

# MOTHS OF NEW FOREST CAMPUS

## DEHRADUN, INDIA



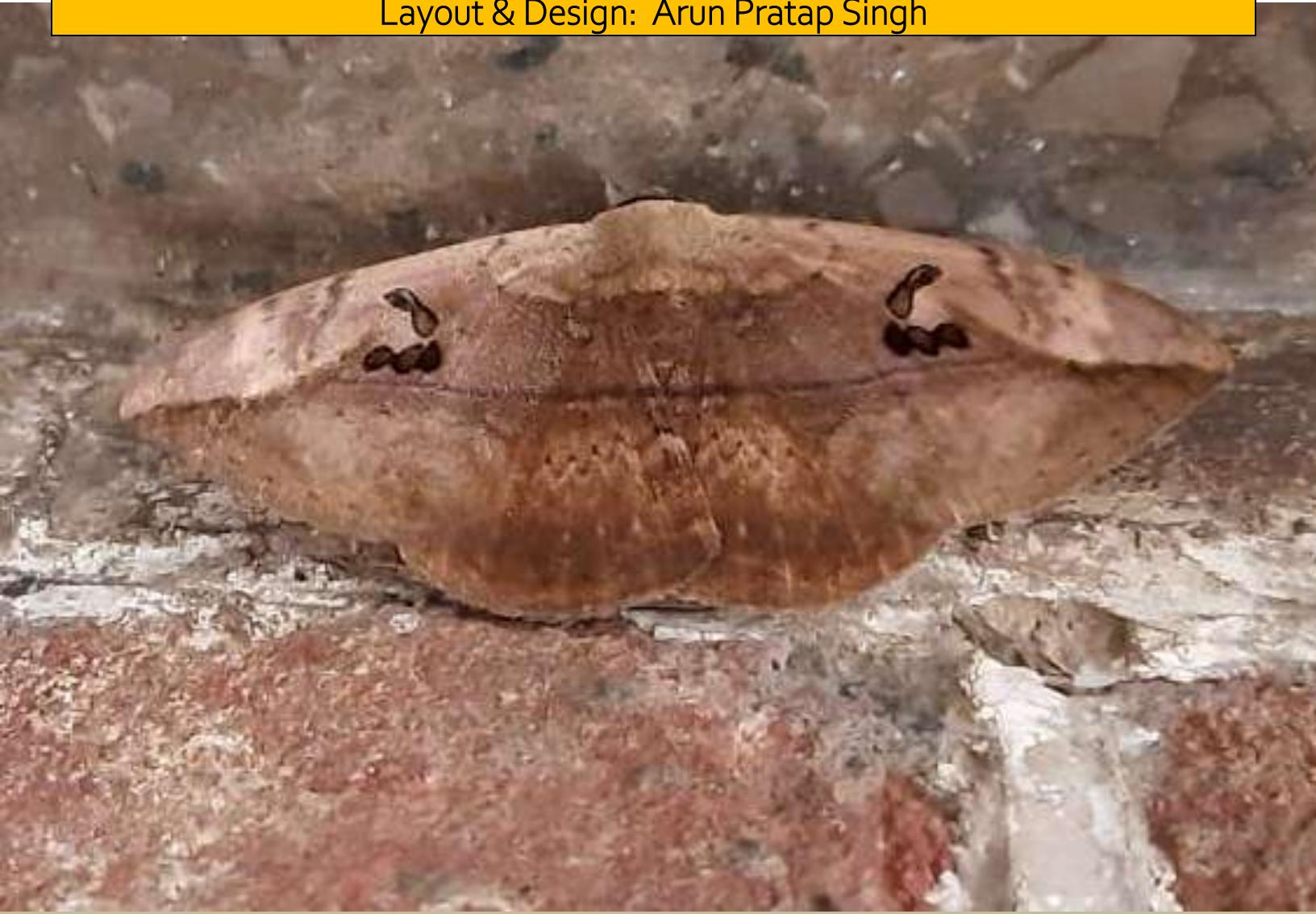
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& ASHIRWAD TRIPATHY



FOREST RESEARCH INSTITUTE  
DEHRADUN



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## Foreword

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Moths are considered as butterflies of the night. They have diverse colours and patterns that are either dazzling or so cryptic that they define camouflage. Being nocturnal they seem mysterious. Very few people know about their habits and ecology. Moths are amongst the most diverse and successful organisms on earth. They constitute 90 percent of the species in Lepidoptera order of insects. Globally around 5,00,000 species of moths have been recorded with over 10,000 species from India. Species of macro-moths are today used as bio-indicators of environment quality. They depict diversity of plants and health of an ecosystem. Thus, they may help in conserving microhabitats. Recently moths have also been used as climate change indicators. These facts make them interesting organisms for studying their ecology and diversity. The booklet on 'Moths of New Forest Campus, Dehradun, India' is a unique compilation listing 514 species of moths so far recorded in the campus. The booklet is aimed to create public awareness towards conservation of moths, and can help in promoting moth inclusive eco-tourism in the area. The launching of this e-booklet during 'National Moth Week' 2022 commemorates 'Azadi-Ka-Amrit-Mahotsav' in the 75<sup>th</sup> year of India's Independence.

Dr. Renu Singh IFS  
(Director, FRI)

