 2 : 27.

Material examined : Umaria, BNP, Tala, 25.9.2002 (6ex.), Coll. M. L. Koshta.

Wing expanse : 56-66 mm.

Distribution : Throughout India including Madhya Pradesh (Seoni and Umaria). *Elsewhere* : Myanmar, Sri Lanka, China and Java.

34. *Olepa ricini* (Fabricius)

1775. *Bombyx ricini* Fabricius, *Syst. Ent.*, : 583.

1894. *Arctia ricini*, Hampson, *Fauna Brit. India, Moths*, 2 : 17.

1982. *Olepa ricini*, Arora & Chauchury, *Arctiidae of North-East India, Zoological Survey of India, Technical Monograph No. 6* : 21.

Material examined : Umaria, BNP, Tala, 30.9.2002, (6ex.), Coll. R. K. Singh.

Wing expanse : 38-48 mm.

Distribution : Throughout India including Madhya Pradesh (Mandla, Umaria). *Elsewhere* : Sri Lanka and Bangladesh.

IX. Family HYPSIIDAE

35. *Asota caricae* (Fabricius)

1792. *Noctua caricae* Fabricius, *Syst. Ent.*, 3, 2 : 27.

1892. *Hypsa alciphron*, Hampson, *Fauna Brit. India, Moths*, 1 : 502.

1982. *Asota caricae*, Barlow, *An introduction to the Moths of South East Asia* : 77.

Material examined : Umaria, BNP, Tala, 26.9.2002, (1ex.), Coll. R. K. Singh.

Wing expanse : 68 mm.

Distribution : Throughout India including Madhya Pradesh (Seoni and Umaria). *Elsewhere* : Myanmar, Sri Lanka, Penang, Java, Amboina, Ceram, New Guinea, New Hebrides, Solomons, and New Ireland.

X. Family NOCTUIDAE

36. *Cetola dentata* Walker

1855. *Cetola dentata* Walker, *Cat. Lep. Het. Brit. Mus.*, V : 1016.

1886. *Cetola dentata*, Cotes & Swinhoe., *Cat. Moths of India* : 174.

1894. *Cetola dentata*, Hampson, *Fauna Brit. India*, Moths, 2 : 434.

Material examined : Umaria dist. BNP, Tala, 27.9.02 (2ex), R. K. Singh.

Wing expanse : 46 mm.

Distribution : Throughout India including Madhya Pradesh (Indore and Umaria). *Elsewhere* : Nepal.

37. *Chrysodeixis eriosoma* (Doubleday)

1843. *Plusia eriosoma* Doubleday, *Dieffenbach's New Zealand*, 2 : 285.

1894. *Plusia eriosoma*, Hampson, *Fauna Brit. India*, Moths, 2 : 569-570.

1985. *Chrysodeixis eriosoma*, Holloway, *The Moths of Borneo, The Malayan Nature Journal*, 38(3&4) : 289.

Material examined : Umaria, BNP, Tala, 23.9.2002 (1ex.), Coll. M. L. Koshta.

Wing expanse : 42 mm.

Distribution : Throughout India including Madhya Pradesh (Jabalpur, Seoni and Umaria). *Elsewhere* : North and South America, Japan, China, and Australasian regions.

38. *Episparis varialis* Walker

1858. *Episparis varialis* Walker, *Cat. Lep. Het. B. M.*, xvi : 7.

1888. *Episparis varialis*, Cotes & Swinhoe, *Cat. Moths of India*, : 435.

1894. *Episparis varialis*, Hampson, *Fauna Brit. India*, Moths, 2 : 543.

Material examined : Umaria, BNP, Tala, 25.9.2002, (2ex.), Coll. R. K. Singh.

Wing expanse : 60 mm.

Distribution : Peninsular India including Madhya Pradesh (Indore, Seoni and Umaria) and Andamans. *Elsewhere* : Sri Lanka.

39. *Ercheia multilinea* Swinhoe

1902. *Ercheia multilinea* Swinhoe, *Ann. Mag. Nat. Hist.*, 7 : 84.

1985. *Ercheia multilinea*, Lutz & Kobes, *Heterocera Sumatrana*, Band, 4 : 38.

Material examined : Umaria dist. BNP, Tala, 3.10. 2002(1ex.), Coll. R. K. Singh.

Wing expanse : 50 mm.

Distribution : Throughout India including Madhya Pradesh (Seoni and Umaria). *Elsewhere* : Malaya, Borneo, Sumatra and Philippines.

40. *Grammodes geometrica* (Fabricius)

1775. *Noctua geometrica* Fabricius, *Syst. Ent.*, : 599.

1991. *Grammodes geometrica*, Mandal and Maulik, *Fauna of Orissa*, Zool. Surv. India, 3 : 219.

Material examined : Umaria dist. BNP, Tala, 28.9.02 (1ex) Coll. R. K. Singh.

Wing expanse : 45 mm.

