

An Inventory of Family Noctuidae (Noctuidae:Lepidoptera) from Himachal Pradesh

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Abstract

An inventory of family Noctuidae belonging to superfamily Noctuoidea has been prepared from Himachal Pradesh. As many as 2300 representatives of 105 species referable to 69 genera have been studied and 10 species have been recorded for the first time from this area.

Key words : *Lepidoptera, Agricultural pests, Himachal Pradesh, Inventory, moths.*

Introduction:

Lepidopteran species are characterized as being covered with pigmented scales all over the wings, having two large compound eyes and siphoning type of mouth parts with an elongated proboscis. Noctuidae is the largest family of order Lepidoptera which accounts for 24801 described species (Heppner 1991) and can be easily identified on the basis of wing venation of hind wing, where Sc+R₁ is separated from R₅ and is connected with discal cell at base. This group of moths is of immense economic importance as the caterpillars of many species are serious agricultural pests and attack variety of agricultural and forest plants.

During the recent survey cum collection tours, as many as 2300 adult moths belonging to 105 species and referable to 69 genera, viz. , have been studied and authentically identified following (Hampson, 1894, 1905) and by comparison of collections lying in the museums of Forest Research Institute, Dehradun and Indian Agriculture Research Institute, PUSA, New Delhi. Comparison has also been made with the types of Natural History Museum, London. The primary objective of the present communication is to an inventory with, authentic identification, first reference, type species, material examined, distribution and remarks, if any, of all included species.

Materials and Methods

The study was conducted during intensive and extensive survey cum collection tours in the far flung localities of Himachal Pradesh between July 2012 to November 2014 which yielded a collection of 2300 adult representatives of family Noctuidae. The entire materials were collected from light traps using a 40W ultraviolet light suspended on one side of a vertical white sheet (approximately 2.0m x 2.5m). Sometimes a portable light trap or petromax lamp (during failure of electricity) was also used. Various sampling sites in different localities of Himachal Pradesh were surveyed exclusively during this period. The adult representatives of different species were collected and killed with ethyl acetate vapours in insect killing jars of different sizes, depending upon the size of the specimen. In order to keep the scales intact on the body of the moths, they were removed from the bottles as soon as they were killed. Each of the killed specimens was pinned properly. This was preceded by spreading of both the wings on the insect stretching board, followed by their drying. Each specimen was labelled. The specimens were preserved in airtight boxes, having naphthalene balls as fumigants. Various morphological characters, such as head appendages, wing maculation, wing venation and genitalia, were examined to identify different species.

Result and Discussion:

In present study 105 species belonging to 69 genera have been collected. The list of all the identified species along with first reference, type species, material examined and old distribution are provided below. The work involved study and examination of various morphological characters such as antennae, legs, labial palpi and wing maculation. External male and female genitalia were also dissected in order to identify sibling species. The authentic identification was done by comparisons with the reference collections lying at Natural History Museum, London, Forest Research Institute, Dehradun and Indian Agriculture Research Institute, PUSA, New Delhi.

SUBFAMILY ACONTIINAE**GENUS ACONTIA OCHSENHEIMER**

Acontia Ochsenheimer, 1816, *Eur. Schmett*, **4**: 91.

Type species : *Noctua solaris* (Dennis & Schiffermüller).

***Acontia nitidula* (Fabricius)**

Fabricius, 1787, *Mant. Inst.*, **2**: 126

Old distribution: South Africa; Europe; China; Japan; throughout India and Sri Lanka.

Material Examined :

Kangra: Balakrupi, 8.vii.13, 1♂, 15.vii.12, 2♂♂.

SUBFAMILY ACRONICTINAE**GENUS ACRONICTA OCHSENHEIMER**

Acronycta Ochsenheimer, 1816, *Eur. Schmett*, **4**: 62.

Type species : *Acronicta leporina* Linnaeus.

***Acronicta denticulata* Moore**

Moore, 1881, *Proc. Zoo. Soc.*, **1881**: 414.

Old distribution : N.W. Himalayas; Sylhet; Sri Lanka; Java.

Material Examined :

Solan: Sadopul, 5.v.12, 3♂♂, 2♀♀; Gharkhal 3.v.13, 3♂♂;

Simla: Kharapathar, 21.vi.13, 2♀♀, Theog, 28.vi.12, 3♂♂.

***Acronicta maxima* (Moore)**

Moore, 1881, *Proc. Zoo. Soc.*, **1881**: 333.

Old distribution : N.W. Himalayas; Panjab; Rangoon.

Material Examined :

Chamba : Saho, 12.ix.13, 4♂♂; Pukhri, 14.ix.13, 2♀♀.

GENUS ATHETIS HÜBNER

Athetis Hübner, 1816 *Verz. bekannter Schmett*, **1816**: 209.

Type species : *Nactua dasychira* Hübner.

***Athetis bipuncta* Snellen**

Snellen, 1880, *Veth. Midden. Summatra. Lep.*, **45** cosmia.

Old distribution: Europe; India; Sri Lanka.

Material Examined :

Chamba: Pukhri, 15.ix.13, 4♂♂, 2♀♀.

GENUS AUCHMIS HÜBNER

Auchmis Hübner, 1816, *Verz. bekannter Schmett*, **1816**: 243.

Type species : *Auchmis polyodon* Clerck.

***Auchmis inextricata* (Moore)**

Moore, 1881, *Proc. Zoo. Soc.*, **1881**: 3421.

Old distribution: Amur; Japan; throughout India and Sri Lanka.

Material Examined :

Chamba: Saho, 13.ix.13, 2♂♂, 2♀♀; Pukhri 15.ix.13, 3♂♂, 3.ix.14, 2♂♂, 2♀♀.

SUBFAMILY CALPINAE**GENUS AEDIA HÜBNER**

Aedia Hübner, 1816, *Verz. bekannter Schmett*, **1816**: 260.

Type species : *Noctua leucomelas* Linnaeus.

***Aedia leucomelas* (Linnaeus)**Linnaeus, 1758, *Syst. Nat.*, **1**: 518.**Old distribution** :Tropical Asia; China; Japan; Australian regions.**Material Examined :**

Solon: Sairighat 23.ix.12, 2♂♂.

Kangra: Balakrupi, 8.xii.13, 2♂♂, 16.vii.12, 2♂♂.

Chamba : Saho, 13.ix.13, 2♂♂.

GENUS BAMRA MOORE*Bamra* Moore, 1882, *Lep. Atk.*, **1882**: 159**Type species** : *Agriopis discalis* Moore.***Bamra albicola* (Walker)**Walker, 1858, *Cat. Lep. Het.*, **14**: 1515.**Old distribution** : Sikkim; Assam; Sri Lanka.**Material Examined :**

Chamba: Pukhri, 14.ix.13, 1♂, 1♀.

Remarks : This species is new record from Himachal Pradesh.***Bamra mundata* (Walker)**Walker 1858, *Cat. Lep. Het.*, **15**: 1701.**Old distribution** : Assam; Sri Lanka; Sikkim.**Material Examined :**

Kangra : Balakrupi, 15.vii.13, 1♂, 1♀.

