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## Inventory of subfamily Pyraustinae (Crambidae: Lepidoptera) from Sikkim

**Jagbir Singh Kirti, Navneet Singh and Harsimran Singh**

### Abstract

Inventory of moths of subfamily Pyraustinae (Crambidae) from state of Sikkim is presented. A total of 12 localities were surveyed in the year 2013 and 2014. As many as 70 species referable to 48 genera were collected. 35 new records for the state are documented. The list of the species along with first reference, material examined with locality and male/female is given in the manuscript.

**Keywords:** Inventory, Pyraustinae, Crambidae, lepidoptera, Sikkim, Eastern Himalayas

### Introduction

Insects are the most diverse and wide spread of all known organisms. There are as many as 1,070,781 species of insects comprising 80% of all known arthropod species. Class Insecta with more than one million described species represents 66% or two thirds of all known and described animal species [29]. Order Lepidoptera (moths and butterflies) is third most diverse order in class Insecta. There are a total of 15,578 genera divided into 1, 57, 424 species [25, 26]. Moths and butterflies are very rich in numbers such that new descriptions and updates on their synonymy exceed more 800 species per year [25]. There are 15,576 described species under the superfamily Pyraloidea. Crambidae is one of the most important family of this group. As many as 9655 species referable to 1020 genera are known in family Crambidae [27]. The subfamily Pyraustinae (sensu lato) is numerically not only the largest subfamily of moths in family Crambidae but also in superfamily Pyraloidea. Moths of this sub-family are of immense economic as well ecological importance as they are associated with agricultural, ornamental and forest plantation.

In India there are more than 60,000 insect species [1] and about 15,000 Lepidopterous species [1], approximately harboring 10% of global Lepidopterous fauna. First ever record of subfamily Pyraustinae (then placed under family Pyralidae) from Sikkim was published by Snellen and Elwes [28]. In this publication authors gave a record of 253 species belonging to family Pyralidae with more 150 of them belonging to subfamily Pyraustinae. First consolidated systematic work from Indian sub-continent on subfamily Pyraustinae (under family Pyralidae) is by Hampson [5]. Hampson in the same and subsequent publications [5-24] gave a record of 441 species referable to 91 genera from India, with more or less than half the species from state of Sikkim. Chandra [1] mentioned 303 species belonging to 116 genera for superfamily Pyraloidea (Pyralidae and Crambidae together) from Sikkim. This manuscript presents a record of 70 species referable to 48 genera with 35 new records from the state of Sikkim.

### Area of Study

State of Sikkim is nested in Eastern Himalayas sub region of Oriental region, Eastern Himalayas comprise entire state of Sikkim along with Bhutan covering entire Arunachal Pradesh and some parts of Nagaland. Sikkim has one of highest percentage of forest cover as compared to any other state of India [2]. According to Forest Survey of India [2] forest cover of Sikkim can be broadly divided into 16 major types of forests constituting eight major types of vegetation and foliage where majority of its biodiversity occurs. Intensive and extensive collection cum survey tours were conducted to the state of Sikkim. Tours were conducted in year 2013 and 2014 in pre-monsoon (April-May) and post-monsoon (September-October) period of the year. The localities covered along with lat long data and altitude is given in Table 1.

**Table 1:** List of localities where surveys were conducted with altitude.

1	Chatten	27°29'N 88°36' E	2700 m amsl
2	Chungthang	27°36'N 88°38' E	1650 m amsl
3	Deorali	27°19'N 88°36' E	1800 m amsl
4	Dodak	27°10'N 88°10' E	1750 m amsl
5	Dzangu	27°30'N 88°26' E	860 m amsl
6	Gangtok	27°20'N 88°36' E	2000 m amsl
7	Golitar	27°23'N 88°39' E	2100 m amsl
8	Lachung	27°41'N 88°44' E	2700 m amsl
9	Mangan	27°29'N 88°32' E	1100 m amsl
10	Meli	27°05'N 88°27' E	265 m amsl
11	Ribdi	27°10'N 88°05' E	1900 m amsl
12	Yuksom	27°22'N 88°13' E	1800 m amsl