Distribution : Throughout India including Madhya Pradesh (Seoni, Mandla, Umaria), Orissa, West Bengal, Sikkim, Assam, Uttar Pradesh, Maharashtra, Andman & Nicobar Islands, Punjab, Karnataka and Tamil Nadu. *Elsewhere* : Bangladesh, Southern Myanmar, Sri Lanka, Singapore, Java, Pulo Lant and Taiwan.

41. *Helicoverpa armigera* (Hubner)

1804. *Noctua armigera* Hubner, *Samml. Eur. Schmett. Noct.*, ii : 180.

1896. *Heliothis armigera*, Hampson, *Fauna Brit. India*, Moths, 2 : 174-175.

1989. *Helicoverpa armigera*, Holloway, *The Moths of Borneo*, *Malayan Nature Journal*, 42(2&3) : 75.

Material examined : Umaria dist. BNP, Tala, 26.9.02 (3ex) Coll. R. K. Singh.

Wing expanse : 31-41 mm.

Distribution : Throughout India including Madhya Pradesh (Jabalpur, Shivpuri and Umaria). *Elsewhere* : Universally distributed.

42. *Helicoverpa assulta* Guen'ee

1852. *Heliothis assulta* Guen'ee, *Hist. Nat. Insectes, Spec. gen. lipid*, 6 : 178.

1989. *Helicoverpa assulta*, Holloway, *The Malayan Nature Journal*, *Malayan Nature Society*, Malaysia, 42 (2&3) : 75.

Material examined : Umaria, BNP, Tala, 26.9.02 (1ex) Coll. R. K. Singh.

Wing expanse : 22 mm.

Distribution : Throughout India including Madhya Pradesh (Chhindwara, Umaria and Mandla).
Elsewhere : Old World tropics.

43. *Ophiusa honesta* (Hubner)

1806. *Thyas honesta* Hubner, *Samml. Exot. Schmett.* II Index, : 4.

1888. *Thyas honesta*, Cotes & Swinhoe, *Cat. Moths of India*, : 398.

1894. *Ophiusa honesta*, Hampson, *Fauna Brit. India*, Moths, 2 : 504.

Material examined : Umaria, BNP, Tala, 24.9.2002 (1ex.), Gate of BNP, 22.9.2002 (1ex.), Coll. M. L. Koshta.

Wing expanse : 98 mm.

Distribution : Throughout India including Madhya Pradesh (Umaria) and Chhattisgarh.
Elsewhere : Sri Lanka.

44. *Ophiusa joviana* (Cramer)

1782. *Phalaena joviana* Cramer, *Pap. Exot.* iv, : 399.

1888. *Ophiusa joviana*, Cotes & Swinhoe, *Cat. Moths of India*, : 410.

1894. *Ophiusa joviana*, Hampson, *Fauna Brit. India*, Moths, 2 : 499.

Material examined : Umaria, Tala, BNP, 21.9.2002 (1ex.), Coll. M. L. Koshta.

Wing expanse : 54 mm.

Distribution : Throughout India including Madhya Pradesh (Indore, Chhindwara and Umaria)
Elsewhere : Sri Lanka, Myanmar and Java.

45. *Ophiusa triphaenoides* Walker

1858. *Ophiusa triphaenoides* Walker, *Cat. Lep. Het. Brit. Mus.*, xiv : 1358.

1888. *Minucia triphaenoides*, Cotes & Swinhoe, *Cat. Moths of India*, : 400.

1894. *Ophiusa triphaenoides*, Hampson, *Fauna Brit. India*, Moths, 2 : 505.

Material examined : Umaria, BNP, Tala, 30.9.2002 (1ex.), Coll. R.K. Singh.

Wing expanse : 60 mm.

Distribution : Throughout India including Madhya Pradesh (Indore and Umaria). *Elsewhere* : Taiwan.

46. *Spirama retorta* Cramer

1779-83. *Spirama retorta* Cramer, *Pap. Exot.*, 2 : 116.

1894. *Spirama retorta*, Hampson, *Fauna Brit. India*, Moths, 2 : 553.

Material examined : Umaria, BNP, Tala, 29.9.02 (1ex), Coll. R. K. Singh.

Wing expanse : 66 mm.

Distribution : Throughout India including Madhya Pradesh (Seoni and Umaria). *Elsewhere* : Sri Lanka, Myanmar, China, Japan, and Java.

47. *Spodoptera litura* Fabricius

1775. *Noctua litura* Fabricius, *Syst. Ent.*, : 601.

1991. *Prodenia litura*, Mandal and Maulik, *Fauna of Orissa, Zool. Surv. India*, **3** : 212.

1989. *Spodoptera litura*, Holloway, *The Malayan Nature journal, Malayan Nature Society, Malaysia*, **42** (2&3) : 136.

Material examined : Umaria, BNP, Tala, 21.9.2002 (4ex.), Coll. M. L. Koshta.

Wing expanse : 36-40 mm.