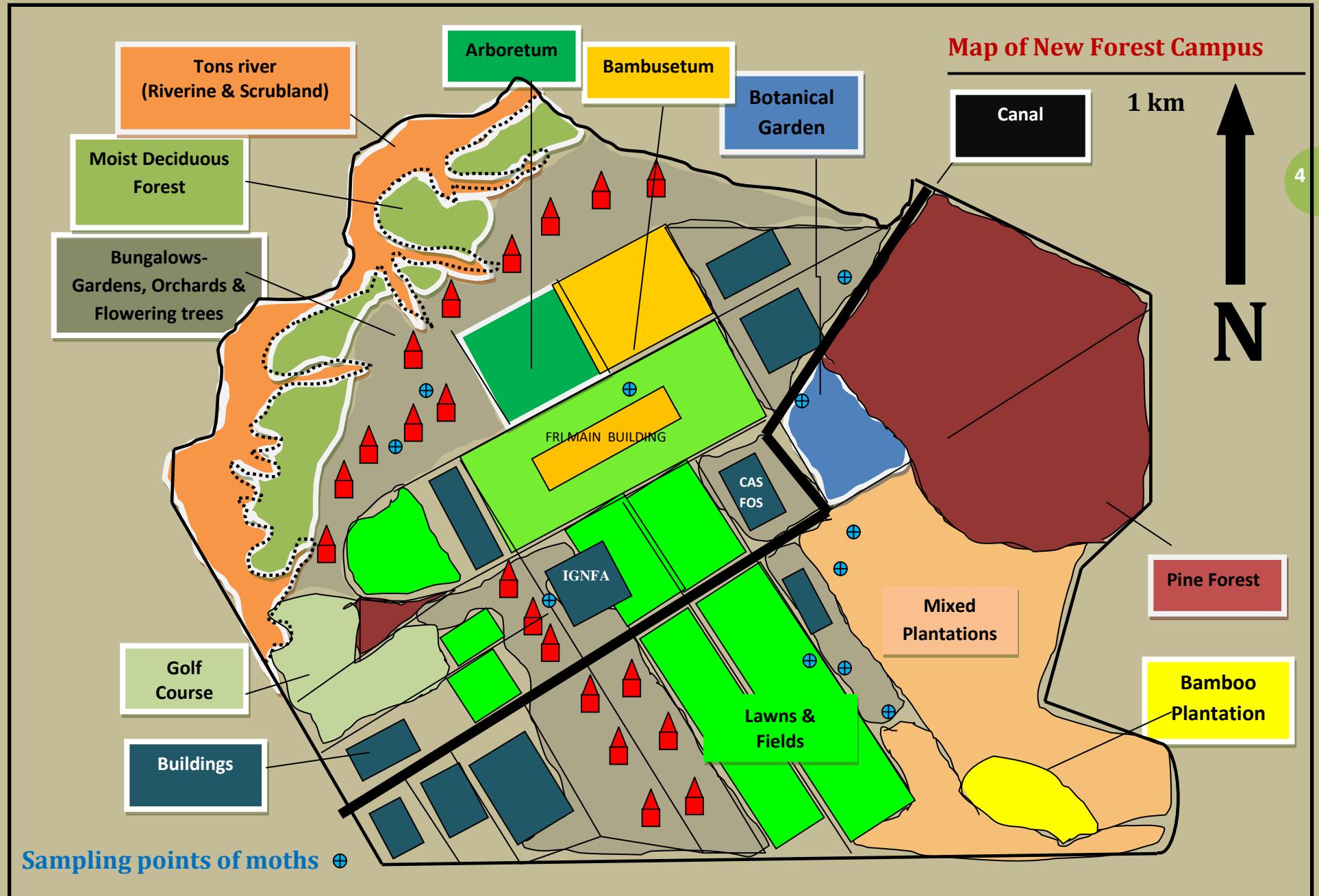
## MOTHS OF NEW FOREST

The campus of the Forest Research Institute, also known as New Forest lies in the heart of Dehradun valley, Uttarakhand, India which falls between the Himalayan mountain ranges to its north and Shiwaliks ranges running parallel to it on its south. New Forest occupies an area of 4.4 km<sup>2</sup> at 670m, is refuge to a large number of faunal species that are found across the west Himalayan foothills as well as plains of northern India. The mean annual temp of the campus is 13°C to 20 °C and annual mean rainfall is 200 cm. The campus was created in 1927 and is unique as it has combination of both artificial and natural habitats, with numerous indigenous and exotic plant species, being flanked by natural, mixed and pure stands of moist deciduous forests with mainly *Shorea robusta* on the slopes. More than 972 species of trees, bamboos, shrubs and climbers, 73 species of herbs and 28 species of grasses are present in the campus of which about 500 species are exotic from different parts of the world. A large number of habitats are present in the campus which include old pine plantation, *Pinus roxburghii*; teak, *Tectona grandis* and other mixed and pure plantations. Bamboo thickets, a large botanical garden, an arboretum, big fields and lawns, agriculture, nurseries, cultivated land, fruit tree orchards, flowering and fruiting tree avenues, bushes, a canal and a golf course.

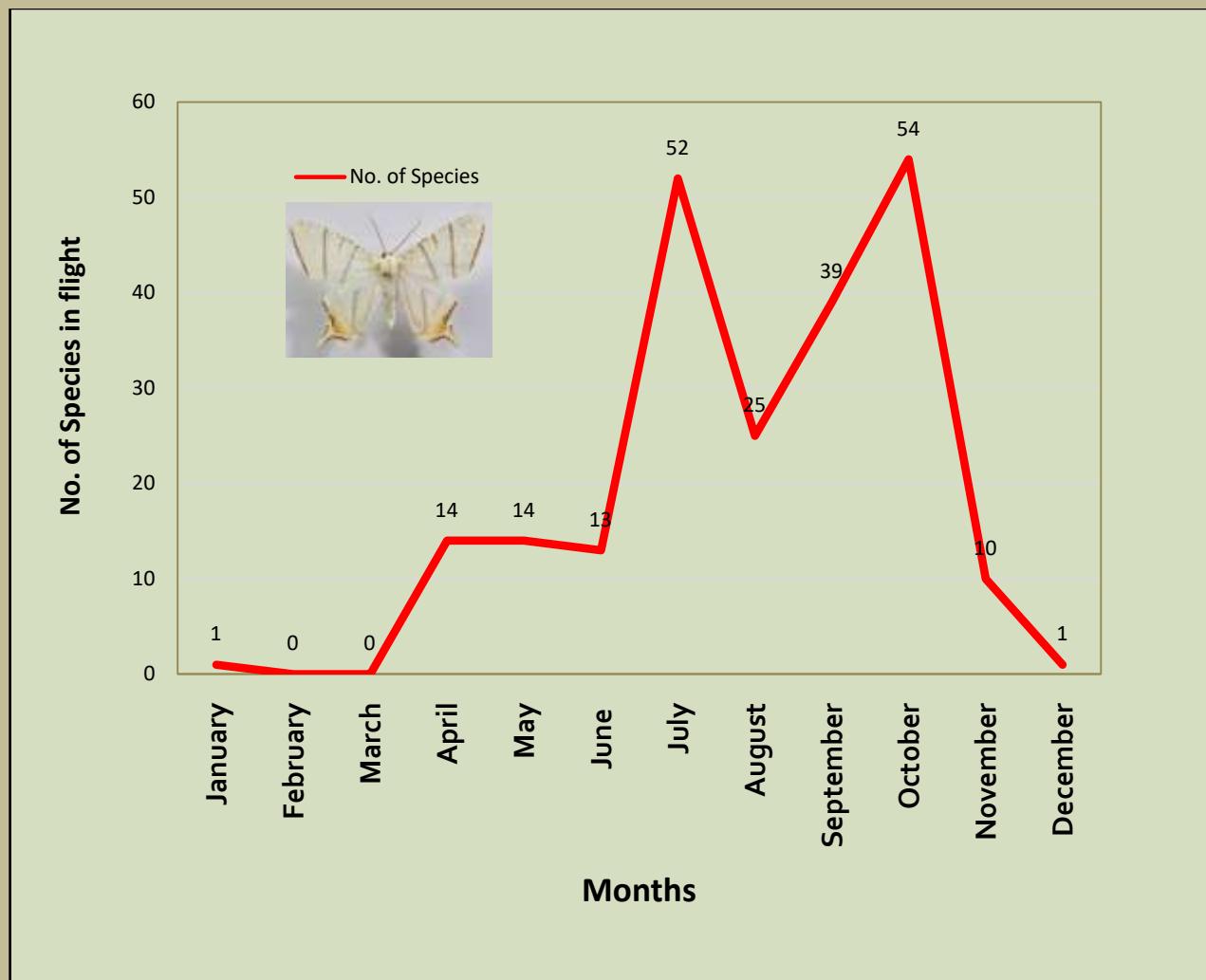
Moths are considered as butterflies of the night but are not as well appreciated as their day cousins. Moths are seen in every region where their host plants are available and are most abundant in tropical regions. Most moths feed on nectar, but some feed on decaying plant or animal matter, over ripened, rotten fruits and animal dung. Caterpillars too feed on a range of foods but usually prefer leaves. A moth assemblage is a group of male moths that congregate around newly emerged female moths for mating. Mimicry is a form of camouflage, moths and their caterpillars mimic objects or other organisms in the wild for protection.

As most moths do not fly during the day and the best method to observe moths is to use a white sheet with light bulb as moths are attracted to light. Moths navigate in the dark by using moonlight for orientation. The moon rays guide them mostly to fly in a linear fashion. Artificial lights disturb this orientation and thus flying moths are attracted to light traps / moth sheets using mercury vapour bulb or an actinic lamp or LEPI led lights, at night. For moth watching the best nights are new moon nights, when there is less light in the sky and most of them are attracted to artificial light.

## Map of New Forest Campus



The present list of moths of New Forest campus has been compiled based on observations made during 2017-2021 using CFL lights carried out over 85 nights (7-10 pm) from March to October at various locations on the New Forest campus, Dehradun. The comprehensive checklist includes 514 species belonging to 33 families, 94 sub-families, 362 genera and also includes earlier records by Roonwal et al.(1956)\*.The seasonality of moths (Fig.2) suggests that peak flight period of moths in the New Forest campus is from July to October (during or just after monsoon), which are thus the best time for watching moths.



Seasonality of moths in New Forest Campus, Dehradun, India

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2	BRACHODIDAE	07
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18	LIMACODIDAE	19
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23	OECOPHORIDAE	23
24	PYRALIDAE	23
25	PSYCHIDAE	23
26	SATURNIIDAE	23
27	SESIIDAE	23
28	SPHINGIDAE	23-24
29	TINEIDAE	24
30	TORTRICIDAE	24-25
31	URANIIDAE	25
32	YPONOMEUTIDAE	25
33	ZYGAENIDAE	25

4. *Brahmaea hearseyi*11. *Eoophyla cf. peribocalis*12. *Arthroschista hilaralis*14. *Botyodes asialis*

SL. NO.	SPECIES
<b>01 Family BOMBYCIDAE</b>	
Subfamily BOMBYCINAE	
1	<i>Penicillifera apicalis</i> (Walker, 1862)
2	<i>Ocinara albicollis</i> (Walker, 1978)
<b>02 Family BRACHODIDAE</b>	
Subfamily PHYCODINAE	
3	<i>Phycodes radiata</i> (Ochsenheimer, 1808)
<b>03 Family BRAHMAEIDAE</b>	
4	<i>Brahmaea hearseyi</i> White, 1862
<b>04 Family CHOREUTIDAE</b>	
Subfamily CHOREUTINAE	
5	<i>Choreutis aegyptiaca</i> (Zeller, 1867)
<b>05 Family COSMOPTERYGIDAE</b>	
Subfamily COSMOPTERIGINAE	
6	<i>Cosmopterix attenuatella</i> (Walker, 1864)
7	<i>Stagmatophora acanthodes</i> (Meyrick, 1933)
<b>06 Family COSSIDAE</b>	
Subfamily ZEUZERINAE	
8	<i>Polyphagozerra coffeae</i> (Nietner, 1861)
9	<i>Xyleutes persona</i> (Le Guillou, 1841)
10	<i>Zeurrora indica</i> (Herrich-Schäffer, 1854)