### Material and Methods

The moths were collected with help of both vertical sheets and light trap fitted both in plains and hilly areas during night time<sup>[3]</sup>. The collected moths were killed with the help of ethyl acetate vapours. The complete pinning and stretching of the collected specimens was done in the field. Dried specimens were shifted to fumigated insect boxes with label carrying pertinent information about locality, date of collection and altitude. The identification of collected specimens was done with help of relevant literature<sup>[4-24]</sup>.

### Results and Discussion

A total of as many as 70 species belonging to 48 genera were found during the surveys. The list of the species along with original name, first reference and material examined with locality along male/female is given. Remarks for the status of species have also been given. Previous distribution status of the species is followed as according to Hampson (1896)<sup>[5]</sup>. In this study planned systematic surveys were conducted and distribution of species has been updated.

#### *Antigastra catalaunalis* (Duponchel, 1833)

*Botys catalaunalis* Duponchel, 1833 *Hist. Nat. Lépid. Pap.* France, Paris 8(2):5-402.

Material examined- Gangtok, 6.ix.13, 2♂♂

Distribution- Old World tropics.

Remarks- First confirmed record from Sikkim.

#### *Argio Glypta eurytusalis* (Walker, 1859)

*Glyphodes eurytusalis* Walker, 1859 *List Spec Lepid Ins Coll of Brit Mus*, London 17:503.

Material examined-Dodak, 25.iv.14- 1♂.

Distribution- Khasi Hills, Nilgiri Hills, Sri Lanka, Borneo, Loyalty Islands

Remarks- First record from Sikkim.

#### *Botyodes asialis* Guenée, 1854

*Botyodes asialis* Guenée, 1854 *Deltoïdes et Pyralites*. In: Boisduval, *Hist. Nat. des Insectes. Species Général des Lépidoptères*: 321.

Material examined- Golitar, 8.ix.13- 2♂♂, Mangan, 24.iv.13- 1♂, 1♀.

Distribution- Baluchistan, India, Sri Lanka, Burma, Borneo

Remarks – Type species of the genus *Botyodes* Guenée, 1854.

#### *Botyodes caldusalis* (Walker, 1859)

*Botys caldusalis* Walker, 1859 *List Spec Lepid. Ins. Coll. of Brit. Mus.*, London 17:650.

Material examined- Mangan, 10.ix.13 - 1♂, 1♀

Distribution- Sikkim, Assam, Burma.

#### *Botyodes crocopteralis* Hampson, 1899

*Botyodes crocopteralis* Hampson, 1899 *Rev. of Moths Subfam Pyraustinae, Pyralidae*: 710.

Material examined- Golitar, Sikkim: Golitar, 7.ix.13- 1♀, 8.ix.13- 1♂

Distribution- Sikkim.

#### *Botyodes principalis* Leech, 1889

*Botyodes principalis* Leech, 1889 *The Entomologist, London* 22(310):62-71.

Material examined- Mangan, 24.iv.14- 1♂

Distribution- Japan, Khasi Hills.

Remarks- First record for Sikkim.

#### *Ceratarcha umbrosa* Swinhoe, 1894

*Ceratarcha umbrosa* Swinhoe, 1894 *Ann. and Mag. of Nat. His, Zoo, Bot. and Geo*, London (6)14:197-210.

Material examined- Yuksom 16.ix.13- 1♂.

Distribution- Sikkim, Khasi Hills, Nagaland.

#### *Charitoprepes lubricosa* Warren, 1896

*Charitoprepes lubricosa* Warren, 1896 *Ann. and Mag. of Nat. His., Zoo. Bot. and Geo.*, London (6)16:136.

Material examined- Chungthang, 11.iv.13- 3♂♂

Distribution- Khasi Hills.