Remarks : This species is new record from Himachal Pradesh.**GENUS BOCULA GUENÉE***Bocula* Guenée, 1852, *Hist. Nat. Ins. Spec. Gen. Lepid.*, **7**: 295.**Type species** : *Bocula caradrinoides* Guenée.***Bocula megastimata* Hampson**Hampson, 1894, *Fauna Br. Ind. Moths*, **2**: 518.**Old distribution** :Java; India; Sri Lanka; Europe.**Material Examined :**

Kangra: Balakrupi, 31.vii.14, 1♀.

Solon: Gharkhal, 5.v.13, 2♂♂, 1♀.

***Bocula erota* (Swinhoe)**Swinhoe, 1901, *Amer. Mus. Nat. Hist.*, **7**: 496.**Old distribution** : Java; India; Sri Lanka; Europe.**Material Examined :**

Kangra: Balakrupi, 30.vii.14, 3♂♂, 2♀♀.

GENUS CALESIA GUENÉE*Calesia* Guenée, 1852, *Noct.*, **3**: 257.**Type species** : *Calesia dasyptera* Kollar.***Calesia dasyptera* (Kollar)**Kollar, 1844, *Hügel Kaschmir*, **4**: 476**Old distribution** :China; throughout India, Sri Lanka and Myanmar.**Material Examined :**

Shimla: Koti, 23.vi.13, 1♂, 8.vii.14, 2♂♂.

Solon: Gharkhal, 5.vii.12, 2♂♂.

GENUS CALYMNIOPS HAMPSON*Calymniops* Hampson, 1926, *Descr. Gen. Spec. Lepid. Phalaenae*, **1926**: 212.**Type species** : *Elydna trapezata* Moore.

***Calymniops trapezata* (Moore)**Moore, 1887, *Lep. Ceyl.*, **3**: 547.**Old distribution** : Sri Lanka.**Material Examined :**

Chamba :Saho, 12.ix.13, 1♀; Pukhri, 14.ix.13, 1♂.

Remarks : This species is new record from Himachal Pradesh.**GENUS CALYPTRA OCHSENHEIMER***Calyptera* Ochsenheimer, 1816, *Eur. Schmett.*, **4**: 78.**Type species** : *Phalaena thalictri* Borkhausen.***Calyptra ophideroides* (Guenée)**Guenée, 1852, *Noct.*, **2**: 374.**Old distribution** :N.W. Himalayas; Nepal; Singapore.**Material Examined :**

Chamba : Pukhri, 3.ix.14, 2♂♂; Khajjair, 3.x.12, 1♀.

Kangra : Dharmshala, 19.ix.12, 1♂.

GENUS CYMATOPHOROPSIS HAMPSON*Cymatophoropsis* Hampson, 1894, *Fauna Br. Ind. Moths*, **2**: 397.**Type species** : *Gluphusia sinuata* Moore.***Cymatophoropsis sinuata* (Moore)**Moore, 1879, *Proc. Zoo. Soc.*, **1879**: 412.**Old distribution** : Simla; Sikkim.**Material Examined :**

Kangra :Bharoli, 14.vii.12, 2♂♂, 2♀♀; Balakrupi, 7.vii.13, 2♀♀, 30.vii.14, 2♀♀.

GENUS DIERNA WALKERWalker, 1858, *List Specimens lepid. Insects Colln Br. Mus.*, **16**: 204.**Type species** : *Dierna acanthusalis* Walker.***Dierna strigata* Moore**Moore, 1882, *Proc. Zoo. Soc.*, **1882**: 80.**Old distribution** : Throughout India; Myanmar; Sri Lanka and Karachi.**Material Examined :**

Solan: Gharkhal 5.vii.12, 2♂♂.

GENUS FODINA GUENÉE*Fodina* Guenée, 1852, *Noct.*, **3**: 274.**Type species** : *Fodina oriolus* Guenée.***Fodina pallula* Guenée**Guenée, 1852, *Noct.*, **3**: 275.**Old distribution** : N.W. Himalayas; Assam; Kolkata; Sri Lanka.**Material Examined :**

Kangra :Bharoli, 14.vii.12, 2♂♂, 2♀♀; Balakrupi, 7.vii.13, 2♀♀, 30.vii.14, 2♀♀.

***Fodina stola* Guenée**Guenée, 1852, *Noct.*, **3**: 275**Old distribution** : N.W. Himalayas; Sikkim; Bhutan; Sri Lanka; Moulmein.**Material Examined :**

Kangra : Balakrupi, 8.vii.13, 2♀♀; 15.vii.12, 1♂, 1♀.

GENUS HYPOCALA GUENÉE*Hypocala* Guenée, 1852, *Noct.*, **3**: 73.**Type Species** : *Hypocala deflorata* Fabricius.

***Hypocala sabsatura* Guenée**Guenée, 1852, *Noct.*, **3**: 75.**Old distribution** : N.W. Himalayas; Canara; Nilgiris..**Material Examined :**

Shimla: Koti, 27.vi.12, 4♂♂; Kharapathar, 30.vi.12, 4♂♂; Cheog, 29.vi.12, 2♂♂.

Kangra: Balakrupi, 8.vii.13, 2♂♂.

Solan: Gharkhal, 4.v.13, 3♂♂.

***Hypocala rostrata* (Fabricius)**Fabricius, 1794, *Syst. Ent.*, **3**: 127.**Old distribution** : E. & S. Africa; N. W. Himalyas; Canara; Nilgiris.**Material Examined :**

Shimla: Koti, 23.vi.0, 1♂, 2♀♀, 7.vii.14, 1♂; Kharapathar, 22.vi.13, 2♂♂, 2♀♀.

***Hypocala deflorata* (Fabricius)**Fabricius, 1794, *Ent. Syst.*, **3**: 472.**Old distribution** : E. and S. Africa; N.W. Himalayas; Canara; Nilgiris.**Material Examined :**

Solan: Sairighat, 24.ix.12, 1♂.

Shimla: Kharapathar, 21.vi.13, 1♂.

Kangra: Balakrupi, 8.vii.13, 2♂♂.

GENUS LYNCESTIS WALKERLyncestis Walker, 1857, *Cat. Lep. Het.*, **11**: 632.**Type species** : *Lyncestis amphix* Cramer.***Lyncestis lativitta* (Moore)**Moore, 1882, *Lep. Atk.*, **1882**: 132.**Old distribution** : Banaras; Karachi; Poona; Nilgiris.**Material Examined :**

Kangra :Balakrupi, 7.vii.13, 1♂, 15.vii.12, 1♀.

Remarks : This species is new record from Himachal Pradesh.**GENUS ORESIA GUENÉE***Oresia* Guenée, 1852, *Noct.*, **2**: 362.**Type species** : *Noctua emarginata* Fabricius.***Oresia emarginata* (Fabricius)**Fabricius, 1794, *Ent. Syst.*, **3** (2): 82.**Old distribution** : China; throughout India; Sri Lanka and Myanmar.**Material Examined :**

Kangra: Balakrupi, 30.vii.14, 3♂♂, 2♀♀.

Chamba: Khajjair, 3.x.12, 3♂♂, 2♀♀; Ahla, 2.ix.14, 2♀♀.

Solan: Gharkhal, 4.v.13, 2♀♀.