15. *Bradina diagonalis*

SL. NO.	SPECIES
<b>07 Family CRAMBIDAE</b>	
Subfamily ACENTROPINAE	
11	<i>Eoophyla cf. peribocalis</i> (Walker, 1859)
Subfamily SPILOMELINAE	
12	<i>Arthroschista hilaralis</i> Walker, 1859
13	<i>Botyodes diniasalis</i> (Walker, 1859)
14	<i>Botyodes asialis</i> Guenée, 1854
15	<i>Bradina diagonalis</i> (Guenée, 1854)
16	<i>Cirrhochrista brizoalis</i> (Walker, 1859)
17	<i>Conogethes punctiferalis</i> (Guenée, 1854)
18	<i>Cnaphalocrocis medinalis</i> (Guenée, 1854)
19	<i>Cnaphalocrocis rutilalis</i> Walker, 1859
20	<i>Cnaphalocrocis trebiusalis</i> Walker, 1859
21	<i>Cydalima laticostalis</i> Guenée, 1864
22	<i>Diaphania indica</i> (Saunders, 1851)
23	<i>Endocrosis flavibasalis</i> (Moore, 1867)
24	<i>Glyphodes bicolor</i> (Swainson, 1821)
25	<i>Haritalodes derogata</i> (Fabricius, 1775)
26	<i>Nausinoe perspectata</i> (Fabricius, 1775)
27	<i>Nomophila noctuella</i> (Dennis & Schiffermuller, 1775)
28	<i>Omiodes analis</i> Snellen 1880

18. *Cnaphalocrocis medinalis*

20. *Cnaphalocrocis trebiusalis*21. *Cydalima lacticostalis*22. *Diaphania indica*

SL. NO.	SPECIES
29	<i>Parotis Marginata</i> (Hampson,1893)
30	<i>Pycnarmon cibrata</i> (Fabricius,1794)
31	<i>Spoladae recurvalis</i> Fabricius, 1775
<b>08 Family DEPRESSARIIDAE</b>	
Subfamily ACRIINAE	
32	<i>Acria emarginella</i> (Donovan,1806)
Subfamily ETHMIINAE	
33	<i>Ethmia acontias</i> (Meyrick,1906)
34	<i>Ethmia assamensis</i> (Butler,1879)
35	<i>Ethmia hilarella</i> (Walker,1863)
Subfamily DEPRESSARIINAE	
36	<i>Psorosticha zizyphi</i> (Stainton,1859)
<b>09 Family DREPANIDAE</b>	
Subfamily DREPANINAE	
37	<i>Teldenia vestigiata</i> (Butler,1880)
38	<i>Thyatira batis</i> (Linnaeus,1758)
39	<i>Tridrepana albonotata</i> (Butler 1886)

SL. NO.	SPECIES
<b>10 Family EREBIDAE</b>	
Subfamily AGANAINAE	
40	<i>Asota caricae</i> Fabricius,1775
41	<i>Asota plaginota</i> (Butler,1875)
42	<i>Psimada quadripennis</i> Walker,1858
Subfamily ANOBINAE	
43	<i>Plecoptera ferrilineata</i> Swinhoe 1895
44	<i>Plecoptera reflexa</i> Guenée, 1852
Subfamily ARCTIINAE	
45	<i>Adites frigida</i> (Walker,1854)
46	<i>Aemene cf. taprobanis</i> Walker,1854
47	<i>Barsine orientalis</i> (Cerny,2009)
48	<i>Barsine linga</i> Moore,1859
49	<i>Barsine dharma</i> . Moore,1879
50	<i>Brunia antica</i> Walker,1854
51	<i>Ceryx godartii</i> (Boisduval 1829)
52	<i>Churinga ruffrons</i> (Moore,1878)
53	<i>Creatonotos transiens</i> (Walker,1855)
54	<i>Creatonotos gangis</i> (Walker,1855)

24. *Glyphodes bicolor*25. *Haritalodes dergata*26. *Nausinoe perspectata*



29. *Parotis Marginata*



30. *Pycnarmon cibratula*



31. *Spoladea recurvalis*

SL. NO.	SPECIES
55	<i>Cyana bianca</i> (Walker,1856)
56	<i>Cyana coccinea</i> (Moore,1878)
57	<i>Cyana perornata</i> (Walker,1854)
58	<i>Eilema cf. costalis</i> (Moore,1878)
59	<i>Eressa confinis</i> Walker,1854)
60	<i>Lyclene distribute</i> Walker,1862
61	<i>Lyclene obsolete</i> Moore,1878
62	<i>Macrobrochis gigas</i> Walker,1854
63	<i>Macotasa nubecula</i> (Moore,1879)
64	<i>Macotasa tortricoides</i> (Walker,1862)
65	<i>Mangina argus</i> (Kollar, [1847])
66	<i>Miltochrista dharma</i> Moore,1879
67	<i>Miltochrista terminospota</i> (Singh, Kirti & Joshi (2015)
68	<i>Olepa ricini</i> (Fabricius,1775)
69	<i>Siccia guttulosana</i> Walker,1863
70	<i>Spilosoma lubricipeda</i> (Linnaeus,1758)
71	<i>Spilosoma obliqua</i> (Walker,1855)
72	<i>Synatomoides imaon</i> (Cramer,1779)
73	<i>Trigonodes hyppasia</i> Cramer, 177
74	<i>Utetheisa lotrix</i> Cramer,1779

SL. NO.	SPECIES
<b>Subfamily BOLETOBIAE</b>	
75	<i>Cretonia vegetus</i> (Swinhoe,1885)
76	<i>Eublemma amabilis</i> (Saalmüller,1891)
77	<i>Eublemma olivacea</i> (Walker, [1858])
78	<i>Panilla poliochroa</i> Hampson,1914
79	<i>Zurobata vacillans</i> (Walker,1864)
<b>Subfamily CALPINAE</b>	
80	<i>Calyptra minuticornis</i> (Guenée,1852)
81	<i>Dierna strigata</i> (Moore,1867)
82	<i>Donda ornata</i> Moore,1883
83	<i>Eudocima phalonia</i> (Linnaeus,1763)
84	<i>Eudocima salaminia</i> (Cramer, [1777])
85	<i>Gesonia inscritia</i> Swinhoe 1885
86	<i>Lithosiopsis torsivena</i> Hampson,1895
87	<i>Oraesia emarginata</i> (Fabricius,1794)
88	<i>Oraesia rectistria</i> (Boisduval & Guenée, 1852)
89	<i>Plusiodonta coelonota</i> (Kollar,1844)
90	<i>Pseudogyrtona perversa</i> (Walker,1862)
91	<i>Rhesala imparata</i> Walker,1858

37. *Teldenia vestigiata*

39. *Tridrepana albonotata*

40. *Asota caricae*



41. *Asota plaginota*42. *Psimada quadripennis*47. *Barsine orientalis*

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SL. NO.	SPECIES
92	<i>Thalatta fasciosa</i> Moore, 1882
93	<i>Thalatta precedens</i> Walker, [1858]
	<b>Subfamily EREBINAЕ</b>
94	<i>Artena dotata</i> (Fabricius, 1794)
95	<i>Attatha ino</i> (Drury, 1782)
96	<i>Attatha regalis</i> (Moore, 1872)
97	<i>Bamra mundata</i> (Walker, 1858)
98	<i>Bastilla arcuata</i> Moore, 1877
99	<i>Bastilla crameri</i> Moore, 1885
100	<i>Chalciope hyppasia</i> (Cramer, 1779)
101	<i>Chalciope mygdon</i> (Cramer, [1777])
102	<i>Dysgonia algira</i> (Linnaeus, 1767)
103	<i>Dysgonia</i> sp. Hübner, [1823]
104	<i>Entomogramma torsa</i> Guenée, 1852
105	<i>Erebus caprimulgus</i> Fabricius, 1781
106	<i>Erebus crepuscularis</i> (Linnaeus, 1758)
107	<i>Erebus hieroglyphica</i> Drury, 1773
108	<i>Ericeia inangulata</i> (Guenée, 1852)
109	<i>Ericeia optatura</i> (Walker, 1858)

SL. NO.	SPECIES
110	<i>Erygia apicalis</i> Guenée, 1852
111	<i>Fodina cuneigera</i> (Butler, 1889)
112	<i>Fodina pallula</i> Guenée, 1852
113	<i>Fodina stola</i> (Guenée, 1852) <i>Hamodes propitia</i> (Guérin-Méneville, [1831])
115	<i>Hulodes caranea</i> (Cramer, [1780])
116	<i>Hypocala deflorata</i> (Fabricius, 1794)
117	<i>Hypocala rostrata</i> Fabricius, 1794
118	<i>Hypopyra vespertilio</i> (Fabricius, 1787)
119	<i>Hypersyphnoides punctosa</i> (Walker, 1865)
120	<i>Ischyja manlia</i> (Cramer, 1776)
121	<i>Ischyja marapok</i> Holloway, 2005
122	<i>Lacera alope</i> (Cramer, 1780)
123	<i>Lyncestis amphix</i> (Cramer, [1777])
124	<i>Mocis frugalis</i> (Fabricius, 1775)
125	<i>Mocis undata</i> Fabricius, 1775
126	<i>Ophiusa tirhaca</i> (Cramer, [1777])
127	<i>Ophiusa triphaenoides</i> (Walker, 1858)
128	<i>Pandesma quenavadi</i> Guenée, 1852