Remarks- First record for Sikkim.

#### *Cydalima laticostalis* (Guenée, 1854)

*Margarodes laticostalis* Guenée, 1854 *Deltoïdes et Pyralites*. In: Boisduval, *Hist. Nat. des Insectes. Species Général des Lépidoptères*: 303.

Material examined- Deorali, 18.x.14- 1♂, Gangtok, 5.x.14- 2♂♂, 2♀♀.

Distribution- India, Sri Lanka, Burma, Bay Islands, Sunda Islands.

#### *Conogethes evaxalis* (Walker, 1859)

*Botys evaxalis* Walker, 1859 *List Spec. Lepid. Ins. Coll. of Brit. Mus.*, London 17:995.

Material examined- Dzangu, 29.iv.14- 2♂♂.

Distribution- Bhutan, Khasis, Ceylon, Sumatra.

Remarks- First record for Sikkim.

#### *Conogethes punctiferalis* (Guenée, 1854)

*Astura punctiferalis* Guenée, 1854 *Deltoïdes et Pyralites*. In: Boisduval, *Hist. Nat. des Insectes. Species Général des Lépidoptères*: 314.

Material examined- Golitar, 8.ix.13- 2♂♂.

Distribution- Oriental and Australian region.

#### *Daulia afralis* Walker, 1859

*Daulia afralis* Walker, 1859 *List Spec. Lepid. Ins. Coll. of Brit. Mus.*, London 19:975.

Material examined- Chungthang, 11.iv.13- 3♂♂, 2♀♀.

Distribution- Bhutan, Nilgiris, Burma, Borneo

Remarks- First record for Sikkim.

#### *Dysallacta negatalis* (Walker, 1859)

*Phalangiodes negatalis* Walker, 1859 *Spec. Lepid. Ins. Coll. of Brit. Mus.*, London 18:468.

Material examined- Deorali, 20.iv.14-2♀♀.

Distribution- India, Sri Lanka, Burma and Australia.

#### *Endocrossis flavibasalis* (Moore, 1867)

*Botys flavibasalis* Moore, 1867 *Proc. Gen. Meet. Sci. Bus. of*

*Zoo. Soc. of London*: 96.

Material examined- Mangan, 24.iv.14- 2♂♂.

Distribution- Sikkim, Assam, Bengal, Burma, Sumatra, New Guinea.

Remarks- Type species of the genus *Endocrossis* Meyrick.

***Filodes fulvidorsalis*** (Geyer, 1832)

*Pinacia fulvidorsalis* Geyer, 1832 *Zuträge zur Sammlung*, 1(1):15.

Material examined- Golitar, 8.ix.13- 4♂♂.

Distribution- India, Sri Lanka, Burma, Bay Islands, Sunda Islands.

Remarks – Type species of the genus *Filodes* Guenée.

***Glyphodes bivitalis*** Guenée, 1854

*Glyphodes bivitalis* Guenée, 1854 *Deltoïdes et Pyralites*. In: Boisduval, *Hist. Nat. des Insectes. Species Général des Lépidoptères*: 293.

Material examined- Golitar, 7.ix.13- 3♂♂.

Distribution- Sikkim, Formosa, Assam, West and South India, Ceylon, Burma, Bay Islands, Borneo.

***Glyphodes caesalis*** Walker, 1859

*Glyphodes caesalis* Walker, 1859 *Spec. Lepid. Ins. Coll. of Brit. Mus.*, London 18:499.

Material examined- Golitar, 22.iv.14- 2♂♂, 2♀♀.

Distribution- Sikkim, Sri Lanka, Burma, Andaman Islands.

***Glyphodes canthusalis*** Walker, 1859

*Glyphodes canthusalis* Walker, 1859 *Spec. Lepid. Ins. Coll. of Brit. Mus.*, London 19: 505.

Material examined- Deorali, 20.iv.14-1♀.