GENUS PANDESMA GUENÉE*Pandesma* Guenée, 1852, *Hist. Nat. Ins. Spec. Gen. Lepid.*, **6**: 438, pl. 15, f. 3.**Type species** : *Pandesma quenavadi* Genuée.***Pandesma quenavadi* Guenée**Guenée, 1852, *Hist. Nat. Ins., Spec. gen. Lepid.*, **6** : 438, pl. 15, f. 3**Old distribution** : Throughout India, Sri Lanka and Mynamar.**Material Examined :**

Kangra: Balakrupi, 15.vi.12, 2♂♂, 3♀♀, 30.vii.14, 2♀♀.

Shimla: Kharapathar, 21.vi.13, 2♂♂.

GENUS PSIMADA WALKER*Primada* Walker, 1858, *Cat. Lep. Het.*, **2**: 1827.**Type species** : *Psimada quadripennis* Walker.***Psimada quadripennis* Walker**Walker, 1858, *Cat. Lep. Het.*, **2**: 1828**Old distribution** : Throughout India, Sri Lanka and Mynamar; Japan; Europe.**Material Examined :**

Kangra: Balakrupi, 30.vii.14, 5♂♂, 3♀♀.

GENUS REMA SWINHOE*Rema* Swinhoe, 1900, *Cat. Lep. Het.*, **2**: 121.**Type species** : *Toxocampa costimacula* Guenée.***Rema tetraspila* Walker**Walker, 1865, *Cat. Lep. Het.*, **33**: 1128.**Old distribution** : Throughout India, Mynamar and Sri Lanka; Europe; South Africa.**Material Examined :**

Kangra : Balakrupi, 15.vii.12, 2♂♂, 1♀.

SUBFAMILY CATOCALINAE**GENUS ACHAEA HÜBNER***Achaea* Hübner, [1823] 1818, *Verz. bekannter Schmett.* **1818**: 69.**Type species** : *Phalaena melicerta* Drury.***Achaea janata* (Linnaeus)**Linnaeus, 1758, *Syst. Nat.*, (*Edn. 10*) **1**: 527.**Old distribution** : Bombay.**Material Examined :**

Kangra : Balakrupi, 8.vii.13, 1♂.

Shimla : Koti, 7.vii.14, 2♂♂, 1♀.

Remarks : This species is new record from Himachal Pradesh.**GENUS ANOMIS HÜBNER***Anomis* Hübner [1821] 1816, *Verz. bekannter Schmett.* **1816**: 249.**Type species** : *Anomis exacta* Hübner.***Anomis fulvida* Guenée**Guenée, 1852, *Hist. Nat. Ins. Lepid.*, **6**: 397.**Old distribution** : Throughout India; Sri Lanka; Borneo.**Material Examined :**

Chamba : Ahla, 1.x.12, 2♀♀.

Kangra : Balakrupi, 30.vii.14, 3♂♂, 1♀.

***Anomis mesogona* (Walker)**Walker, 1857, *Cat. Lep. Het.*, **13**: 1002.**Old distribution** : Throughout India; Sri Lanka; Borneo.**Material Examined :**

Solani: Gharkhal, 6.vii.12, 3♂♂.

Kangra: Balakrupi, 16.vii.12, 2♂♂, 2♀♀.

Chamba : Khajjair, 30.x.12, 2♀♀; Pukhri, 14.ix.13, 2♂♂, 1♀.

GENUS ARTENA WALKER*Artena* Walker 1858, *Cat. Lep. Het.*, **14**: 1388.**Type species** : *Artena submira* Walker.

***Artena dotata* (Fabricius)**Fabricius, 1794, *Ent. Syst.*, **3** (2): 55.**Old distribution :** Throughout India, Sri Lanka and Mynamar.**Material Examined :**

Chamba : Saho, 13.ix.13, 1♂, 1♀.

Kangra : Balakrupi, 31.vii.14, 2♂♂.

GENUS CATOCALA SCHRANK*Catocala* Schrank, 1802, *Fauna Boica*, **2** (2): 158.**Type species :** *Phalaena nupta* Linnaeus.***Catocala prolifica* Walker**Walker, 1857, *Cat. Lep. Het.*, **13**: 1211.**Old distribution :** N. India.**Material Examined :**

Chamba: Khajjair, 3.x.12, 1♂, 1♀.

Shimla: Kharapathar, 10.vii.14, 1♀.

***Catocala armandi* Poujade**Poujade 1888, *Bull. Soc. Ent. Pr.*, **8**(6): 214.**Old distribution :** India; Sri Lanka; Tibet; Taiwan.**Material Examined :**

Chamba :Khajjair, 3.x.12, 2♂♂, 1♀; Ahla, 2.ix.14, 2♀♀.

Shimla :Kharapathar, 9.vii.14, 2♂♂, 2♀♀.

GENUS CHALCIOPE HÜBNER*Chalciope* Hübner, [1823] 1816, *Verz. bakannter Schmett*, **1816**: 268.**Type species :** *Phalaena mygdon* Cramer.***Chalciope Mygdon* (Cramer)**Cramer, 1777, *Pap. Exot.*, **2**: 156.**Old distribution :** China; Formosa; throughout India, Sri Lanka and Mynamar; Java; Borneo.**Material Examined :**

Kangra :Dharmshala, 19.ix.12, 1♂, 1♀.

GENUS DYSGONIA HÜBNER*Dysgonia* Hübner [1823] 1816, *Verz. bekannter Schmett*, **1816**: 269.**Type species :** *Phalaena algira* Linnaeus.***Dysgonia analis* (Guenée)**Guenée, 1852, *Noct.*, **3**: 271**Old distribution :** Throughout India, Sri Lanka and Mynamar; Europe; China.**Material Examined :**

Kangra :Balakrupi, 8.vii.12, 2♂♂, Bir, 20.ix.12, 1♀.

***Dysgonia latifascia* Warren**Warren, 1888, *Proc. Zoo. Soc.*, **1888**: 316.**Old distribution :** Europe; Africa; Mauritius; Japan; China; throughout India, Sri Lanka and Mynamar.**Material Examined :**

Solan :Sairighat, 24.ix.12, 1♂.

Shimla :Cheog, 28.vi.12, 1♂.

***Dysgonia crameri* (Moore)**Moore, 1885, *Lep. Ceyl.*, **3**: 177, pl. 171, f. 2.**Old distribution :** Throughout India, Sri Lanka and Mynamar; Andamans.

Material Examined :

Kangra: Balakrupi, 31.vii.14, 2♂♂, 15.vii.12, 1♀.
 Solan: Gharkhal, 6.vii.12, 1♀.

***Dygonia torrida* (Guenée)**

Guenée, 1852, *Noct.*, **3**: 269

Old distribution : Europe; Africa; Mauritius; Japan; China; throughout India; Sri Lanka and Mynamar.

Material Examined :

Kangra: Balakrupi, 15.vii.12, 2♀♀, 30.vii.14, 2♂♂, 1♀.

GENUS GRAMMODES GUENÉE

Grammodes Guenée, 1852, *Noct.*, **3**: 275.

Type species : *Noctua geometrica* Fabricius.

***Grammodes geometrica* (Fabricius)**

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

Old distribution : Europe; Africa; Formosa; throughout India and Sri Lanka; Java; Australia.

Material Examined :

Kangra : Dharmshala, 19.ix.12, 2♂♂, 1♀.