48 *Barsine linga*49. *Barsine dharma*52. *Churinga ruffrons*

53. *Creatonotos transiens*54. *Creatonotos gangis*56. *Cyana coccinea*

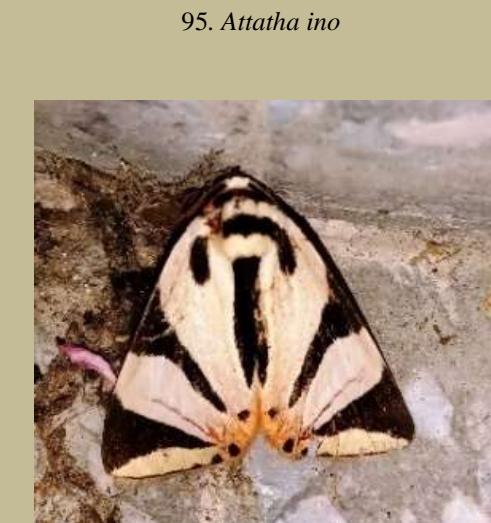
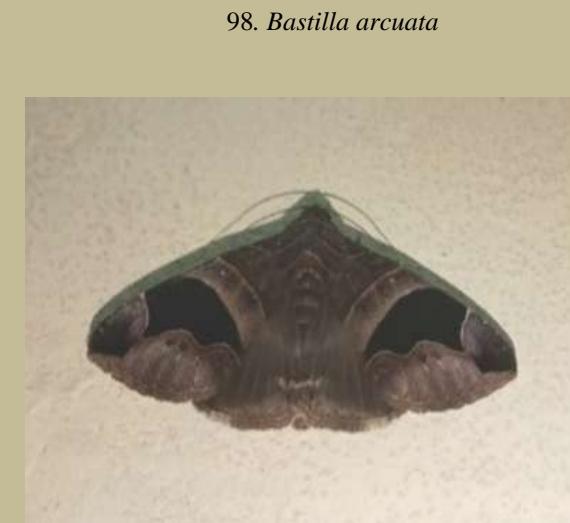
SL. NO.	SPECIES
129	<i>Pericyma umbrina</i> (Guenée,1852)
130	<i>Spirama helicina</i> (Hübner,[1831])
131	<i>Spirama retorta</i> Clerck,1764
132	<i>Spirama triloba</i> Guenée,1852
133	<i>Sympis rufibasis</i> Guenée,1852
134	<i>Thyas coronata</i> (Fabricius,1775)
135	<i>Thyas juno</i> (Dalman,1823)
136	<i>Trigonodes hyppasia</i> Cramer,1779 <b>Subfamily HERMINIINAE</b>
137	<i>Bertula dentilinea</i> (Hampson 1895)
138	<i>Hydrillodes lentalis</i> Guenée,1854
139	<i>Hydrillodes plicalis</i> (Moore,1867)
140	<i>Idia fulvipicta</i> (Butler,1889)
141	<i>Nodaria externalis</i> Guenée,1854
142	<i>Nodaria similis</i> (Moore,1882)
143	<i>Progonia oileusalis</i> (Walker,[1859]) <b>Subfamily HYPENINAE</b>
144	<i>Coarica fasciata</i> Moore,1882
145	<i>Dichromia occatus</i> (Moore,1882)
146	<i>Dichromia orosia</i> (Cramer,1913)

SL. NO.	SPECIES
147	<i>Dichromia triangularis</i> (Moore,1882)
148	<i>Harita nebulosa</i> (Moore,1881)
149	<i>Haritalopha biparticolor</i> Hampson,1895
150	<i>Hypena albesigna</i> (Moore,1882)
151	<i>Hypena conscritalis</i> Walker, [1866]
152	<i>Hypena iconicalis</i> Walker, [1859]
153	<i>Hypena ignotalis</i> (Walker,1859)
154	<i>Hypena masurialis</i> Guenée,1854
155	<i>Hypena nilgirica</i> Hampson,1891
156	<i>Hypena proboscidalis</i> (Linnaeus,1758)
157	<i>Hypena strigatus</i> Fabricius,1798
158	<i>Hypena sublividalis</i> Snellen,1880
159	<i>Mecistoptera velifera</i> (Swinhoe,1885)
160	<i>Rhynchina abducalis</i> Walker,1858
161	<i>Zekelita angulata</i> (Walker,1862) <b>Subfamily LYMANTRIINAE</b>
162	<i>Arctornis comma</i> (Hutton,1865)
163	<i>Arctornis l-nigrum</i> (Müller,1764)
164	<i>Arctornis lactea</i> Moore,1879
165	<i>Arna bipunctapex</i> (Hampson,1891)

59. *Eressa confinis*62. *Macrobrochis gigas*68. *Olepa ricini*

71. *Spilosoma obliqua*72 . *Synotomoides imao*79. *Zurobata vacillans*

SL. NO.	SPECIES
166	<i>Aroa plana</i> (Walker,1855)
167	<i>Artaxa digramma</i> Boisduval,1844
168	<i>Artaxa guttata</i> Walker,1855
169	<i>Artaxa inconcisa</i> (Walker,1865)
170	<i>Calliteara grotei</i> (Moore,1859)
171	<i>Euproctis cervina</i> (Moore,1877)
172	<i>Euproctis cf. vitellina</i> Kollar,1848
173	<i>Euproctis fraterna</i> (Moore,1883)
174	<i>Euproctis icilia</i> (Stoll,1993)
175	<i>Euproctis lunata</i> (Walker,1855)
176	<i>Euproctis signata</i> (Blanchard[1844])
177	<i>Laelia devestita</i> (Walker,1865)
178	<i>Laelia suffuse</i> (Walker,1855)
179	<i>Leucoma ochripes</i> (Moore,1879)
180	<i>Lymantria marginata</i> Walker,1855
181	<i>Lymantria mathura</i> Moore,[1866]
182	<i>Lymantria nigra</i> Moore,1888
183	<i>Lymantria obfuscata</i> Walker, 1865
184	<i>Lymantria semicinata</i> (Walker,1855)

94. *Artena dotata*95. *Attatha ino*98. *Bastilla arcuata*

99. *Bastilla crameri*105. *Erebis caprimulgus*107. *Erebis hieroglyphica*

SL. NO.	SPECIES
<b>Subfamily SCOLIOPTERYGINAE</b>	
202	<i>Anomis flava</i> (Fabricius,1775)
203	<i>Anomis figlina</i> Butler,1889
204	<i>Anomis fulvida</i> (Guenée,1852)
205	<i>Anomis lineosa</i> Walker,1865
206	<i>Anomis lyona</i> (Swinhoe,1919)
207	<i>Anomis mesogona</i> Walker[1858]
208	<i>Anomis sabulifera</i> (Guenée,1852)
<b>Subfamily TINOLIINAE</b>	
209	<i>Calesia dasypterus</i> Kollar,1844
<b>11 Family EUTELIIDAE</b>	
<b>Subfamily EUTELIINAE</b>	
210	<i>Chlumetia alternans</i> Moore,1882
211	<i>Chlumetia transversa</i> (Walker,1863)
212	<i>Eutelia blandiatrix</i> (Guenée,1852)
213	<i>Eutelia favillatrix</i> (Walker 1858)
214	<i>Marathyssa harmonica</i> (Hampson,1898)
215	<i>Penicillaria delatrix</i> Guenée,1852
216	<i>Penicillaria jocosatrix</i> Guenée,1852
217	<i>Penicillaria nugatrix</i> Guenée,1852

SL. NO.	SPECIES
<b>Subfamily STICTOPERINAE</b>	
218	<i>Lophoptera illucida</i> (Walker,1865)
219	<i>Lophoptera squammigera</i> Guenée,1852
<b>12 Family EUPTEROTIDAE</b>	
<b>Subfamily EUPTEROTINAE</b>	
220	<i>Eupterote asemos</i> (Bryk,1950)
221	<i>Eupterote balwanti</i> (Bhasin,1946)
222	<i>Eupterote fabia</i> (Cramer,1780)
223	<i>Eupterote geminata</i> (Walker,1855)
224	<i>Eupterote mollifera</i> Moore,1884
225	<i>Eupterote undata</i> (Blanchard,1844)
226	<i>Ganisa plana</i> Walker,1855
<b>13 Family GELECHIIDAE</b>	
<b>Subfamily APATETRINAE</b>	
227	<i>Semnóstoma barathrota</i> (Meyrick,1918)
<b>Subfamily DICHOMERIDINAE</b>	
228	<i>Anarsia melanoplecta</i> (Meyrick,1914)
229	<i>Dichomeris acuminate</i> (Staudinger, Kalchberg,1876)

