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COMMUNICATION

A REPORT ON THE MOTH (LEPIDOPTERA: HETEROCERA) DIVERSITY OF KAVVAI RIVER BASIN IN KERALA, INDIA

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INTRODUCTION

Kavvai (or Kavvayi) river is one among the 15 rivers which originates from the midlands of Kerala, India. It is located between 12.084°–12.245°N & 75.082°–75.333°E. The river emerges from the Cheemeni laterite hills at an elevation of 119m. The river is 31km long and directly flows into the Kavvayi backwater which is connected to the Arabian Sea. The river basin is a typical laterite biotope of northern Kerala which is a topographically complex, biodiversity-rich, fragmented, and densely populated cultural landscape spread over an area of 164.76km² falling under nine local administrative bodies in the districts of Kannur and Kasaragode. Even though the Kavvai River is prominent among the 15 rivers originating from the midlands of Kerala, there is no reserved or protected forest in the river basin which is composed of semi-natural landscapes such as lateritic hillocks, sacred groves, eco-groves (Kaanams), riverine vegetation and mangroves, cultural landscape such as wetland cultivation, plantations, homesteads with mixed cultivation and other agro-eco systems and a small proportion of artificial landscapes (Figure 1). In the present study, attempts have been made to document the moth diversity of different habitats in the Kavvai River basin.

MATERIAL AND METHODS

The sampling was carried out during three different seasons: pre-monsoon (February–May), monsoon (June–September), and post-monsoon (October–January) seasons at six locations (Table 1) in the Kavvai River basin —sacred groves, eco -groves (Kaanam), lateritic exposed area, wetland, and mixed-cultivation areas— from 2015–2017 (Figure 1). Sampling of moths was undertaken using a white cloth of 4 x 1.3 m, illuminated with a 20-Watt UV fluorescent tube connected to a portable UPS with a rechargeable battery of 50VA/36W (Image 329). Moths were collected 18.00–06.00 h for two consecutive nights in each season in all locations. In addition, immature stages of moths were also collected and reared in the laboratory (Image 330) to confirm the species. The moths collected were photographed and subsequently identified using the reference collection at Kerala Forest Research Institute (KFRI) and available literature including Hampson (1892–1896), Bell & Scott (1937), Zimmerman (1978), Barlow (1982), Holloway (1983–2011), Robinson et al. (1994), Kendrick (2002), Solovyev & Witt (2009), Mathew (2010), Irungbam et

al. (2017), Sondhi et al. (2018), and Subhalaxmi (2018). Classification of moths at higher taxonomic levels was done based on Van Nieuwerkerken et al. (2011), and for nomenclature aspects at species and genus levels, LEPINDEX (Beccaloni et al. 2003) was consulted.

RESULTS

In the present study, 1,060 specimens (750 adults and 310 larvae) were collected which belonged to 503 species (343 moths were identified to the species level and another 160 to the genus level) under 371 genera belonging to 42 families were recored (Appendix I, Images 1–328). All the specimens have been deposited in the Insect collection department of Kerala Forest Research Institute.

Among the moths collected, Noctuoidea (195 species of which 45 up to generic level) has the highest diversity followed by Pyraloidea (118 species; 39 up to generic level), Geometroidea (67 species; 20 up to generic level), Gelechioidea (23 species; 13 up to generic level), Bombycoidea (22 species; one up to generic level), Zygaenoidea (18 species; eight up to generic level), Tortricidae (18 species; 10 up to generic level), Tineoidea (nine species; five up to generic level) Pterophoroidea (six species; five up to generic level), Thyridoidea (six species; five up to generic level), Lasiocampoidea (four species; two up to generic level), Yponomeutoidea (four species; two up to generic level), Drepanoidea (four species; one up to generic level), Cossidae (three species; one up to generic level), Choreutoidea (two species; two up to generic level), Gracillarioidea (two species; one up to generic level) and Alucitoidea and Hyblaeoidea are represented by single species (Table 3; Figure 2).