GENUS MOCIS HÜBNER

Mocis Hübner, [1823] 1816, *Verz. bekannter Schmett.*, **1816**: 267.

Type species : *Phalaena virbia* Cramer.

***Mocis furgalis* (Fabricius)**

Fabricius, 1775, *Syst. Ent.*, **6**: 601.

Old distribution : W. Africa and throughout the Oriental and Australian regions.

Material Examined :

Kangra : Dharmshala, 19.ix.12, 2♂♂, 1♀.

***Mocis undata* (Fabricius)**

Fabricius, 1775, *Syst. Ent.*, **6**: 600.

Old distribution : Punjab; Assam; Silhet; Shillong; Bengal; Bombay; Madras; Nilgiris; Travancore.

Material Examined :

Kangra : Balakrupi, 16.vii.12, 2♂♂, 1♀.

Remarks : This species is new record from Himachal Pradesh.

GENUS OPHIUSA OCHSENHEIMER

Ophiusa Ochsenheimer, 1816, *Schmett. Eur.*, **4**: 2.

Type species : *Phalaena tirrhaca* Cramer.

***Ophiusa indistincta* (Moore)**

Moore, 1882, *Lep. Atk.*, **1882**: 169, pl. 6, fig. 12.

Old distribution : Simla.

Material Examined :

Solan: Gharkhal, 4.v.13, 2♂♂.

Chamba : Saho, 13.ix.13, 1♀.

***Ophiusa triphaenoides* (Walker)**

Walker, 1858, *Cat. Lep. Het.*, **14**: 1358.

Old distribution : Formosa; N.W. and E. Himalayas; Bengal; W. and S. India.

Material Examined :

Chamba : Saho, 13.ix.13, 2♂♂.

Shimla: Kharapathar, 30.vi.12, 2♀♀, 10.vii.14, 1♂.

***Ophiusa tirrhaca* (Cramer)**

Cramer, 1777, *Pap. Exot.*, **2**: pl. 172, f. E.

Old distribution : Europe; S. Africa; Madagascar; throughout India.

Material Examined :

Solan: Sairighat, 23.ix.12, 1♂.

Chamba :Pukhri, 15.ix.13, 1♀.

Kangra :Balakrupi, 16.vii.12, 1♂.

Shimla :Kharapathar, 27.ix.14, 2♂♂.

GENUS OTHRESYPNA BERIO

Othresypna Berio 1958, *Annanli Mus.civ.Stor.nat.Giacomo Doria*, **70**: 362.

Type species : *Cerbia subolivacea* Walker.

***Othresypna contellata* (Moore)**

Moore, 1882, *Proc. Zoo. Soc.*, **1882**: 24, pl.159, fig. 2.

Old distribution : N.W. Himalayas.

Material Examined :

Shimla: Cheog, 28.vi.12, 1♂.

GENUS PARALLELIA HÜBNER

Parallelia, Hübner, 1827, *Verz. bekannter Schmett*, **1827**: 269.

Type species : *P. bistriaris* Hübner.

***Parallelia maturata* Walker**

Walker, 1858, *Cat. Lep. Het.*, **14**: 1382.

Old distribution : Khasis, Calcutta; Bomaby; Nilgiris; Penag.

Material Examined :

Kangra :Balakrupi, 15.vii.12, 2♂♂, 1♀.

Remarks : This species is new record from Himachal Pradesh.

***Parallelia conficiens* Walker**

Walker, 1858. *Cat. Lep. Het.*, **14**: 1432.

Old distribution : N.W. Himalayas; Bombay.

Material Examined :

Kangra :Balakrupi, 9.vii.13, 1♂.

GENUS PERICYMA HERRICH-SCHÄFFER

Pericyma Herrich-schäffer, [1851] 1845, *Syst. Bearb. Schmett. Eur.*, **2**: 429.

Type species : *Acidalia albidentaria* Freyer.

***Pericyma umbrina* (Guenée)**

Guenée, 1852, *Hist. Nat. Ins. Lepid.*, **7**: 4.

Old distribution : Throughout India.

Material Examined :

Kangra :Balakrupi, 10.vii.13, 2♂♂, 1♀, 15.vii.12, 3♂♂, 2♀♀; Dharmshala, 19.ix.12, 3♂♂, 1♀.

***Pericyma glaucinans* (Guenée)**

Guenée, 1815, *Hist. nat. Insects Lepid.*, **7**: 16.

Old distribution : Congo; S. Africa; throughout India, Sri Lanka and Mynamar; Java.

Material Examined :

Kangra :Balakrupi, 8.vii.13, 5♂♂, 16.vii.12, 3♂♂, 3♀♀.

GENUS SPIRAMA GUENÉE

Spirama Guenée, 1852, *Noct.*, **3**: 194.

Type species : *S. retorta* Clerck.

***Spirama retorta* (Clerck)**

Clerck, 1764, *Icones Insect Rariorum*, **2**: pl. 54.

Old distribution :Japan; China; Chusan; throughout India, Sri Lanka and Mynamar; Andamans; Java.

Material Examined :

Solan:Sairighat, 24.ix.12, 2♂♂.

Chamba :Pukhri, 14.ix.13, 1♂.

Kangra :Balakrupi, 16.vii.12, 2♀♀.

GENUS TRIGONODES GUENÉE

Trigonodes Guenée, 1852, *Noct.*, **3**: 281.

Type species : *T. hyppasia* Cramer.

***Trigonodes hyppasia* (Cramer)**

Cramer, 1779, *Pap. Exot.*, **3**: 250

Old distribution :Africa; Mauritius; Madagascar; Aden; China; Formosa; throughout India, Sri Lanka and Mynamar; Java; Australia.

Material Examined :

Solan :Sairighat, 24.ix.12, 2♂♂, 1♀.

Kangra :Balakrupi, 30.vii.14, 1♂.

SUBFAMILY CHOLIPHORINAE

GENUS CAREA WALKER

Carea Walker, 1856, *Cat. Lep. Het.*, **10**: 474.

Type species : *Carea varipes* Walker.

***Carea subtilis* Walker**

Walker, 1856, *Cat. Lep. Het.*, **10**: 479

Old distribution : Throughout India and Sri Lanka; Andamans; Java.

Material Examined :

Kangra :Balakrupi, 15.vii.12, 2♂♂, 1♀, 31.vii.14, 2♂♂, 4♀♀; Bir, 20.ix.12, 2♂♂; Andretta, 6.vi.12, 3♂♂, 2♀♀.

GENUS XANTHODES GUENÉE

Xanthodes Guenée, 1852, *Noct.*, **2**: 209.

Type species : *Phalaena malvae* Esper.

***Xanthodes transversa* Guenée**

Guenée, 1852, *Noct.*, **2**: 211, pl. 10, fig. 5.

Old distribution : China; throughout India, Sri Lanka and Mynamar; Java; Duke of York Isle.

Material Examined :

Chamba :Saho, 12.ix.13, 2♂♂; Pukhri 14.ix.13, 2♀♀

Kangra :Balakrupi, 15.vii.12, 2♀♀, 30.vii.14, 2♂♂.

SUBFAMILY HADENINAE

GENUS ACTINOTIA HÜBNER

Actinotia Hübner, [1821] 1816, *Verz. bekannter Schmeett.*, **1816**: 244.