Distribution- Sikkim, Formosa, Assam, West and South India, Ceylon, Burma, Bay Islands, Borneo.

***Glyphodes stolalis*** Guenée, 1854

*Glyphodes stolalis* Guenée, 1854 *Deltoïdes et Pyralites*. In: Boisduval, *Hist. Nat. des Insectes. Species Général des Lépidoptères*: 293.

Material examined- Deorali, 20.iv.14-2♀♀, 2♂♂.

Distribution- Nepal, Sikkim, Assam, Sri Lanka, Pulo Laut, Borneo, Australia.

Remarks- Type species of the genus *Glyphodes* Guenée, 1854.

***Heortia vitessoides*** (Moore, 1885)

*Tyspana vitessoides* Moore, 1885 *Proc. Gen. Meet. Sci. Bus. of Zoo. Soc. of London*: 256.

Material examined- Dodak 25.iv.14- 1♀.

Distribution- Hong Kong, Sikkim, Sibsagar (Assam).

***Herpetogramma rudis*** (Warren, 1892)

*Acharana rudis* Warren, 1892 *Ann. and Mag. of Nat. His., Zoo., Bot. and Geo.*, London (6)9:435.

Material examined- Gangtok 6.ix.13- 2♀♀

Distribution- Japan, China, India, Africa, Sri Lanka, Java.

***Herpetogramma phaeopteralis*** (Guenée, 1854)

*Botys phaeopteralis* Guenée, 1854 *Deltoïdes et Pyralites*. In: Boisduval, *Hist. Nat. des Insectes. Species Général des Lépidoptères*: 349.

Material examined- Golitar, 7.ix.13- 2♀♀, Golitar, 7.ix.13- 2♂♂

Distribution- Neotropical, Ethiopian, Oriental regions.

***Hyalobathra coenostolalis*** (Snellen, 1890)

*Botys coenostolalis* Snellen, 1890 *Trans. of the Ent. Soc.*, London: 582.

Material examined- Mangan, 24.iv.14- 2♂♂

Distribution- Sikkim, Khasi Hills, Nilgiris, Shan States.

***Maruca vitrata*** (Fabricius, 1787)

*Phalaena vitrata* Fabricius, 1787 *Christ. Gottl. Proft, Hafniae*: 215.

Material examined- Mangan, 24.iv.14- 2♂♂, Dzangu, 29.iv.14- 4♀♀, Mangan, 24.iv.14- 2♂♂, Gangtok, 5.x.14- 2♀♀

Distribution- Cosmopolitan.

***Meroctena tullalis*** (Walker, 1859)

*Botys tullalis* Walker, 1859 *Spec. Lepid. Ins. Coll. of Brit. Mus.*, London 18: 649.

Material examined- Golitar, 8.ix.13- 2♂♂

Distribution- Sikkim, Assam, Nilgiris, Ceylon, Burma, Pulo Laut, Java, Amboina.

***Nascia citrinalis*** Warren, 1892

*Nascia citrinalis* Warren, 1892 *Ann. and Mag. of Nat. His., Zoo., Bot. and Geo.*, London (6)9:302.

Material examined- Dodak, 25.iv.14- 2♂♂.

Distribution- Dharmshala.

Remarks- First record for Sikkim.

***Neadeloides cinerealis*** (Moore, 1867)

*Hoterodes cinerealis* Moore, 1867 *Proc. Gen. Meet. Sci. Bus. of Zoo. Soc. of London*: 94.

Material examined- Golitar, 19.ix.14- 1♂.

Distribution- Sikkim.

Remarks- Collected from type locality.

***Nevrina procopia*** (Stoll, 1781)

*Botys procopia* Stoll, 1781 *Papillons exotiques, des trois parties du monde*: 152.

Material examined- Gangtok, 6.ix.13- 2♂♂

Distribution- India, Ceylon, Burma, Java, Ambionia.