13

112. *Fodina pallula*114 . *Hamodes propitia*115. *Hulodes caranea*

117. *Hypocala rostrata*118. *Hypopyra vespertilio*120. *Ischyja manlia*121. *Ischyja marapok*124. *Mocis frugalis*125. *Mocis undata*126. *Ophiusa tirhaca*130. *Spirama helicina*131. *Spirama retorta*134. *Thyas coronata*135. *Thyas juno*136. *Trigonodes hyppasia*152. *Hypena iconicalis*162. *Arctornis comma*167. *Artaxa digramma*168. *Artaxa guttata*169. *Artaxa inconcisa*170. *Calliteara grotei*181. *Lymantria mathura*183. *Lymantria obfuscata*186. *Olene inclusa*189. *Orgyia postica*190. *Perina nuda*194. *Somena scintillans*204. *Anomis fulvida*209. *Calesia dasypterus*219. *Lophoptera squammigera*

224. *Eupterote mollifera*225. *Eupterote undata*226. *Ganisa plana*

SL. NO.	SPECIES
230	<i>Dichomeris bisignella</i> Snellen,1885
231	<i>Dichomeris metrodes</i> (Meyrick,1913)
232	<i>Gelechia inferialis</i> (Meyrick,1918)
233	<i>Helcystogramma hibisci</i> (Stainton,1859)
234	<i>Heliangara macaritis</i> (Meyrick,1910)
235	<i>Idiophantis acanthopa</i> (Meyrick,1931)
<b>Subfamily GELECHIINAE</b>	
236	<i>Stegasta variana</i> (Meyrick,1904)
<b>14 Family GEOMETRIDAE</b>	
<b>Subfamily ENNOMINAE</b>	
237	<i>Abraxas determinate</i> (Warren,1894)
238	<i>Alcis variegata</i> Moore,1888
239	<i>Amblychia angeronaria</i> Guenée,1857
240	<i>Ascotis infixaria</i> Walker
241	<i>Ascotis selenaria</i> Denis & Schiff, 1775
242	<i>Biston suppressaria</i> (Guenée,1858)
243	<i>Boarmia</i> sp. Stephens, 1829
244	<i>Cambogia marginata</i> Warren

SL. NO.	SPECIES
245	<i>Chalicha minima</i> Warren
246	<i>Chiasmia eleonora</i> (Cramer,1780)
247	<i>Chiasmia emersaria</i> (Walker,1861)
248	<i>Cleora fraterna</i> (Moore,1888)
249	<i>Cusiala boarmoides</i> Moore,[1887]
250	<i>Cusiala raptaria</i> (Walker,1860)
251	<i>Dalima patularia</i> (Walker,1860)
252	<i>Dasyboarmia subpilosa</i> (Warren,1894)
253	<i>Diplurodes shoreae</i> (Prout,1934)
254	<i>Ectropis bhurmitra</i> (Walker,1860)
255	<i>Fascellina chromataria</i> Walker,1860
256	<i>Gonodontis clelia</i> (Cramer,1780)
257	<i>Heterostegane subtessellata</i> (Walker, [1863])
258	<i>Heterostegane tritocampsis</i> (Prout,1934)
259	<i>Heterostegane urbica</i> (Swinhoe,1885)
260	<i>Hyperythra lutea</i> (Stoll,[1781])
261	<i>Hyperythra phoenix</i> (Swinhoe,1891)
262	<i>Hypomecis infixaria</i> (Walker,1860)
263	<i>Hypomecis transissa</i> Walker,1860

239. *Amblychia angeronaria*242. *Biston suppressaria*246. *Chiasmia eleonora*

247. *Chiasmia emersaria*251. *Dalima patularia*252. *Dasyboarmia subpilosa*

SL. NO.	SPECIES
264	<i>Hypomecis procursaria</i> Walker,1860
265	<i>Hyposidra talaca</i> (Walker,1860)
266	<i>Lomographa</i> sp. Hübner,[1825]
267	<i>Ourapteryx clara</i> Matsumura,1910
268	<i>Ourapteryx picticaudata</i> (Walker,1860)
269	<i>Psilalcis inceptaria</i> (Walker,1866)
270	<i>Petelia medardaria</i> (Herrich-Schäffer, 1856)
271	<i>Rhomborista devexata</i> (Walker,1861)
272	<i>Scardamia metallaria</i> (Guenée,1857)
273	<i>Zamarada symmetra</i> Fletcher 1974
<b>Subfamily GEOMETRINAE</b>	
274	<i>Agathia gemma</i> (Swinhoe,1892)
275	<i>Agathia hilarata</i> (Guenée,1858)
276	<i>Agathia lycaenaria</i> (Kollar,1848)
277	<i>Comibaena cassidara</i> (Guenée,1857)
278	<i>Chlorissa punctifimbria</i> (Warren,1896)
279	<i>Chloromachia augustaria</i> (Oberthür,1916)
280	<i>Chloroclystis subcostalis</i> (Hampson,1893)
281	<i>Chlorozancla falcatus</i> (Butler,1889)

SL. NO.	SPECIES
282	<i>Dindica polyphaenaria</i> (Guenée,1857)
283	<i>Episothalma robustaria</i> (Guenée,1857)
284	<i>Hemithea costipunctata</i> (Moore,1867)
285	<i>Hemithia tritonaria</i> (Walker,[1863])
286	<i>Hemithea</i> sp. Duponchel,1829
287	<i>Herochroma cristata</i> (Warren,1894)
288	<i>Herochroma ochreipicta</i> (Swinhoe,1905)
289	<i>Maxates goniaria</i> (Felder & Rogenhofer, 1875)
290	<i>Mixochlora vittata</i> (Moore,1867)
291	<i>Omphacodes directa</i> (Walker,1861)
292	<i>Ornithospila avicularia</i> (Guenée,1857)
293	<i>Pelagodes falsaria</i> (Prout,1912)
294	<i>Pingasa ruginaria</i> (Guenée, 1857)
295	<i>Pingasa tephrosiaria</i> (Guenee,1858)
296	<i>Protuliocnemis biplagiata</i> Moore,1887
297	<i>Tanaorhinus viridiluteatus</i> (Walker,1861)
298	<i>Thalassodes quadraria</i> Guenee,1857
299	<i>Spaniocentra lyra</i> (Swinhoe,1982)

255. *Fascellina chromataria*259. *Heterostegane urbica*262. *Hypomecis infixaria*



263. *Hypomecis transcissa*



264. *Hypomecis procursaria*



265. *Hyposidra talaca*



267. *Ourapteryx clara*



274. *Agathia gemma*



283. *Episothalma robustaria*



287. *Herochroma cristata*



288. *Herochroma ochreipicta*



290. *Mixochlora vittata*



292. *Ornithospila avicularia*



293. *Pelagodes falsaria*



294. *Pingasa ruginaria*



296. *Protuliocnemis biplagiata*



298. *Thalassodes quadraria*



299. *Spaniocentra lyra*



307. *Chrysocraspeda olearia*



310. *Problepsis vulgaris*

325. *Lebeda nobilis*327. *Trabala vishnou*330. *Suana concolor*

SL. NO.	SPECIES
<b>Subfamily LARENTIINAE</b>	
300	<i>Calluga costalis</i> (Moore,1887)
301	<i>Cidaria</i> sp. Treitschke,1825
302	<i>Collix ghosha</i> Walker,1862
303	<i>Idiochlora caudularia</i> (Guenee,1857)
304	<i>Photoscotosia miniosata</i> (Warren,1893)
305	<i>Ptochophyle togata</i> (Fabricius,1798)
<b>Subfamily STERRHINAE</b>	
306	<i>Chrysocraspeda abhadra</i> Walker,1861
307	<i>Chrysocraspeda olearia</i> (Guenée, 1857)
308	<i>Anisephyra ocularia</i> (Fabricius,1775)
309	<i>Antitrygodes cuneilinea</i> (Walker,1863)
310	<i>Problepsis vulgaris</i> (Butler,1889)
311	<i>Scopula actuaria</i> (Walker,1861)
312	<i>Scopula adeptaria</i> (Walker,1861)
313	<i>Scopula cleoraria</i> (Walker,1861)
<b>15 Family GRACILARIIDAE</b>	
<b>Subfamily ACROCERCOPINAE</b>	
314	<i>Acrocercops chrysophila</i> Meyrick 1937
315	<i>Acrocercops chrysoplitis</i> (Meyrick, 1937)
316	<i>Acrocercops hierocosma</i> (Meyrick, 1912)