Type species : *Phalaena perspicillaris* Linnaeus.

***Actinotia intermediata* (Bremer)**

Bremer 1861, *Bull. de la Soc. Imp. Des. Nat. de Moscou.*, **3**: 489.

Old distribution :India; China; Sri Lanka; Europe.

Material Examined :

Chamba :Ahla, 2.x.12, 2♂♂; Khajjair, 3.x.12, 1♀.

GENUS ALETIA HÜBNER

Aletia Hübner [1821] 1816, *Verz. bekannter Schmett.*, **1821**: 239.

Type species : *Noctua vitellina* Hübner.

***Aletia l-album* (Linnaeus)**Linnaeus, 1767, *Syst. Nat. (Edn 12)* **1** (2): 850.**Old distribution** : Assam; Nilgiris; Sri Lanka; Andamans; Sumatra.**Material Examined :**

Solan: Sairighat, 23.ix.12, 2♂♂, 1♀.

Chamba : Ahla, 1.x.14, 2♀♀.

GENUS APOSPASTA FLETCHER*Aospasta* Fletcher, 1959, *Entomologists*, **92**: 45.**Type species** : *Aospasta sabulosa* Fletcher.***Aospasta fuscirufa* Hampson**Hampson, 1903, *Cat. Lep. Phal.*, **5**: 103, pl. 81, fig. 4.**Old distribution** : Kenya; India; China; Sri Lanka.**Material Examined :**

Shimla : Kharapathar, 21.vi.13, 1♂, 30.vi.12, 1♂, 1♀.

GENUS CALLOPISTRIA HÜBNER*Callopietria* Hübner [1821] 1816 *Verz. bekannter Schmett.* **1816**: 216.**Type species** : *Phalaena juventina* Stoll.***Callopietria maillardi* (Guenée)**Guenée, 1862, *Nates Ile Reunion*, **2**: 39.**Old distribution** : Tropical Africa; Pacific tropics; Australian tropics; throughout India, Sri Lanka and Mynamar Borneo; Java.**Material Examined :**

Shimla : Koti, 23.vi.13, 1♀, 7.vii.14, 2♂♂, 1♀; Cheog, 28.vi.12, 1♂.

GENUS CALLYNA GUENÉE*Callyna* Guenée, 1852, *Hist. Nat. Insects, Lepid.*, **5**: 112.**Type species** : *Callyna siderea* Guenée.***Callyna monoleuca* Walker**Walker 1858, *Cat. Lep. Het.*, **15**: 1667.**Old distribution** : Sikkim; Assam; Canara; Nilgiris; Sri Lanka.**Material Examined :**

Kangra : Balakrupi, 8.vi.13, 1♀, 30.vii.14, 2♂♂, 1♀.

***Callyna jugaria* Walker**Walker 1858, *Cat. Lep. Het.*, **15**: 1809.**Old distribution** : Throughout India and Sri Lanka; Andamans.**Material Examined :**

Kangra : Bharoli, 14.vii.12, 1♂, 2♀♀, Balakrupi, 31.vii.14, 2♂♂.

GENUS CHASMINA WALKER*Chasmina* Walker, 1856, *Cat. Lep. Het.*, **9**: 146.**Type species** : *Chasmina cygnus* Walker.***Chasmina tibialis* (Fabricius)**Fabricius, 1775, *Syst. Ent.*, **1775**: 578.**Old distribution** : China; Formosa; Africa; Japan; India; Sri Lanka and Mynamar; Australian and Pacific groups.**Material Examined :**

Solan : Sairighat, 23.v.12, 2♂, 1♀.

Kangra :Balakrupi, 9.vii.12, 1♂, 2♀♀.

Shimla :Koti, 8.vii.14, 2♂♂.

GENUS *CONDICA* WALKER

Condica Walker, 1856, *Cat. Lep. Het.*, **9**: 239.

Type species : *Condica palpalis* Walker.

Condica illecta (Walker)

Walker, 1856, *Cat. Lep. Het.*, **32**: 682.

Old distribution : Throughout India, Sri Lanka and Mynamar; Andamans.

Material Examined :

Solan :Gharkhal, 4.v.13, 3♂♂.

Kangra :Balakrupi, 9.vii.13, 1♀; Dharmshala, 19.ix.12, 2♂♂.

Chamba :Ahla, 2.x.12, 2♂♂; Khajjair, 3.x.12, 1♀.

GENUS *CONSERVULA* GROTE

Conservula Grote, 1874, *Bull. Buff. Soc. Nat. Sci.*, **2**: 17.

Type species : *Phologophora anodonta* Guenée.

Conservula indica (Moore)

Moore, 1867, *Proc. Zoo. Soc.*, **1867**: 57.

Old distribution :Sikkim.

Material Examined :

Shimla :Kharapathar, 21.vi.13, 2♂♂, 30.vi.12, 2♂♂; Koti , 23.vi.13, 2♀♀.

Remarks : This species is new record from Himachal Pradesh.

GENUS *EUPLEXIA* STEPHENS

Euplexia Stephens, 1829, *Nom. Br. Insects*, **1829**: 41.

Type species : *Euplexia lucipara* Linnaeus.

Euplexia semifascia Walker

Walker, 1856, *Cat. Lep. Het.*, **33**: 737.

Old distribution :N.W. Himalays; Satara; Nilgiris.

Material Examined :

Shimla : Koti, 27.vi.12, 1♂, 2♀♀; Cheog, 28.vi.12, 2♂♂.

GENUS *KARANA* MOORE

Karana Moore, 1882, *Lep. Atk.*, **2**: 113.

Type species : *Karana decorata* Moore.

Karana gemmifera (Walker)

Walker, 1857, *Cat. Lep. Het.*, **12**: 934.

Old distribution : Dharmshala; Sikkim; Poona; Nilgiris.

Material Examined :

Shimla : Koti, 27.vi.12, 2♂♂; Cheog, 28.vi.12, 3♀♀.

GENUS *LEUCANIA* OCHSENHEIMER

Leucania Ochsenheimer, 1816 *Eur. Schmett*, **1816**: 81.

Type species : *Leucania comma* Linnaeus.

Leucania obscura (Moore)

Moore, 1882, *Lep. Atk.*, **1882**: 97.

Old distribution : Shimla; Dharmshala; Sikkim; Sri Lanka; Nagas; E.Peru.

Material Examined :

Chamba :Saho, 13.ix.13, 3♂♂, 2♀♀; Pukhri, 3.ix.14, 3♀♀; Ahla, 1.x.14, 4♂♂, 3♀♀.

***Leucania distincta* (Moore)**

Moore, 1881, *Proc. Zoo. Soc.*, **1881**: 333, pl. 37, fig. 4.

Old distribution : Sikkim; Assam; Nilgiris; Sri Lanka; Andamans; Sumatra.

Material Examined :

Chamba : Ahla, 2.x.12, 2♂♂, 2♀♀.

Shimla : Kharapathar, 27.ix.14, 2♂♂, 1♀.

Remarks : This species is new record from Himachal Pradesh.

***Leucania decisissima* (Walker)**

Walker, 1865, *Cat. Lep. Het.*, **32**: 624

Old distribution : Sikkim; Assam; Nilgiris; Sri Lanka; Andamans; Sumatra.