***Nosophora semitritalis*** (Lederer, 1863)

*Analthes semitritalis* Lederer, 1863 *Wiener Entomologische Monatschrift* 7:407.

Material examined- Yuksom 16.ix.13- 2♀♀.

Distribution-Sikkim, Pulo Laut, Ambionia.

***Notarcha derogata*** (Fabricius, 1775)

*Phalaena derogata* Fabricius, 1775 *Systema Entomologicae*: 641.

Material examined- Mangan, 24.iv.13-2♂♂.

Distribution- India, Africa, Australia.

***Omiodes decisalis*** (Walker, 1866)

*Botys decisalis* Walker, 1866 *Spec. Lepid. Ins. Coll. of Brit. Mus.*, London 34:1451.

Material examined- Golitar, 7.ix.13- 2♀♀

Distribution- Sierra Leone, Japan, Sikkim, Khasis, Nagas, Ceylon, Pegu, Shan States, Borneo, Java, Flores.

***Omiodes similis*** (Moore, 1885)

*Acharana similis* Moore, 1885 *Asiatic Society of Bengal*, 3: 286.

Material examined- Golitar, 7.ix.13- 2♀♀

Distribution- Sierra Leone, Japan, Sikkim, Khasis, Nagas, Ceylon, Pegu, Shan States, Borneo, Java, Flores.

***Omphisa anastomosalis*** (Guenée, 1854)

*Pinoea anastomosalis* Guenée, 1854 *Deltoïdes et Pyralites*. In: Boisduval, *Hist. Nat. des Insectes. Species Général des Lépidoptères*: 373-374.

Material examined- Golitar, 7.ix.13- ♀

Distribution- China, Sikkim, Khasis, Nilgiris, Ceylon, Burma, Andamans, Java, Duke of York Island.

***Pagyda salvalis*** Walker, 1859

*Pagyda salvalis* Walker, 1859 *Spec. Lepid. Ins. Coll. of Brit. Mus.*, London 17:487.

Material examined- Gangtok, 5.x.14- 2♀♀

Distribution- Japan, India, Sri Lanka, Burma, Borneo.

***Palpita unionalis*** (Hübner, 1796)

*Pyralis unionalis* Hübner, 1796 *Sammlung Europäischer Schmetterlinge*, 6:209.

Material examined- Gangtok, 5.x.14- 3♂♂.

Distribution- Europe, Africa, Madagascar, India, Sri Lanka, Australia.

***Parotis marginata*** (Hampson, 1893)

*Cenocnemis marginata* Hampson, 1893 *The Macrolepid. Heterocera of Ceylon*, 1893: 169.

Material examined- Dzangu, 29.iv.14- 1♂

Distribution- Sikkim, Cachar, Ganjam, Calcutta, Travancore, Ceylon, Nicobars, Solomons.

***Parotis pomonalis*** (Guenée, 1854)

*Margarodes pomonalis* Guenée, 1854 *Deltoïdes et Pyralites*. In: Boisduval, *Hist. Nat. des Insectes. Species Général des Lépidoptères*: 309.

Material examined- Dzangu, 29.iv.14- 2♂♂.

Distribution- China, Sikkim, Bombay Presidency, Ceylon, Sumbawa.

***Parotis psittacalis*** Hübner, 1831

*Parotis psittacalis* Hübner, 1831 *Sammlung Europäischer Schmetterlinge*, 1831:30.

Material examined- Golitar, 22.iv.14- 2♂♂

Distribution- India, Sri Lanka, Burma, Borneo, Sulawesi, Australia.

***Patania concatenalis*** (Walker, 1866)

*Botys concatenalis* Walker, 1866 *Spec. Lepid. Ins. Coll. of Brit. Mus.*, London 34:1408.

Material examined- Deorali, 19.iv.14- 2♂♂

Distribution- Sikkim, Darjeeling.

***Patania verecunda*** (Warren, 1896)

*Loxoscia verecunda* Warren, 1896 *Ann. and Mag. of Nat. His., Zoo., Bot. and Geo.*, London (6)16:167.