SL. NO.	SPECIES
<b>Subfamily GRACILLARIINAE</b>	
317	<i>Acrocercops myriogramma</i> (Meyrick 1937)
318	<i>Acrocercops phaeospora</i> (Meyrick,1916)
319	<i>Acrocerops terminaliae</i> (Stainton,1862)
320	<i>Gibbovalva quadrifasciata</i> (Stainton,1862)
<b>Subfamily LITHOCOLLETINAE</b>	
321	<i>Caloptilia octopunctata</i> (Turner,1894)
322	<i>Parectopa zehntneri</i> (Snellen,1901)
<b>Subfamily LITHOCOLLETINAE</b>	
323	<i>Cameraria virgulata</i> (Meyrick,1914)
<b>16 Family HYBLAEIDAE</b>	
324	<i>Hyblaea puera</i> (Cramer,1777)
<b>17 Family LASIOCAMPIDAE</b>	
<b>Subfamily LASIOCAMPINAE</b>	
325	<i>Lebeda nobilis</i> Walker,1855
326	<i>Trabala krishna</i> , Roepke,1951
327	<i>Trabala vishnou</i> (Lefèvre,1827)
<b>Subfamily PINARINAE</b>	
328	<i>Dendrolimus</i> sp. Germar,1812
329	<i>Kunugia placida</i> Moore 1879
<b>Subfamily GASTROPACHINAE</b>	
330	<i>Suana concolor</i> (Walker,1855)

249. *Cusiala boarmoides*285. *Hemithia tritonaria*306. *Chrysocraspeda abhadra*



344. *Episteme adulatrix*



346. *Callyna jugaria*



347. *Callyna monoleuca*

SL. NO.	SPECIES
<b>18 Family LIMACODIDAE</b>	
Subfamily LIMACODINAE	
331	<i>Altha nivea</i> Walker,1862
332	<i>Cania sericea</i> Walker,1855
333	<i>Miresa decedens</i> Walker,1855
334	<i>Parasa lepida</i> (Cramer,1799)
335	<i>Scopelodes venosa</i> Walker,1855
336	<i>Thosea cana</i> (Walker 1865)
<b>19 Family LYONETIIDAE</b>	
Subfamily CEMIOSTOMINAE	
337	<i>Leucoptera sphenograpta</i> , Meyrick,1911
<b>20 Family NOCTUIDAE</b>	
Subfamily ACONTIINAE	
338	<i>Acontia marmoralis</i> (Fabricius, 1794)
339	<i>Emmelia lunana</i> (Fabricius,1794)
340	<i>Oxytrita bipars</i> (Hampson,1907)
Subfamily ACRONICTINAE	
341	<i>Arcilasisa sobria</i> Walker,1865

343. *Aegocera venulia*



350. *Chasmina candida*



354. *Ramadasa pavo*

SL. NO.	SPECIES
Subfamily AEDIINAE	
342	<i>Aedia leucomelas</i> (Linnaeus,1758)
Subfamily AGARISTINAE	
343	<i>Aegocera venulia</i> (Cramer,[1777])
344	<i>Episteme adulatrix</i> (Kollar,[1844])
Subfamily AMPHIPYRINAE	
345	<i>Callyna costiplaga</i> Moore,1885
346	<i>Callyna jugaria</i> (Walker 1858)
347	<i>Callyna monoleuca</i> (Walker,1858)
348	<i>Iambia</i> sp. Walker,1863
Subfamily BAGISARINAE	
349	<i>Androlymnia emarginata</i> (Hampson,1891)
350	<i>Chasmina candida</i> (Walker,1865)
351	<i>Chasmina judicata</i> (Walker,1858)
352	<i>Chasmina tibialis</i> (Fabricius,1775)
353	<i>Chrysodeixis chalcites</i> (Esper, 1789)
354	<i>Ramadasa pavo</i> Walker,1856
355	<i>Sphragifera rejecta</i> (Fabricius,1775)
356	<i>Xanthodes intersepta</i> Guenée,1852
357	<i>Xanthodes transversa</i> Guenée,1852

366. *Amyna axis*374. *Athetis transversa*377 . *Helicoverpa armigera*

SL. NO.	SPECIES
<b>Subfamily BOLETOBIINAE</b>	
358	<i>Attonda adspersa</i> (Felder & Rogen., 1874)
359	<i>Autoba silicula</i> (Swinhoe,1897)
<b>Subfamily CONDICINAE</b>	
360	<i>Acosmetia chinensis</i> (Wallengren,1860)
361	<i>Condica albomaculata</i> (Moore,1867)
362	<i>Condica capensis</i> (Walker,1857)
363	<i>Condica dolorosa</i> (Walker,1865)
<b>Subfamily ERIOPINAE</b>	
364	<i>Callopistria rivularis</i> (Walker,1858)
<b>Subfamily EULEPIDOTINAE</b>	
365	<i>Anticarsia irrorata</i> (Fabricius, 1781)
<b>Subfamily EUSTROTIINAE</b>	
366	<i>Amyna axis</i> (Guenée,1852)
367	<i>Amyna natalis</i> (Walker, [1859])
368	<i>Hiccodia dosaroides</i> Moore,1882
369	<i>Ozarba brunnea</i> (Leech,1900)
370	<i>Ozarba punctigera</i> Walker,1865
371	<i>Ozarba</i> sp. Walker, 1865
<b>Subfamily HADENINAE</b>	
372	<i>Athetis (Proxenus)bipuncta</i> (Snellen,1886)

SL. NO.	SPECIES
373	<i>Athetis (Proxenus) cognata</i> (Moore,1882)
374	<i>Athetis transversa</i> (Walker,1858)
<b>Subfamily HELIOTHINAE</b>	
375	<i>Adisura atkinsoni</i> (Moore 1881)
376	<i>Adisura marginalis</i> (Walker,1858)
377	<i>Helicoverpa armigera</i> (Hubner,1808)
<b>Subfamily NOCTUINAE</b>	
378	<i>Agrotis epsilon</i> (Hüfnagel,1766)
379	<i>Agrotis spinifera</i> (Hübner,1808)
380	<i>Arcilasisa sobria</i> Walker,1865
381	<i>Diarsia ochracea</i> (Walker,1865)
382	<i>Diarsia stictica</i> (Poujade,1887)
383	<i>Dichagyris stentzi</i> (Lederer,1853)
384	<i>Euxoa intracta</i> (Walker,[1857])
385	<i>Leucania loreyi</i> (Duponchel,1827)
386	<i>Mythimna separata</i> (Walker,1865)
387	<i>Mythimna unipuncta</i> (Haworth,1809)
388	<i>Polytela gloriosae</i> (Fabricius,1775)
389	<i>Sasunaga tenebrosa</i> (Moore, 1867)
390	<i>Spodoptera abyssinica</i> (Guenée, 1852)

391. *Spodoptera litura*400. *Thysanoplusia orichalcea*417. *Maurilia iconica*

SL. NO.	SPECIES
391	<i>Spodoptera litura</i> (Fabricius, 1775)
392	<i>Spodoptera mauritia</i> (Boisduval, 1833)
393	<i>Trachea indistans</i> , Hampson, 1908
394	<i>Xestia c-nigrum</i> (Linnaeus, 1758)
	<b>Subfamily PANTHEINAE</b>
395	<i>Trichosea champa</i> (Moore, 1879)
	<b>Subfamily PLUSIINAE</b>
396	<i>Anadevidia peponis</i> (Fabricius, 1775)
397	<i>Autographa nigrisigna</i> (Walker, 1858)
	<i>Ctenoplusia albostriata</i> (Bremer & Grey, 1853)
398	
399	<i>Ctenoplusia placida</i> (Moore, [1884])
400	<i>Thysanoplusia orichalcea</i> (Fabricius, 1775)
401	<i>Trichoplusia ni</i> (Hubner, 1803)
	<b>Subfamily STICTOPTERINAE</b>
402	<i>Odontodes aleuca</i> Guenée 1852
	<b>Subfamily XYLENINAE</b>
403	<i>Caradrina aspersa</i> Rambur, 1834

SL. NO.	SPECIES
	<b>21 Family NOLIDAE</b>
	<b>Subfamily BLENINAE</b>
404	<i>Beana terminigera</i> (Walker, 1858)
405	<i>Blenina quinaria</i> Moore, 1882
	<b>Subfamily CHLOEPHORINAE</b>
406	<i>Aiteta apriformis</i> (Walker, 1857)
407	<i>Aiteta rufoflava</i> (Walker, [1857])
408	<i>Carea angulate</i> (Fabricius, 1793)
409	<i>Carea subtilis</i> Walker, 1858
410	<i>Churia nigrisigna</i> (Moore, 1881)
411	<i>Etanna breviuscula</i> (Walker, 1863)
412	<i>Gabala polyspilalis</i> (Walker, 1866)
413	<i>Garella rotundipennis</i> (Walker, 1863)
414	<i>Garella ruficirra</i> (Hampson, 1905)
415	<i>Giaura sceptica</i> (Swinhoe, 1885)
416	<i>Labanda semipars</i> (Walker, 1858)
417	<i>Maurilia iconica</i> (Walker, [1858])
418	<i>Nycteola sinuosa</i> (Moore, 1888)