Among the families, Erebidae showed the highest number of genera (92) and species (128) followed by Crambidae (66 genera, 94 spp.), Geometridae (43 genera, 60 spp.), Noctuidae (23 genera, 36 spp.), Pyralidae (23 genera, 23 spp.), Nolidae (11 genera, 18 spp.), Tortricidae (12 genera, 18 spp.), Limacodidae (13 genera, 16 spp.), and Gelechiidae (11 genera, 17 spp.).

DISCUSSION

Kavvai River basin is a typical lateritic biotope which holds various ecological units such as lateritic vegetation, sacred groves, eco groves, riverine vegetation, mangroves, wetlands, and agro-ecosystems. Each

Figure 1. Kavvai River study area showing critical ecosystems.

Table 1. Sampling locations.

Location	Latitude	Longitude	Place name
L1	12.230771	75.225128	Vannathykkanam
L2	12.230078	75.234553	ITP Cheemeni
L3	12.220838	75.227252	Oyolam
L4	12.153555	75.201136	Kuniyan
L5	12.139263	75.155611	Edayilakkad
L6	12.206677	75.255838	Velichamthoodu

of these ecological units have various micro habitats also. Even though the region is highly fragmented, the diversity of flora, birds, amphibians, and spiders are high in the region (Das et al. 2014; Sreejith et al. 2015). The butterfly diversity study in the river basin during 2013–2015 recorded 140 species of butterflies belonging to 96 genera of six families (Dhaneesh et al. 2017). Generally, the diversity of insects and the diversity of angiosperms in a landscape show positive correlation since plants provide food, shelter, sites for mating, and oviposition to insects (Leps et al. 2001). The result of the

Table 2. Moth diversity in protected forests of Kerala.

	Protected area	Moth species recorded	Number of families	Reference
1	Silent Valley NP	318	19	Mathew & Rahmathulla 1995
2	Parambikulam NP	277	20	Sudheendrakumar & Mathew 1999
3	Shendurney WS	129	11	Mathew et al. 2004a
4	Peppara WS	87	7	Mathew et al. 2004b
5	PeechiVazhani WS	113	21	Mathew et al. 2005
6	Neyyar WS	90	9	Mathew et al. 2007

NP—National Park | WS—Wildlife Sanctuary

present study also supports this hypothesis. According to landuse or land cover pattern of the study area, the river basin has 78.5% of cultural landscape, 15.4% of semi natural landscape, and 6% of artificial landscapes (Alex 2018). Moth diversity of several forest patches in Kerala has already been made (Table 2) and the results

Table 3. Composition of moths collected from the Kavvai River basin.

	Super family	Family	Genera	Species
1	Alucitoidea	Alucitidae	1	1
2	Bombycoidea	Bombycidae	1	1
		Eupterotidae	2	6
		Saturniidae	3	3
		Sphingidae	9	12
3	Choreutoidea	Choreutidae	2	2
4	Cossoidea	Brachodidae	1	2
		Cossidae	1	1
5	Drepanoidea	Drepanidae	3	4
6	Gelechioidea	Autostichidae	1	1
		Blastobasidae	1	1
		Cosmopterigidae	4	4
		Gelechiidae	7	10
		Lecithoceridae	1	1
		Oecophoridae	1	1
		Scythrididae	1	1
		Stathmopodidae	2	3
		Symmocidae	1	1
7	Geometroidea	Geometridae	43	60
		Uraniidae	6	7
8	Gracillarioidea	Gracillariidae	2	2
9	Hyblaeoidea	Hyblaeidae	1	1
10	Lasiocampoidea	Lasiocampidae	3	4
11	Noctuoidea	Erebidae	92	128
		Euteliidae	2	2
		Noctuidae	23	36
		Nolidae	11	18
		Notodontidae	9	11
12	Pterophoroidea	Pterophoridae	6	6
13	Pyraloidea	Crambidae	66	94
		Pyralidae	23	24
14	Thyridoidea	Thyrididae	5	6
15	Tineoidea	Eriocottidae	1	1
		Psychidae	1	3
		Tineidae	3	5
16	Tortricoidea	Tortricidae	12	18
17	Yponomeutoidea	Argyresthiidae	1	1
		Attevidae	1	1
		Lyonettidae	1	1
		Plutellidae	1	1
18	Zygaenoidea	Limacodidae	14	16
		Zygaenidae	2	2
	Total		372	503

of the present study indicate a rich and diversified moth fauna in the Kavvai River basin. Lepidoptera species diversity has been shown to be highest in moderately disturbed forests and higher in disturbed forests than the undisturbed natural forest or mature forest (Blair & Launer 1997; Schulze et al. 2004; Brehm & Fiedler 2005; Hilt & Fiedler 2005; Bobo et al. 2006; Nöske et al. 2008; Vu & Vu 2011). The result of the present study supports the above hypothesis.