Material examined- Gangtok, 6.ix.13- 2♂♂.

Distribution- North West Himalayas, Sikkim, Khasi Hills, Nilgiris, Khasis; Sri Lanka.

***Pitama hermesalis*** (Walker, 1859)

*Botys hermesalis* Walker, 1859 *Spec. Lepid. Ins. Coll. of Brit. Mus.*, London 18:516.

Material examined- Golitar, 19.ix.14- 1♂.

Distribution- Sikkim, Khasi Hills, Borneo.

***Pleuroptya quadrimaculalis*** (Kollar and Redtenbacher, 1844)

*Pleuroptya quadrimaculalis* Kollar and Redtenbacher, 1844 *Hallbergersche Verlagshandlung*, Stuttgart. 4(2):492.

Material examined- Golitar, 19.ix.14- 1♂.

Distribution- Japan, North West Himalaya, Sikkim, Khasis, Borneo.

***Pleuroptya ruralis*** (Scopoli, 1763)

*Phalaena ruralis* Scopoli, 1763 *Entomologia Carniolica*, Vienna 1763:242.

Material examined- Deorali, 18.x.14- 2♂♂.

Distribution- India, Sri Lanka, Borneo, Burma, Java, Celebes.

***Poliobotys ablactalis*** (Walker, 1859)

*Botys ablactalis* Walker, 1859. *Lepid. Ins. Coll. of Brit. Mus.*, London 18:660.

Material examined- Mangan, 24.iv.14- 1♂, 1♀

Distribution- India (including Andaman Islands), Sri Lanka, Bhutan.

Remarks- Type species of the genus *Poliobotys* Shaffer & Munroe.

***Polythipta macralis*** Lederer, 1863

*Polythipta macralis* Lederer, 1863 *Wiener Entomologische Monatschrift* 7:389.

Material examined- Mangan, 24.iv.14- 2♂♂.

Distribution- Sikkim, Khasi Hills, Nilgiris, Sri Lanka, Tenasserim, Ambionia.

***Polythipta cerealis*** Lederer, 1863

*Polythipta cerealis* Lederer, 1863 *Wiener Entomologische Monatschrift* 7:389.

Material examined- Golitar, 7.ix.13- 2♀♀.

Distribution- North West and Eastern Himalayas, Khasi Hills.

Remarks- First confirmed record from Sikkim.

***Polythipta ossealis*** Lederer, 1863

*Polythipta ossealis* Lederer, 1863 *Wiener Entomologische Monatschrift* 7:389.

Material examined- Golitar, 22.iv.14- 1♂.

Distribution- Sikkim, Bhutan, Khasi Hills, Sumatra, Ambionia.

***Polythipta peragrata*** Moore, 1888

*Polythipta peragrata* Moore, 1888 *Proc. Gen. Meet. Sci. Bus. of Zoo. Soc. of London*: 216.

Material examined- Golitar, 22.iv.14- 2♂♂.

Distribution- Sikkim.

Remarks- Collected from type locality.

***Prorodes mimica*** Swinhoe, 1894

*Prorodes mimica* Swinhoe, 1894 *Ann. and Mag. of Nat. His., Zoo., Bot. and Geo.*, London (6)14(81):205.

Material examined- Gangtok, 6.ix.13- 1♂.

Distribution- Khasi Hills, Nagas, Tenasserim.

Remarks- First record for Sikkim.

***Pycnarmon alboflavalis*** (Moore, 1888)

*Conogethes alboflavalis* Moore, 1888 *Asiatic Society of Bengal*, 1888:220.

Material examined- Gangtok, 5.x.14- 2♂♂.

Distribution- Sikkim, Andaman Islands.

