

## LIST OF LOWER DITRYSIA EXCEPT APODITRYSIAN MOTHS FAUNA (MICROLEPIDOPTERA) FROM NORTH INDIA

P. C. PATHANIA<sup>1</sup>, R. SOOD<sup>2</sup> and H. S. ROSE<sup>3</sup>

<sup>1</sup>Zoological Survey of India, M-Block, New Alipore, Kolkata-700 053 (West Bengal);

<sup>2</sup>GNGC, Model Town, Ludhiana-141 002 (Punjab); and

<sup>3</sup>Department of Zoology and Environmental Sciences, Punjabi University, Patiala-147 002 (Punjab).

E-mail: pathaniapc@yahoo.co.in

### Introduction

In a new evolutionary classification, a total of 1,552,319 species belonging to 40 phyla under kingdom Animalia have been described. Among these, phylum Arthropoda is reported by 1,242,040 species of about 80% of the total. Lepidoptera (moths, butterflies and skippers) is one of the most dominant group and is third largest order of insects after Coleoptera and Hymenoptera. They have much economic importance for association with various host plants in climatically diverse areas. As many as 1,58,570 species of Lepidoptera are known from the world (Zhang, 2013), of which 1,38,656 species are moths and the remaining butterflies (Zhang, 2011). 15000 species belonging to 84 families are represented in India, out of which 13,359 species belonging to 79 families of moths (88%) and remaining butterflies (12%) (Chandra, 2011).

The group Microlepidoptera is an artificial division of order Lepidoptera containing small primitive moths. The bio-systematic studies on Indian Microlepidoptera have received little attention because of their small size, poor flight capacity and difficulty in study. The relevant literature shows that the diversity of the Micromoths is represented by a total of 45735 species belonging to 4626 genera of 73 families under 19 superfamilies of the Microlepidoptera on world basis (Nieukerken et al., 2011). Eight Superfamilies namely Gelechioidea, Tortricioidea, Tineoidea, Zygaenoidea, Cossioidea, Gracillarioidea, Yponomeutoidea and Pterophoroidea are more represented, while the 11 Superfamilies i.e., Simaethistoidea, Alucitoidea, Carposinoidea, Schreckensteinoidea, Epermenioidea, Urodoidea, Immoidea, Choreutoidea, Galacticoidea and two unassigned superfamilies are less represented on global basis (Hampson, 1892; Meyrick, 1912-1936).

### Observations

In the present study, survey-cum-collection tours were undertaken in the states of Jammu & Kashmir, Himachal Pradesh, Uttarakhand and Punjab, and collected 754 specimens of the micromoths. The collected specimens were sorted

out and identified as 86 species belonging to 10 families i.e., Gelechioidea (22), Lecithoceridae (22), Oecophoridae (13), Ethmidae (5), Cosmopterigidae (5), Scythridae (4) of Gelechioidea; Tineidae (9), Eriocottidae (3) of Tineoidea; Yponomeutidae (2) and Plutellidae (1) of Yponomeutoidea, have been identified.

The list of collected species has been given below.

Order : LEPIDOPTERA

Superfamily : GELECHIOIDEA

Family : GELECHIIDAE

Subfamily: Gelechiinae

Genus: *Stegasta* Meyrick

1. *Stegasta omelkoi* Rose & Pathania
2. *S. comissata* Meyrick

Genus: *Anarsia* Zeller

3. *Anarsia tegumentus* Rose & Pathania
4. *A. patulella* (Walker)
5. *A. valvata* Rose & Pathania
6. *A. renukaensis* Rose & Pathania
7. *A. didymopa* Meyrick
8. *A. parkae* Rose & Pathania
9. *A. tanyharensis* Rose & Pathania
10. *A. triglypta* Meyrick
11. *A. veruta* Meyrick
12. *A. reciproca* Meyrick

Genus: *Hypatima* Hübner

13. *Hypatima tephroptila* (Meyrick) comb. nov
14. *H. vinculata* Pathania & Rose
15. *H. spathota* (Meyrick)

Subfamily : Dichomeridinae

Genus: *Hypelictis* Meyrick

16. *Hypelictis acrochlora* Meyrick

Genus: *Dichomeris* Hübner

17. *Dichomeris sicaellus* Pathania & Rose
18. *D. acuminata* (Staudinger)
19. *D. rasilella* (Herrich-Schäffer)

Genus: *Helcystogramma* Zeller

20. *Helcystogramma hibisci* (Stainton)
21. *H. clarkei* Rose & Pathania
22. *H. uedai* Rose & Pathania

Family: LECTHOCERIDAE

Subfamily: Lecithocerinae

Genus: *Lecithocera* Herrich-Schäffer

23. *Lecithocera affusa* Meyrick
24. *L. gozmanyi* Pathania & Rose
25. *L. aulias* Meyrick
26. *L. semirupta* Meyrick
27. *L. ianthodes* Meyrick
28. *L. immobilis* Meyrick
29. *L. syntropha* Meyrick