During the past 10 years or so, the study area has been facing unprecedented levels of conversion from the semi natural landscape and cultural landscape to artificial landscapes with monocultures of agricultural crops leading to depletion of ecologically important and critical terrains such as lateritic hillocks, sacred groves, riverine vegetation, mangroves, marshes, and wetlands. Land use classification in India which is based mainly on agricultural productivity usually classifies the majority of such semi natural landscapes as 'waste lands', which enables easy conversion of land from natural to artificial land use practices (Alex & Sajeev 2015). Considering the ecological importance of habitats, there is an urgent need to conserve these critical ecosystems along river basins for conserving their rich biodiversity.

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Figure 2. Representation of family-wise diversity of moths in Kavgai River basin.

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Images 1–24. 1—*Alucita* sp. | 2—*Trilocha varians* | 3—*Eupterote bifasciata* | 4—*Eupterote lineosa* | 5—*Eupterote undata* | 6—*Ganisa postica* | 7—*Actias selene* | 8—*Antheraea paphia* | 9—*Attacus atlas* | 10—*Acosmeryxanceus* | 11—*Angonyx Krishna* | 12—*Cephonodes hylas* | 13—*Daphnis nerii* | 14—*Macroglossum affictitia* | 15—*Theretra clotho* | 16—*Acherontia Lachesis* | 17—*Psilogramma increta* | 18—*Brenthia* sp. | 19—*Phycodes radiata* | 20—*Phragmataecia* sp. | 21—*Callidrepana patrana* | 22—*Callidrepana* sp. | 23—*Phalacra vidhisara* | 24—*Tridrepana albonotata*. © C.J. Alex.

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Images 121–144. 121—*Pseudoblabe oophore* | 122—*Schistophleps* sp. | 123—*Amata bicincta* | 124—*Amata cyssea* | 125—*Zurobata vacillans* | 126—*Cyclodes omma* | 127—*Daddala* sp. | 128—*Diomea* cf. *discisigna* | 129—*Donda eurychlora* | 130—*Egnasia ephyrodalis* | 131—*Ericeia inangulata* | 132—*Ericeia* sp.1 | 133—*Eudocima maternal* | 134—*Falana sordida* | 135—*Loxiota similis* | 136—*Nolasena ferrifervens* | 137—*Oraesia emarginata* | 138—*Oraesia excitans* | 139—*Rhesala moestalis* | 140—*Serodes campana* | 141—*Achaea Janata* | 142—*Anomis commode* | 143—*Anomis erosa* | 144—*Anomis figlina*. © C.J. Alex.

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Images 169–192. 169—*Naarada* sp. | 170—*Hypania iconicalis* | 171—*Prolophota* sp. | 172—*Arctornis submarginata* | 173—*Artaxa subfasciata* | 174—*Nygma* sp. | 175—*Euproctis* sp. | 176—*Lymantria marginata* | 177—*Netria* sp. | 178—*Olene* sp. | 179—*Euproctis* sp. | 180—*Chlumetia transversa* | 181—*Penicillaria jocosatrix* | 182—*Acontia bicolora* | 183—*Acontia marmorata* | 184—*Acontia nitidula* | 185—*Ataboruza divisa* | 186—*Cerynea troglodytes* | 187—*Hyperstrotia* sp. | 188—*Pseudozarba* sp. | 189—*Exsula* sp. | 190—*Amyna octo* | 191—*Amyna punctum* | 192—*Callopietria maillardi*. © C.J. Alex.