***Pycnarmon caberalis*** (Guenée, 1854)

*Phalaena caberalis* Guenée, 1854 *Deltoïdes et Pyralites*. In:

Boisduval, *Hist. Nat. des Insectes. Species Général des Lépidoptères*: 284.  
 Material examined- Gangtok, 6.ix.13- 2♂♂, Golitar, 19.ix.14- 1♂.  
 Distribution- China, Formosa, India, Sri Lanka, Burma, Borneo.

***Pygospila tyres*** (Cramer, 1780)  
*Phalaena tyres* Cramer, 1780 *Papillons exotiques, des trois parties du monde.*, 1780:124  
 Material examined- Golitar, 8.ix.13- 2♂♂, 2♀♀  
 Distribution- India, Sri Lanka, Burma, Java.  
 Remarks- Type species of the genus *Pygospila* Guenée, 1854.

***Pyrausta punctimarginalis*** Hampson, 1896  
*Pyrausta punctimarginalis* Hampson, 1896 *Fauna of British India, London*, 4:438.  
 Material examined- Mangan, 24.iv.14- 2♂♂, 1♀.  
 Distribution- Sikkim, Celebes.

***Rehimena phrynealis*** (Walker, 1859)  
*Botys phrynealis* Walker, 1859 *List Spec Lepid Ins Coll of Brit Mus*, London 17:630.  
 Material examined- Mangan, 24.iv.14- 2♂♂, Gangtok, 5.x.14- 2♀♀  
 Distribution- India, Sri Lanka, Burma, Borneo.

***Rhagoba octomaculalis*** (Moore, 1867)  
*Filodes octomaculalis* Moore, 1867 *Proc. Gen. Meet. Sci. Bus. of Zoo. Soc. of London*: 95.  
 Material examined- Golitar, 8.ix.13- 3♂♂, 2♀♀.  
 Distribution- Khasi Hills, Sikkim.  
 Remarks- Type locality very close to Sikkim i.e. Darjeeling.  
 Type species of the genus.

***Sameodes cancellalis*** (Zeller, 1852)  
*Botys cancellalis* Zeller, 1852 *Lepid. Microptera, Kungliga Svenska Vetén. Handlingar*, Uppsala & Stockholm 40(3):34.  
 Material examined- Golitar, 8.ix.13- 4♂♂, Mangan, 24.iv.13- 2♂♂; Chungthang, 11.iv.13- 3♂♂  
 Distribution- Africa, India, Sri Lanka, Burma.

***Sisyrophora pfeifferae*** (Lederer, 1863)  
*Sisyrophora pfeifferae* (Lederer, 1863) *Wiener Entomologische Monatschrift* 7:399.  
 Material examined- Gangtok, 6.ix.13- 2♂♂, 2♀♀, Golitar, 19.ix.14- 1♂.  
 Distribution- Sikkim, Khasi Hills, Karen Hills, Singapore, Sumatra.

***Spoladea recurvalis*** (Fabricius, 1775)  
*Phalaena recurvalis* Fabricius, 1775 *Systema entomologicae*, 1775: 664.  
 Material examined- Deorali, 20.iv.14-2♀♀, 2♂♂, Dodak, 25.iv.14- 2♂♂, 1♀Dzangu, 29.iv.14- 1♂, 2♀♀.  
 Distribution- Africa, Oriental region.

***Syllepte gastralis*** (Walker, 1866)  
*Glyphodes gastralis* Walker, 1866 *List Spec Lepid Ins Coll of Brit Mus., London*, 1356.  
 Material examined- Chungthang, 11.iv.13- 2♂♂.  
 Distribution- Dharmshala, Sikkim, Khasi Hills.

***Syllepte iopasalis*** (Walker, 1859)  
*Botys iopasalis* Walker, 1859 *List Spec Lepid Ins Coll of Brit*

*Mus., London*: 652.  
 Material examined- Dzangu, 29.iv.14- 1♂, 2♀♀.  
 Distribution- Formosa, Sikkim, Assam, Nilgiris, Andaman Islands, Ceylon, Burma.