423. *Selepa celtis*431. *Westermannia superba*441. *Neocerire wisei*

SL. NO.	SPECIES
<b>Subfamily EARIADINAE</b>	
419	<i>Earias cupreoviridis</i> (Walker,1862)
420	<i>Earias fabia</i> (Stoll,1781)
421	<i>Earias insulana</i> (Boisduval,1833)
422	<i>Earias luteolaria</i> (Hampson,1891)
<b>Subfamily ELIGMINAE</b>	
423	<i>Selepa celtis</i> (Moore,1860)
424	<i>Selepa discigera</i> (Walker,[1863])
425	<i>Selepa docilis</i> (Butler,1881)
426	<i>Selepa</i> sp.Moore, 1858
<b>Subfamily NOLINAE</b>	
427	<i>Nola internella</i> (Walker,1865)
<b>Subfamily RISOBINAE</b>	
428	<i>Risoba obstructa</i> Moore,1881
429	<i>Risoba prominens</i> Moore,1881
<b>Subfamily WESTERMANNIINAE</b>	
430	<i>Miaromima coelisigna</i> (Hampson,1895)
431	<i>Westermannia superba</i> Hübner,1823

SL. NO.	SPECIES
<b>22 Family NOTODONTIDAE</b>	
<b>Subfamily BIRETINAE</b>	
432	<i>Porsica curvaria</i> (Hampson,1893)
433	<i>Porsica ingens</i> Walker,1866
434	<i>Ramesa tosta</i> Walker 1855
<b>Subfamily DUDUSINAE</b>	
435	<i>Gargetta costigera</i> , Walker,1865
<b>Subfamily HETEROCAMPINAE</b>	
436	<i>Stauropus alternus</i> (Walker,1855)
437	<i>Stenadonta radialis</i> Gaede 1930
<b>Subfamily NOTODONTINAE</b>	
438	<i>Cerura himalayana</i> (Moore,1888)
439	<i>Cerura prasana</i> (Moore,1865)
440	<i>Chadisra bipars</i> Walker,1862
441	<i>Neocerura wisei</i> (Swinhoe,1891)
442	<i>Notodonta bhasini</i> Bryk 1950
443	<i>Rosama plusioides</i> Moore,1879
444	<i>Teleclita strigata</i> (Moore,1879)

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449 .*Clostera cupreata*450. *Clostera fulgurita*451. *Ginshachia gemmifera*

454. *Salma* sp.457. *Actias selene*458. *Samia canningii*

SL. NO.	SPECIES
<b>Subfamily PHALERINAE</b>	
445	<i>Phalera procera</i> Felder, 1874
446	<i>Phalera raya</i> (Moore, 1859)
447	<i>Phalera sangana</i> (Moore, 1859)
<b>Subfamily PTILODONINAE</b>	
448	<i>Allodontoides dentata</i> (Hampson, 1893)
<b>Subfamily PYGAERINAE</b>	
449	<i>Clostera cupreata</i> Butler, 1866
450	<i>Clostera fulgurita</i> (Walker, 1865)
451	<i>Desmeocraera perdicula</i> Bryk, 1950
452	<i>Ginshachia gemmifera</i> (Moore, 1877)
<b>23 Family OECOPHORIDAE</b>	
<b>Subfamily OECOPHORINAE</b>	
453	<i>Tonica niviferana</i> (Walker, 1864)
<b>24 Family PYRALIDAE</b>	
<b>Subfamily EPIPASCHIINAE</b>	
454	<i>Salma</i> sp. Walker, 1863

SL. NO.	SPECIES
<b>25 Family PSYCHIDAE</b>	
<b>Subfamily OIKETICINAE</b>	
455	<i>Cryptothelea variegata</i> Snellen [1991]
<b>Subfamily TYPHONIINAE</b>	
456	<i>Typhonia autochthonia</i> (Meyrick, 1931)
<b>26 Family SATURNIIDAE</b>	
<b>Subfamily SATURNIINAE</b>	
457	<i>Actias selene</i> (Hübner, 1807)
458	<i>Samia canningii</i> (Hutton, 1860)
<b>27 Family SESIIDAE</b>	
<b>Subfamily SESIINAE</b>	
459	<i>Anthedonella ignicauda</i> (Hampson, 1919)
<b>28 Family SPHINGIDAE</b>	
<b>Subfamily MACROGLOSSINAE</b>	
460	<i>Acosmeryx anceus</i> (Stoll, [1781])
461	<i>Cephonodes hylas</i> (Linnaeus, 1771)

461. *Cephonodes hylas*465. *Eupanacra mydon*466. *Hippotion rosetta*

469. *Nephela hespera*471. *Rhagastis olivacea*472. *Theretra alecto*

SL. NO.	SPECIES
462	<i>Cephalodes picus</i> (Cramer, 1777)
463	<i>Daphnis hypothous</i> (Cramer, 1780)
464	<i>Daphnis nerii</i> (Linnaeus, 1758)
465	<i>Eupanacra mydon</i> (Walker, 1856)
466	<i>Hippotion rosetta</i> (Swinhoe, 1892)
467	<i>Macroglossum bombylans</i> (Boisduval, 1875)
468	<i>Macroglossum stellatarum</i> (Linnaeus, 1758)
469	<i>Nephela hespera</i> (Fabricius, 1775)
470	<i>Pergesa acteus</i> (Cramer, 1779)
471	<i>Rhagastis olivacea</i> (Moore, 1872)
472	<i>Theretra alecto</i> (Linnaeus, 1758)
473	<i>Theretra clotho</i> (Drury, 1773)
474	<i>Theretra nessus</i> (Drury, 1773)
475	<i>Theretra oldenlandiae</i> (Fabricius, 1775)
Subfamily SPHINGINAE	
476	<i>Acherontia lachesis</i> (Fabricius, 1798)
477	<i>Acherontia styx</i> (Westwood, 1847)
478	<i>Agrius convolvuli</i> (Linnaeus, 1758)
479	<i>Psilogramma casuarinae</i> (Walker, 1856)

476. *Acherontia lachesis*

SL. NO.	SPECIES
	Subfamily SMERINTHINAE
480	<i>Ambulyx liturata</i> (Butler, 1875)
481	<i>Marumba dyras</i> (Walker, 1856)
482	<i>Polyptychus trilineatus</i> Moore, 1888
483	<i>Sataspes scotti</i> (Jordan, 1926)
	29 Family TINEIDAE
	Subfamily MYRMECOZELINAE
484	<i>Gerontha captiosa</i> Walker, 1864
	Subfamily TINEINAE
485	<i>Monopis monachella</i> (Hubner, 1796)
	30 Family TORTRICIDAE
	Subfamily CHLIDANOTINAE
486	<i>Lopharcha chalcophanes</i> Meyrick, 1931
	Subfamily OLETHREUTINAE
487	<i>Acanthocita conciliata</i> (Meyrick, 1920)
488	<i>Acroclita cheradota</i> (Meyrick, 1912)
489	<i>Acroclita vigescens</i> (Meyrick, 1920)
490	<i>Andrioplecta pulverula</i> (Meyrick, 1912)