Material Examined :

Solan : Sairighat, 24.ix.12, 1♂.

Chamba : Saho, 12.ix.13, 3♀♀.

Remarks : This species is new record from Himachal Pradesh.

GENUS MYTHIMNA OCHSENHEIMER

Mythimna Ochsenheimer, 1816, *Schmett. Eur.*, **4**: 78.

Type species : *Phalaena turca* Linnaeus.

***Mythimna loreyi* (Duponchel)**

Duponchel, 1827, *Lep. France*, **4**: 81, pl. 112, fig. 7.

Old distribution : Europe; throughout India, Mynamar and Sri Lanka.

Material Examined :

Solan : Sairighat, 24.ix.12, 1♂, 1♀.

Kangra : Dharmshala, 19.ix.12, 1♂.

Shimla : Koti, 8.vii.14, 1♂.

***Mythimna sinuosa* (Moore)**

Moore, 1882, *Lep. Atk.*, **1882**: 102.

Old distribution : Dharmshala; Sikkim; E. Pegu.

Material Examined :

Chamba : Saho, 12.ix.13, 2♂♂, 1♀.

Shimla : Kharapathar, 27.ix.14, 2♂♂, 2♀♀.

***Mythimna separata* (Walker)**

Walker, 1865, *Cat. Lep. Het.*, **32**: 626.

Old distribution : Universally distributed.

Material Examined :

Solan : Sairighat, 25.ix.12, 2♂♂, 2♀♀.

***Mythimna nainica* (Moore)**

Moore, 1881, *Proc. Zoo. Soc.*, **1881**: 337, pl. 37, fi. 15.

Old distribution : N.W. Himalayas; Khasis.

Material Examined :

Chamba : Khajjair, 3.x.12, 1♂, 2♀♀; Ahla, 1.ix.14, 2♂♂.

Shimla : Kharapathar, 27.ix.14, 1♂, 2♀♀; Cheog, 28.vi.12, 1♂.

***Mythimna unipuncta* (Haworth)**

Haworth, 1809, *Lep. Brit.*, **1809**: 174.

Old distribution : Universally distributed.

Material Examined :

Chamba : Ahla, 2.x.12, 2♂♂, 3♀♀.

Shimla : Koti, 27.vi.12, 2♂♂, 1♀.

GENUS ODONTESTRA HAMPSON

Odontestra Hampson, 1912, *Lep. Phal.*, **5**: 212.

Type species : *Mamestra vittigera* Hampson.

***Odontestra submarginalis* (Walker)**Walker, 1865, *Cat. Lep. Het.*, **32**: 679.**Old distribution** : W. Africa; Mauritius; Shanghai and throughout the Oriental and Australian regions.**Material Examined :**

Shimla :Kharapathar, 30.vi.12, 4♂♂; 2♀♀; Koti, 27.vi.12, 25♂♂, 3♀♀; Cheog, 29.vi.12, 3♂♂, 2♀♀.

Chamba :Ahla, 1.x.14, 4♂♂, 3♀♀.

GENUS *PHLOGAPHORA* TREITSCHKE*Phlogophora* Treitschke, 1825, *Schmett. Eur.*, **5** (1): 369.**Type species** : *Phalaena meticolosa* Linnaeus.***Phlogophora beatrix* Butler**Butler, 1878, *Amer. Mus. Nat. Hist.*, **5** (1): 193**Old distribution** :N. America; W. China; Japan; Siberia; Borneo.**Material Examined :**

Shimla :Kharapathar, 9.vii.14, 1♂, 1♀, Koti, 27.vi.7, 1♀.

Remarks : This species is new record from Himachal Pradesh.**GENUS *POLIA* OCHSENHEIMER***Polia* Ochsenheimer, 1816, *Schmett. Eur.*, **4**: 73.**Type species** : *Phalaena nebulosa* Hüfnagel.***Polia nigerrima* Warren**Warren, 1888, *Proc. Zoo. Soc.*, **1888**: 302.**Old distribution** : Thandiani; Punjab; Sikkim.**Material Examined :**

Shimla :Kharapathar, 9.vii.14, 3♂♂, 2♀♀; Koti, 7.vii.14, 1♂; Cheog, 28.vi.12, 2♂♂.

Chamba :Ahla, 1.ix.14, 2♂♂, 1♀.

Remarks : This species is new record from Himachal Pradesh.**GENUS *SPODOPTERA* GUENÉE***Spodoptera* Guenée, 1852, *Noct.*, **1**:153.**Type species** : *S. mauritia* Boisduval.***Spodoptera littoralis* (Boisduval)**Boisduval, 1833, *Faun. Ent. Madag., Lep.*, **1833**: 91, pl. 13, fig. 8.**Old distribution** :Mediterranean sub region and throughout the tropical and subtropical zones of the old world.**Material Examined :**

Solan :Sairighat, 24.ix.12, 4♂♂, 3♀♀.

Chamba :Ahla, 1.ix.12, 2♂♂, 2♀♀.

Kangra :Bir, 20.ix.12, 2♂♂, 2♀♀.

***Spodoptera pecten* (Guenée)**Guenée, 1852, *Hist. Nat. Lepid.*, **5**: 155.**Old distribution** : Sikkim, Assam, Bengal.**Material Examined :**

Solan :Sairighat, 25.iv.12, 2♂♂, 1♀.

Chamba :Ahla, 2.x.12, 2♂♂, 1♀.

GENUS *TRACHEA* OCHSENHEIMER*Trachea* Ochsenheimer, 1816, *Eur. Schmett.*, **4**: 75.**Type species** : *Phalaena atriplicis* Linnaeus.

***Trachea stoliczkae* (Felder and Rogenhofer)**

Felder & Rogenhofer, 1875, *Reise Ost. Fragatte Novara (Zool)*, **2**: pl. 109, fig. 32.

Old distribution : Dalhousie; Thandiani; Punjab.

Material Examined :

Shimla :Kharapathar, 21.vi.13, 2♂♂; Cheog, 28.vi.12, 3♂♂.

***Trachea auriplena* (Walker)**

Walker, 1857, *Cat. Lep. Het.*, **11**: 557.

Old distribution : Throughout India and Sri Lanka.

Material Examined :

Solan :Gharkhal, 5.vii.12, 2♂♂, 2♀♀.

Shimla :Cheog, 28.vi.12, 2♀♀; Koti, 24.vi.13, 1♂.

Chamba :Saho, 13.ix.13, 2♂♂; Ahla, 2.x.14, 2♂♂.

SUBFAMILY HELIOTHINAE**GENUS *HELICOVERPA* HARDWICK**

Helicoverpa Hardwick, 1965, *Mem. Ent. Soc. Can.*, **40**: 9.

Type species : *Noctua armigera* Hübner.

***Helicoverpa armigera* (Hübner)**

Hübner, 1827, *Samml. Eur. Schmett. Noc.*, **2**: pl 79, fig. 370.

Old distribution : Universally distributed.

Material Examined :

Solan :Sadopul, 5.v.12, 2♂♂, 1♀; Sabathu, 6.vi.12, 2♂♂, 1♀.

Chamba :Ahla, 1.vi.12, 1♂; Khajjair, 3.x.12, 1♂, 1♀; Bir, 20.ix.12, 1♂.