30. *L. choritis* Meyrick  
 31. *L. metacausta* Meyrick  
 Subfamily : Torodorinae  
**Genus: Hygroplasta** Meyrick  
 32. *Hygroplasta spoliatella* (Walker)  
 33. *H. chunshengi* Pathania & Rose  
 34. *H. lygaea* (Meyrick)  
**Genus: Philoptila** Meyrick  
 35. *Philoptila cornunata* Rose & Pathania  
**Genus: Torodora** Meyrick  
 36. *Torodora parafusoptera* Rose & Pathania  
 37. *T. pubesensovalvata* Rose & Pathania  
 38. *T. ponomarenkoae* Rose & Pathania  
 39. *T. nyctiphron* (Meyrick) comb. nov.  
 40. *T. fuscoptera* Rose & Pathania  
 41. *T. parasema* (Meyrick) comb. nov.  
 42. *T. fortis* (Meyrick) comb. nov.  
 43. *T. deltopila* (Meyrick) comb. nov.  
 44. *T. neodeltopila* Rose & Pathania  
 Family: OECOPHORIDAE  
 Subfamily: Autostichinae  
**Genus: Apethistis** Meyrick  
 45. *Apethistis insulsa* (Meyrick)  
 46. *A. metoeca* Meyrick  
 Subfamily: Xyloryctinae  
**Genus: Cophomantella** Fletcher  
 47. *Cophomantella pumicata* (Meyrick) comb. nov.  
 48. *C. juxticata* Rose & Pathania  
 49. *C. lysinopa* (Meyrick) comb. nov.  
 50. *C. myadelpa* (Meyrick) comb. nov.  
 Subfamily: Depressariinae  
**Genus: Psorostichna** Lower  
 51. *Psorostichna zizyphi* (Stainton)  
 Subfamily : Stathmopodinae  
**Genus: Stathmopoda** Herrich-Schäffer  
 52. *Stathmopoda auriferella* (Walker)  
 53. *S. balanarcha* Meyrick  
 Subfamily : Oecophorinae  
**Genus: Tonica** Walker  
 54. *Tonica niviferana* (Walker)  
 55. *T. zizyphi* (Stainton)  
**Genus: Periacma** Meyrick  
 56. *Periacma circumclusa* Meyrick  
 57. *P. continuata* Meyrick  
 Family: ETHMIIDAE  
**Genus: Ethmia** Hübner  
 58. *Ethmia nauniensis* Pathania & Rose  
 59. *E. praeclara* Meyrick  
 60. *E. pagiopa* Meyrick  
 61. *E. acontias* Meyrick  
 62. *E. assamensis* (Meyrick)  
 Family: COSMOPTERIGIDAE  
**Genus: Cosmopterix** Hübner  
 63. *Cosmopterix hieraspis* Meyrick  
 64. *C. ancalodes* Meyrick  
**Genus: Pyroderces** Herrich-Schäffer  
 65. *Pyroderces pilodelta* Meyrick  
**Genus: Linnaecia** Stainton  
 66. *Linnaecia scaeosema* Meyrick  
**Genus: Dorodoca** Meyrick  
 67. *Dorodoca chrysomochla* Meyrick  
 Family: SCYTHRIDIDAE  
**Genus: Eretmocera** Zeller  
 68. *Eretmocera impectella* (Walker)  
 69. *E. haridwarensis* Pathania & Rose  
 70. *E. landryi* Pathania & Rose  
**Genus: Scythris** Hübner  
 71. *Scythris spumifera* Meyrick  
 Superfamily : TINEOIDEA  
 Family: TINEIDAE  
 Subfamily : Perissomasticinae  
**Genus: Edosa** Walker  
 72. *Edosa glossoptera* Rose & Pathania  
 73. *E. opsigona* (Meyrick)  
 74. *E. neoopsigona* Rose & Pathania  
 75. *E. paraglossoptera* Rose & Pathania  
 76. *E. sattleri* Rose & Pathania  
 Subfamily : Hapsiferinae  
**Genus: Cimitra** Walker  
 77. *Cimitra seclusella* Walker  
 Subfamily : Tineinae  
**Genus: Monopis** Hübner  
 78. *Monopis monachella* (Hübner)  
 79. *M. longella* (Walker)  
 Subfamily : Scardiinae  
**Genus: Morophaga** Herrich-Schäffer  
 80. *Morophaga cremnarcha* (Meyrick)  
 Family: ERIOCOTTIDAE  
**Genus: Compsoctena** Zeller  
 81. *Compsoctena dehradunensis* Pathania & Rose  
 82. *C. robinsoni* Pathania & Rose  
 83. *C. himachalensis* Pathania & Rose  
 Superfamily: YPONOMEUTOIDEA  
 Family: YPONOMEUTIDAE  
**Genus: Yponomeuta** Latreille  
 84. *Yponomeuta sacculata* Pathania & Rose  
 85. *Y. uttaranchalensis* Pathania & Rose  
 Family: PLUTELLIDAE  
**Genus: Plutella** Schrank  
 86. *Plutella xylostella* Linnaeus

**Acknowledgements:** The authors are very grateful to Dr. V.V. Ramamurthy, Retd. Principal Scientist and Incharge, National Pusa Insect Collections, for providing permission to consult the reference collection and needed research papers.

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