503. *Pandemis dumetana*



506. *Orudiza protheclaria*



509. *Pseudomicronia advocataria*



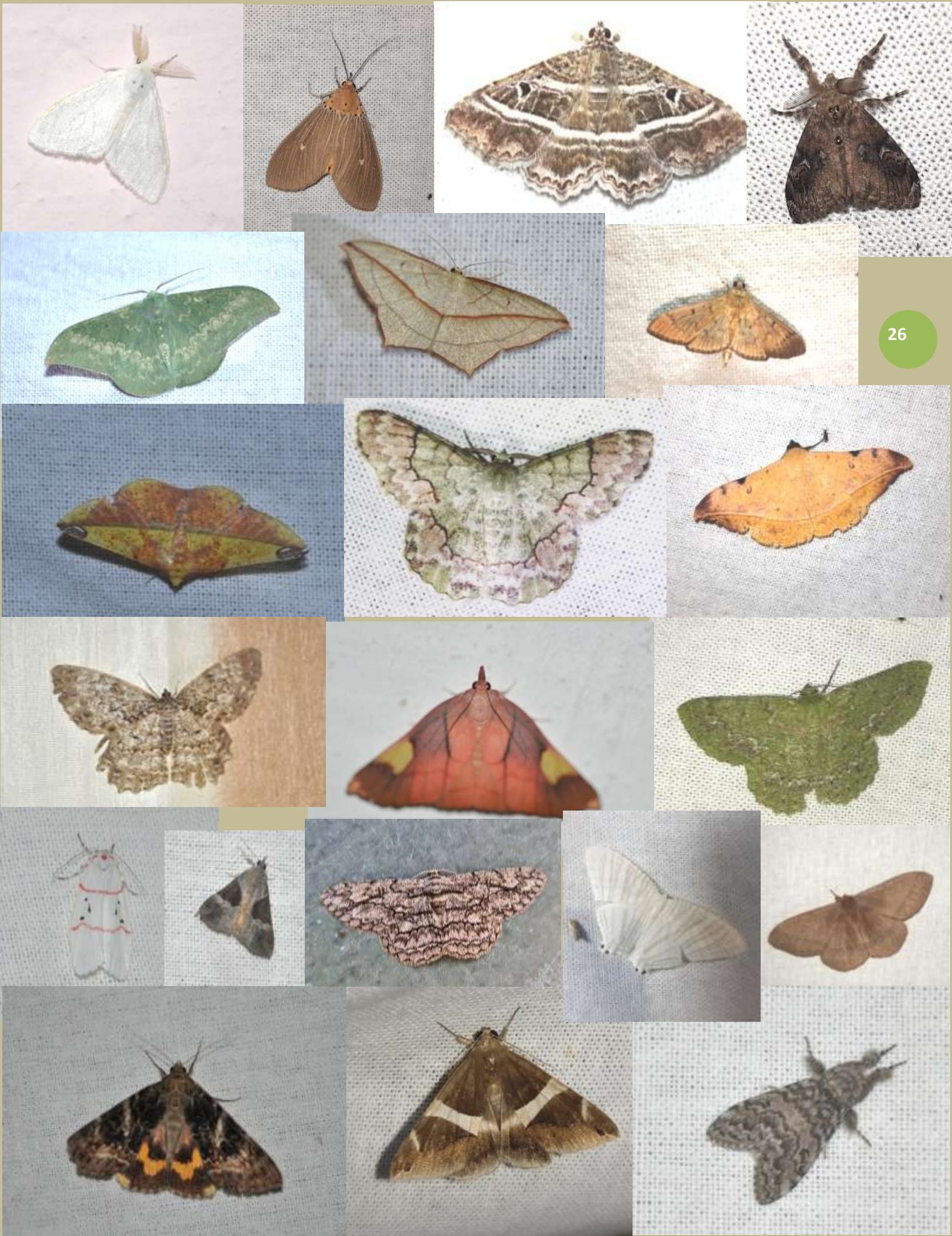
512. *Eterusia aeeda*

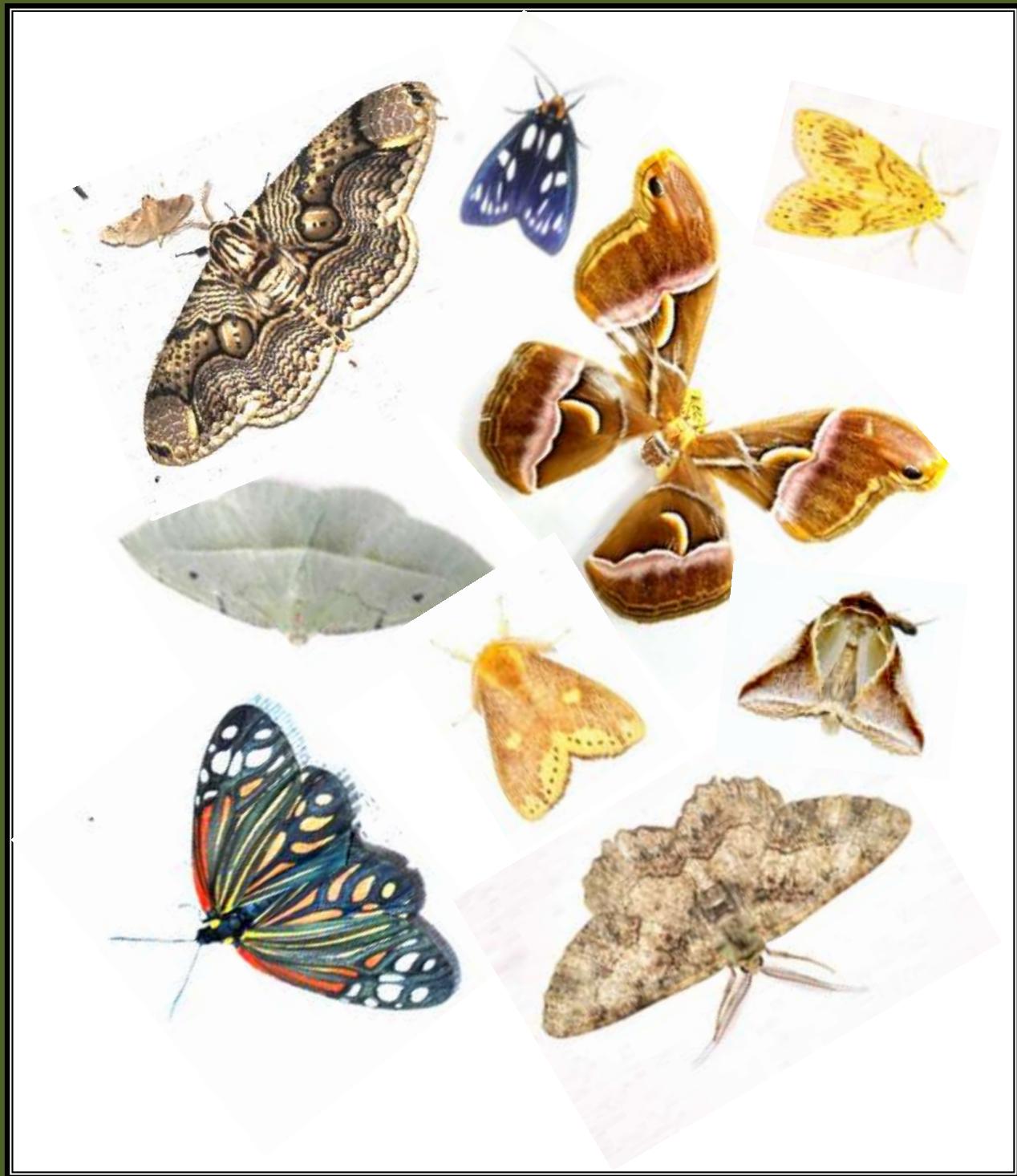
SL. NO.	SPECIES
491	<i>Cydia jaculatrix</i> Meyrick,1910
492	<i>Dudua aprobola</i> (Meyrick,1886)
493	<i>Eucosma solidata</i> (Meyrick,1912)
494	<i>Eucoenogenes melanancalis</i> (Meyrick,1937)
495	<i>Microsarotis palamedes</i> (Meyrick,1916)
496	<i>Ophiorrhabda cellifera</i> (Meyrick, 1912)
497	<i>Strepsicrates rhothia</i> Meyrick,1910
	<b>Subfamily TORTRICINAE</b>
498	<i>Archips micaceana</i> Walker 1863
499	<i>Archips solida</i> (Meyrick,1908)
500	<i>Epagoge retractana</i> (Walker)
501	<i>Homona coffearia</i> (Nietner,1861)
502	<i>Meridemis invalidana</i> (Walker,1863)
503	<i>Pandemis dumetana</i> (Treitschke, 1825)
	<b>31 Family URANIIDAE</b>
	<b>Subfamily EPIPLEMINAE</b>
504	<i>Epiplema fulvilinea</i> (Hampson,1891)
505	<i>Epiplema ruptaria</i> Moore,1883
506	<i>Orudiza protheclaria</i> Walker,1861

SL. NO.	SPECIES
	<b>Subfamily MICRONIINAE</b>
507	<i>Micronia aculeata</i> Guenée,1857
508	<i>Pseudomicronia</i> sp. Moore,[1887]
509	<i>Pseudomicronia advocataria</i> (Walker, 1861)
	<b>32 Family YPONOMEUTIDAE</b>
510	<i>Atteva fabriciella</i> (Swederus,1787)
	<b>33 Family ZYGAENIDAE</b>
	<b>Subfamily CHALCOSINAE</b>
511	<i>Histia flabellicornis</i> (Fabricius,1775)
512	<i>Eterusia aeeda</i> (Linnaeus, 1763)
513	<i>Trypanophora semihyalina</i> Kollar,[1844]
	<b>Subfamily PROCRIDINAE</b>
514	<i>Lophosoma cuprea</i> (Walker,1856)

[Reference: \*Roonwal,M.L., R.N. Mathur, G.D. Bhasin, P.N. Chatterjee, P.K. Sen-Sarma, Balwant Singh, Avinash Chandra, R.S. Thapa and Kumar Krishna (1956). A Systematic Catalogue of the main identified Entomological collection at the Forest Research Institute, Dehradun. Parts 22-38. (Orders Neuroptera, Mecoptera, Trichoptera and Lepidoptera). Indian Forest Leaflet No. 121 (Part 4). 197-540pp].







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