Shimla :Koti 7.vii.14, 2♂♂, 1♀.

***Helicoverpa assulta* (Guenée)**

Guenée, 1852, *Hist. nat. Ins. Spec. gen. Lepid.*, **6**: 178.

Old distribution :Tropical Africa; Tropical Asia.

Material Examined :

Chamba :Pukhri, 14.ix.13, 2♂♂; Bir, 20.ix.12, 1♀.

GENUS *HELIOTHIS* OCHSENHEIMER

Heliothis Ochsenheimer, 1816, *Eur. Schmett*, **4**: 91.

Type species : *Phalaena dipsacea* Linnaeus.

***Heliothis peltigera* (Dennis & Schiffermüller)**

Schiffermüller, 1776, *Wien. Verz.* **2**: 89.

Old distribution :Europe; Teneriffe; S.Africa; Persca; N.W.India; New Zealand.

Material Examined :

Shimla :Koti, 27.vi.12, 1♀.

Chamba :Ahla, 1.x.12, 2♂♂.

SUBFAMILY HYPININAE**GENUS *DICHROMIA* GUENÉE**

Dichromia Guenée, 1854, *Hist. nat. Ins. Spec. Gen. Lep.*, **8**: 18.

Type species : *Phalaena orosia* Cramer.

***Dichromia pullata* (Moore)**

Moore, 1885, *Lep. Cey.*, **3**: 221, pl. 176, f. 4.

Old distribution :Throughout India and Sri Lanka.

Material Examined :

Solan : Gharkhal 3.v.13, 2♂♂, 2♀♀.

Kangra : Dharmshala, 19.ix.12, 2♂♂, 1♀; Balakrupi, 9.vii.13, 2♂♂, 30.vi.14, 4♂♂.

Shimla : Koti, 7.vii.14, 2♂♂, 2♀♀.

***Dichromia trigonalis* (Guenée)**

Guenée, 1854, *Hist. nat. Insects Lepid.*, **2**: 19, pl. z, fig. 1

Old distribution : Throughout India and Sri Lanka.

Material Examined :

Kangra : Ahla, 2.ix.14, 1♂; Bir, 20.09.12, 1♀.

GENUS *BOMOLOCHA* HÜBNER

Bomolocha, Hübner, 1825, *Verz. bekannter Schmett.*, **22**: 343.

Type species : *Phalaena crassalis* Fabricius.

***Bomolocha zilla* Butler**

Butler, 1879, *Ill. Het. Br. Mus.* **3**: 60, pl. 56, f. 1.

Old distribution : Europe; Japan.

Material Examined :

Shimla : Cheog 28.vi.12, 1♀; Koti, 23.vi.13, 1♂.

Remarks : This species is new record from Himachal Pradesh.

SUBFAMILY NOCTUINAE

GENUS *AGROTIS* OCHSENHEIMER

Agrotis, Ochsenheimer, 1816, *Schmett. Eur.*, **4**: 66.

Type species : *Noctua segetum* (Dennis & Schiffermüller).

***Agrotis putris* (Linnaeus)**

Linnaeus, 1758, *Syst. Nat.*, **1**: 850.

Old distribution : Europe; Japan; Dharmshala.

Material Examined :

Shimla : Kharapathar, 22.vi.13, 1♀; Cheog, 28.vi.12, 2♂♂, 1♀.

Chamba : Saho, 12.ix.13, 1♂; Pukhri, 3.ix.14, 1♂, 2♀♀.

***Agrotis flammata* (Fabricius)**

Fabricius, 1789, *Mant. Inst.*, **2**: 1555.

Old distribution : Europe; N.W. Himalayas; Punjab; Sikkim.

Material Examined :

Shimla : Kharapathar, 21.vi.13, 2♂♂, 1♀; Koti, 27.vi.12, 1♂, 2♀♀.

***Agrotis ipsilon* (Hüfnagel)**

Hüfnagel, 1766, *Rott. Nat.*, **11**: 141.

Old distribution : Universally distributed except S. America.

Material Examined :

Solan : Sairighat, 25.ix.12, 3♂♂, 1♀.

Shimla : Cheog, 28.vi.12, 2♂♂; Koti, 8.vii.14, 2♂♂.

Chamba : Ahla, 2.ix.14, 2♀♀.

***Agrotis renalis* (Moore)**

Moore, 1881, *Proc. Zoo. Soc.*, **1881**: 341.

Old distribution : N.W. Himalayas; Punjab; Sind.

Material Examined :

Chamba : Pukhri, 15.ix.13, 1♀, 4.ix.14, 1♂, 1♀.

Shimla : Koti, 23.vi.13, 2♂♂; Cheog, 27.vi.12, 1♂, 1♀.

***Agrotis biconica* (Kollar)**

Kollar, 1844, *Hügel's Kaschmir*, **4**: 480.

Old distribution : S. Africa; N.W Himalayas; Punjab; Sikkim; throughout Bombay and Madras Presidencies; Sri Lanka.

Material Examined :

Solan : Sairi Ghat, 24.ix.12, 3♂♂, 2♀♀.

***Agrotis segetum* (Dennis & Schiffermüller)**

Schiffermullar, 1775, *Wien. verz.*, **81**: 252, figs. 3a, b.

Old distribution : Europe; throughout India and Sri Lanka.

Material Examined :

Shimla : Cheog, 28.vi.12, 1♂, Kharapathar, 27.ix.14, 2♂♂;

Chamba : Ahla, 2.x.12, 1♂, 1♀.

GENUS CHERSOTIS BOISDUVAL

Chersotis Boisduval, 1840, *Genera Index moth. Eur.Lepid.*, **1840**: 103.

Type species : *Noctua rectangula* Dennis & Schiffermüller.

***Chersotis griseivena* Hampson**

Hampson, 1894, *Fauna Br. Ind. Moths*, **2**: 187.

Old distribution : Dalhousie.

Material Examined :

Shimla : Kharapathar 23.vi.13, 2♂♂.

GENUS HERMONASSA WALKER

Walker, 1865, *Cat. Lep. Het.*, **32**: 631.

Type species : *Hermonassa consignata* Walker.

***Hermonassa lanceola* Moore**

Moore, 1867, *Proc. Zoo. Soc.*, **1867**: 59.

Old distribution : Japan; N.W Himalayas; Sikkim; Satara; Nilgiris.

Material Examined :

Shimla : Kharapathar 22.vi.13, 1♂.

GENUS OCHROPLEURA HÜBNER

Ochropleura Hübner, 1821, *Verz. bek. Schmett.*, **14**: 223.

Type species : *Phalaena plecta* Linnaeus.

***Ochropleura triangularis* Moore**

Moore, 1867, *Proc. Zoo. Soc.*, **1867**: 55.

Old distribution : Japan; N.W Himalayas; Sikkim; Satara; Nilgiris.

Material Examined :

Shimla : Kharapathar 22.vi.13, 1♂, 9.vii.14, 1♀.

GENUS XESTIA HÜBNER

Xestia Hübner, 1818, *Zutrage Samml. Exot. Schmett.*, **1**: 16.

Type species : *Noctua ochreago* Hübner.

***Xestia semiherbida* (Walker)**

Walker, 1857, *Cat. Lep. Het.*, **11**: 743.

Old distribution : Japan; Dharmasala; Sikkim.