Distribution-Throughout India including Madhya Pradesh (Hoshangabad, Umaria), West Bengal, Sikkim, Orissa, Tripura, Himachal Pradesh, Uttar Pradesh, Punjab, Maharashtra, Karnataka, Tamil Nadu and Kerala. *Elsewhere* : Nepal, Southern Myanmar, Sri Lanka, Singapore, Borneo Java and Taiwan of oriental and also Australo-Papuan, Ethiopian, Palaearctic and Hawaiian Regions.

48. *Trigonodes hyppasia* (Cramer)

1775. *Phalaena (Noctua) hyppasia*, Cramer, *Pap. Exot.*, **3** : 250.

1888. *Trigonodes hyppasia*, Cotes & Swinhoe, *Cat. Moths of India*, : 413.

1894. *Trigonodes hyppasia*, Hampson, *Fauna Brit. India, Moths*, **2** : 527.

Material examined : Umaria, BNP, Tala, 19.9.2002, (5ex.), Coll. M. L. Koshta.

Wing expanse : 40-46 mm.

Distribution : Throughout India including Madhya Pradesh (Seoni and Umaria). *Elsewhere* : Africa, Mauritius, Madagascar, China, Taiwan, Sri Lanka, Myanmar, Java and Australasia.

SUMMARY

The paper deals with systematic account of 48 species of moths belonging to 42 genera and 10 families from Bandhavgarh National Park. Of these, 2 species (*Diaphania bivitalis* (Guen'ee) *Ophiusa honesta* (Hubner)) are reported for the first time from Madhya Pradesh.

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LIST OF MOTHS OF BANDHAVGARH NATIONAL PARK, UMARIA (M. P.)

S.N.	Scientific Name	S.N.	Scientific Name
	Order LEPIDOPTERA Suborder HETEROCERA I. Family SPHINGIDAE		
1.	<i>Clanis sp.</i>	25.	<i>Maruca testulalis</i> (Geyer)
2.	<i>Hippotion boerhaviae</i> (Fabricius)	26.	<i>Nymphula fluctuosalis</i> Zeller
3.	<i>Marumba dyras dyras</i> (Walker)	27.	<i>Sameodes cancellalis</i> Zeller
4.	<i>Nephele didyma</i> (Fabricius)	28.	<i>Synclera traducalis</i> (Zeller)
5.	<i>Oxyamabalyx sp.</i>	29.	<i>Tyspanodes linealis</i> Moore
6.	<i>Psilogamma menephron menephron</i> (Cramer)		VII. Family LASIOCAMPIDAE
7.	<i>Rhyncholaba acteus</i> (Cramer)	30.	<i>Estigena pardalis</i> Walker
8.	<i>Theretra alecto alecto</i> (Linnaeus)	31.	<i>Lebeda Sp.</i>
9.	<i>Theretra boisduvali</i> (Bugnion)		VIII. Family ARCTIIDAE
10.	<i>Theretra oldenlandiae oldenlandiae</i> (Fabricius)	32.	<i>Cretonotus gangis</i> (Linnaeus)
	II. Family GEOMETRIDAE	33.	<i>Cretonotus lactineus</i> Cramer
11.	<i>Antitrygodes cunceilinea</i> (Walker)	34.	<i>Olepa ricini</i> (Fabricius)
12.	<i>Godonela translineata</i> Walker		IX. Family HYPsiIDAE
13.	<i>Hyposidra talaca</i> (Walker)	35.	<i>Asota caricae</i> (Fabricius)
	III. Family NOTODONTIDAE		
14.	<i>Antheua servula</i> Drury		X. Family NOCTUIDAE
15.	<i>Cerura liturata</i> Walker	36.	<i>Cetola dentata</i> Walker
16.	<i>Phalera raya</i> Moore	37.	<i>Chrysodeixis eriosoma</i> (Doubleday)
17.	<i>Spatalia argentifera</i> (Walker)	38.	<i>Episparis varialis</i> (Walker)
	IV. Family URANIIDAE	39.	<i>Ercheia multilinea</i> Swinhoe
18.	<i>Micronia aculeata</i> Guen'ee	40.	<i>Grammodes geometrica</i> (Fabricius)
	V. Family SATURNIIDAE	41.	<i>Helicoverpa armigera</i> (Hubner)
19.	<i>Actias selene</i> (Hubner)	42.	<i>Helicoverpa assulta</i> Guen'ee
	VI. Family PYRALIDAE	43.	<i>Ophiusa triphaenoides</i> Walker
20.	<i>Cirrhochrista brizoalis</i> (Walker)	44.	<i>Ophiusa honesta</i> (Hubner)
21.	<i>Cnaphalocrocis medinalis</i> (Guen'ee)	45.	<i>Ophiusa joviana</i> (Cramer)
22.	<i>Diaphania bivitalis</i> (Guen'ee)	46.	<i>Spirama retorta</i> Cramer
23.	<i>Euclasta defamatalis</i> Walker	47.	<i>Spodoptera litura</i> (Fabricius)
24.	<i>Hymenia recurvalis</i> (Fabricius)	48.	<i>Trigonodes hyppasia</i> (Cramer)