***Syllepte iophanes*** (Meyrick, 1894)  
*Botys iophanes* Meyrick, 1894 *Trans.of the Ent. Soc., London*, 2:462.  
 Material examined- Mangan, 24.iv.13-2♂♂.  
 Distribution- Indonesia, India, Java.

***Syllepte sellalis*** (Guenée, 1854)  
*Botys sellalis* Guenée, 1854 *Deltoides et Pylalites*. In: Boisduval, *Hist. Nat. des Insectes. Species Général des Lépidoptères*: 330.  
 Material examined- Mangan, 24.iv.14- 2♂♂, Gangtok, 5.x.14- 2♀♀.  
 Distribution- Sikkim, Khasi Hills, Andaman Islands, Perak, Ternate, Burma.

***Synclera traducalis*** (Zeller, 1852)  
*Eudiotis traducalis* Zeller, 1852 *Lepid. Microptera, Kungliga Svenska Vetén. Handlingar*, Uppsala & Stockholm 40(3): 54.  
 Material examined- Mangan, 24.iv.14- 2♂♂, 1♀  
 Distribution- S. America, S. Africa, Aden, Syria, Palestine, India, Ceylon, and Burma.  
 Remarks- Type species of the genus *Synclera* Lederer.

***Tetridia vinacealis*** (Moore, 1877)  
*Botys vinacealis* Moore, 1877 *Proc. Gen. Meet. Sci. Bus. of Zoo. Soc. of London*: 619.  
 Material examined- Gangtok, 5.x.14- 3♂♂, 1♀.  
 Distribution- Sikkim, Khasis, Sibsagar, Sri Lanka, Burma, Borneo, Celebes.

***Tyspanodes flaviventer*** Warren, 1891  
*Tyspanodes flaviventer* Warren, 1891 *Ann. and Mag. of Nat. His., Zoo, Bot. and Geo*, London, 6(7):425.  
 Material examined- Golitar, 19.ix.14- 2♂♂, 1♀.  
 Distribution- Sikkim  
 Remarks- Collected from type locality.

***Tyspanodes linealis*** (Moore, 1867)  
*Propaches linealis* Moore, 1867 *Proc. Gen. Meet. Sci. Bus. of Zoo. Soc. of London*: 625.  
 Material examined- Golitar, 27.ix.14- 1♂.  
 Distribution- Dharmshala, Sikkim, Ceylon

***Tyspanodes nigrolinealis*** (Moore, 1867)  
*Filodes nigrolinealis* Moore, 1867 *Proc. Gen. Meet. Sci. Bus. Of Zoo. Soc. of London*: 95.  
 Material examined- Golitar, 19.ix.14- 2♂♂.  
 Distribution- Sikkim.  
 Remarks- Collected from type locality.

***Ulopeza idyalis*** (Walker, 1859)  
*Botys idyalis* Walker, 1859 *List Spec Lepid Ins Coll of Brit Mus., London*: 996.  
 Material examined- Chaten, 17.v.13- 2♀♀  
 Distribution- Sikkim, Khasi Hills, Nagaland, Bombay, Nilgiris, Sri Lanka, Pulo Laut, Sulawesi.

***Uncobotyodes patualis*** (Walker, 1866)  
*Botys patualis* Walker, 1866 *List Spec Lepid Ins Coll of Brit*

*Mus.*, London 34:1405.

Material examined- Golitar, 12.ix.14- 3♂♂, 1♀.

Distribution- Dharamshala, Sikkim, Khasis.

Remarks- Type species of the genus *Uncobotyodes* Kirti and Rose.

***Talanga sexpunctalis* (Moore, 1877)**

*Oligostoma sexpunctalis* Moore, 1877 *Proc. Gen. Meet. Sci. Bus. Of Zoo. Soc. of London*: 617.

Material examined- Yuksom 16.ix.13- 2♀♀, 2♂♂.

Distribution- India, Borneo, Celebes, New Britain, New Hebrides.

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