Material Examined :

Solan : Gharkhal, 3.v.13, 3♂♂, 2♀♀.

Shimla : Kharapathar 22.vi.13, 2♂♂, 3♀♀; Koti 23.vi.13, 2♂♂, 3♀♀.

Chamba :Saho, 13.ix.13, 2♂♂; Pukhri 14.ix.13, 2♂♂; Ahla 1.x.14, 2♂♂, 1♀.

***Xestia c-nigrum* (Linnaeus)**

Linnaeus, 1766, *Syst. Nat.*, **1** (2): 852.

Old distribution : N. America; Europe; Japan; N.W. Himalayas; Khasis; Bombay; Nilgris; Sri Lanka.

Material Examined :

Solan :Sairighat, 3.ix.12, 1♂, 1♀; Gharkhal, 3.v.13, 1♂.

Shimla :Koti, 27.vi.12, 1♂, 7.vii.14, 2♂♂, 3♀♀.

Chamba :Ahla 1.x.14, 2♂♂, 3♀♀.

SUBFAMILY PLUSIINAE

GENUS *AUTOGRAPHA* HÜBNER

Autographa Hübner 1821, *Verz. bek. Schmett.* **16**: 251.

Type species : *Phalaena gamma* Linnaeus.

***Autographa nigrisigna* (Walker)**

Walker, 1857, *Cat. Lep. Het.*, **12**: 928.

Old distribution : N.W. Province; the Himalaya from Simla to Sikkim.

Material Examined :

Shimla :Kharapathar, 21.vi.13, 2♀♀; Koti, 27.vi.12, 2♀♀.

Solan :Gharkhal, 24.v.12, 1♂.

GENUS *CTENOPLUSIA* DUFAY

Ctenoplusia Dufay, 1970, *Faune Madagascar*, **31**: 91.

Type species : *Plusia limbirena* Guenée.

***Ctenoplusia furcifera* (Walker)**

Walker, 1856, *Cat. Lep. Het.*, **12**: 927.

Old distribution : N.W. Himalayas; Poona; Nilgiris.

Material Examined :

Shimla :Koti, 27.vi.12, 3♀♀, 7.vii.14, 1♂, 2♀♀.

Chamba :Ahla, 1.x.12, 1♂.

***Ctenoplusia albostrata* (Bremer & Grey)**

Bremer, 1853, *Beitr. Nord. Chin.*, **97**: 18.

Old distribution : Japan; China; Dharmshala; Nilgiris.

Material Examined :

Chamba :Pukhri, 14.ix.13, 2♂♂; Ahla, 1.x.12, 1♂, 3♀♀.

Shimla :Kharapathar, 9.ix.14, 2♀♀.

GENUS *ERYTHROPLUSIA* ICHINOSE,

Erythroplusia Ichinose, 1962, *Kontyu*, **30**: 249.

Type species : *Plusia rutilifrons* Walker.

***Erythroplusia pyropia* (Butler)**

Butler, 1881, *Amer. Mus. Nat. Hist.*, **4** (5): 367.

Old distribution : Japan; Dharmshala; Sikkim; Nagas.

Material Examined :

Chamba :Khajjair, 3.x.12, 1♂, 1♀; Ahla, 1.ix.14, 2♂♂, 1♀.

GENUS *MACDUNNOGHIA* KOSTROWICKI

Macdunnoghia Kostrowicki, 1861, *Acta. Zool. Cracov.*, **6**: 402.

Type species : *Plusia confusa* Stephens.

***Macdunnoghia tetragona* (Walker)**Walker, 1859, *Cat. Lep. Het.*, **12**: 932.**Old distribution** : Japan; India.**Material Examined :**

Chamba :Saho, 13.vii.13, 2♂♂.

Shimla :Kharapathar, 27.ix.14, 1♂, 1♀.

GENUS *SCRIPTOPLUSIA* RONKAY*Scriptoplusia* Ronkay, 1987, *Annl. Hist. Nat. Mus. Natn. Hung.*, **79**: 170.**Type species** : *Phalaena nigriluna* Walker.***Scriptoplusia nigriluna* (Walker)**Walker, 1856, *Cat. Lep. Het.*, **12**: 931.**Old distribution** : Sikkim; Sri Lanka.**Material Examined :**

Solan :Sairighat, 24.ix.12, 2♂♂, 2♀♀.

Kangra :Balakrupi, 28.ix.14, 1♀.

Shimla :Koti, 7.vii.14, 2♀♀.

Chamba :Ahla, 1.x.12, 3♂♂♂, 1♀.

Remarks : This species is new record from Himachal Pradesh.**GENUS *TRICHOPLUSIA* MCDUNNOUGH***Trichoplusia* McDunnough, 1944, *Mem. Soc. Calif. Acad. Sci.*, **2**: 204.**Type species** : *Plusia brassicae* Riley.***Trichoplusia ni* (Hübner)**Hübner, 1802, *Noct.*, **1802**: 284, pl. 58, fig. 284.**Old distribution** :San Domingo; Europe; Vincent; Aden; Japan; China; N.W. India.**Material Examined :**

Solan :Sairighat 25.ix.12, 1♂.

Chamba :Ahla 2.x.12, 2♂♂, 1♀; Saho, 12.ix.13, 2♂♂.

Shimla :Koti, 7.vii.12, 2♂♂.

***Trichoplusia orichalcea* (Fabricius)**Fabricius, 1789, *Sp. Ins.*, **2**: 227.**Old distribution** :Azores; Madeira, Canaries; St. Halena; S. Africa; Mauritius; Arabia; Japan; China; Formosa; throughout India and Sri Lanka.**Material Examined :**

Solan :Sairighat, 24.ix.12, 4♂♂.

Shimla :Koti, 23.vi.13, 1♀, 16.vii.12, 1♀, 1♂.

GENUS *LOPHOPTERA* GUENÉE*Lophoptera* Guenée 1852, *Hist. Nat. Insects Lepid.*, **3**: 54.**Type species** : *Lophoptera squammigera* Guenée.***Lophoptera squammigera* Guenée**Guenée, 1852, *Noct.*, **3**: 55.**Old distribution** :Australia; India; Sri Lanka; Europe.**Material Examined :**

Solan :Gharkhal, 4.v.13, 1♀, 24.v.12, 1♂.

Kangra :Balakrupi, 8.vii.13, 2♀♀, 30.vii.14, 2♂♂.

Shimla :Koti, 8.vii.14, 2♂♂, 1♀.

Chamba :Ahla, 1.ix.14, 2♂♂.

GENUS ODONTODES GUENÉE*Odontodes* Guenée, 1852, *Noct.*, **3**: 50.**Type species** : *Odontodes aleuca* Guenée.***Odontodes aleuca* Guenée**Guenée, 1852, *Noct.*, **3**: 51.**Old distribution** :W. Africa; throughout India and Mynamar.**Material Examined :**

Solan :Gharkhal 15.vii.12, 1♂, 1♀.

Kangra :Balakrupi, 7.vii.12, 2♂♂.

***Odontodes quadririgata* Walker**Walker, 1856, *Cat. Lep Het.*, **33**: 923**Old distribution** : Throughout India and Mynamar.**Material Examined :**

Solan :Gharkhal, 6.vii.12, 2♂♂.

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