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Images 217–240. 217—*Allata plusiata* | 218—*Clostera anachoreta* | 219—*Sphenarches caffer* | 220—*Stenoptilodes* sp. | 221—*Diacrotricha* sp. | 222—*Pselnophorus* sp. | 223—*Eoophyla* sp. | 224—*Paracymoriza vagalis* | 225—*Parapoynx vittalis* | 226—*Parapoynx fluctuosalis* | 227—*Parapoynx stagnalis* | 228—*Ancylolomia japonica* | 229—*Ancylolomia* sp.1 | 230—*Ancylolomias* p.2 | 231—*Calamotropha* cf. *nigripunctella* | 232—*Calamotrophas* p.1 | 233—*Chilo infuscatellus* | 234—*Diaphania indica* | 235—*Haritalodes derogata* | 236—*Isocentris filalis* | 237—*Mabra eryxalis* | 238—*Metoea foedalis* | 239—*Pagyda salvalis* | 240—*Patissa fulvosparsa*. © C.J. Alex.

Images 241–264. 241—*Scirpophaga excerptalis* | 242—*Scirpophaga gilviberbis* | 243—*Scirpophaga incertulas* | 244—*Aetholix flavibasalis* | 245—*Agathodes ostentalis* | 246—*Agrioglypta itysalis* | 247—*Antigastra catalaunalis* | 248—*Ategumia* cf. *adipalis* | 249—*Bocchoris* sp. | 250—*Botyodes flavibasalis* | 251—*Cnaphalocrocis poeyalis* | 252—*Diasemia accalis* | 253—*Diasemia reticularis* | 254—*Dichocrocis tigrine* | 255—*Eurrhparodes bracteolalis* | 256—*Glyphodes bicolor* | 257—*Glyphodes bivitalis* | 258—*Glyphodes caesalis* | 259—*Herpetogramma bipunctalis* | 260—*Lamprosema tampiusalis* | 261—*Maruca vitrata* | 262—*Nausinoe geometralis* | 263—*Notarcha aurolinalis* | 264—*Omiodes indicata*. © C.J. Alex.

Images 265–288. 265—*Pachynoa sabelialis* | 266—*Palpita annulifer* | 267—*Parotis marginate* | 268—*Pileocera sodalist* | 269—*Pleuroptya iopasalis* | 270—*Pycnarmon cribrate* | 271—*Pygospila tyres* | 272—*Sameodes cancellalis* | 273—*Stemorrhages sericea* | 27—*Stenia minoralis* | 275—*Terastia egialealis* | 276—*Thysanoidma octalis* | 277—*Herculia pelasgalis* | 278—*Lepidogma* sp. | 279—*Noctuides melanophia* | 280—*Achroia* sp. | 281—*Melissoblaptis* sp. | 282—*Acrobasis* sp. | 283—*Addyme* sp. | 284—*Calguia* sp. | 285—*Conobathra* sp. | 286—*Epicrocis oegnusalis* | 287—*Pempelia morosalis* | 288—*Plodia* sp. © C.J. Alex.

Image 289–312. 289—*Arippara indicator* | 290—*Endotricha consocia* | 291—*Endotricha pyrosalis* | 292—*Tamraca* sp. | 293—*Zithata ctilis* | 294—*Rhodoneura* sp.1 | 295—*Collinsa* sp. | 296—*Striglina scitaria* | 297—*Compsoctena* sp. | 298—*Eumeta variegata* | 299—*Opogona dimidiatella* | 300—*Edosas* p.1 | 301—*Ancylis* sp. | 302—*Cryptophlebia* sp. | 303—*Lobesia aeolopa* | 304—*Loboschiza* cf. *koenigiana* | 305—*Strepsicrates* sp. | 306—*Acleris* sp. | 307—*Adoxophyes privatana* | 308—*Archips micaceana* | 309—*Archips* sp.1 | 310—*Clepsis peritana* | 311—*Homona coffearia* | 312—*Argyresthia* sp. © C.J. Alex.

Image 313–328. 313—*Atteva fabriella* | 314—*Leucoptera* sp. | 315—*Plutella xylostella* | 316—*Plutella* sp. | 317—*Miresa cf. bracteate* | 318—*Scopelodes venosa* | 319—*Setora* sp. | 320—*Thosea* sp. | 321—*Altha nivea* | 322—*Caissa fasciatum* | 323—*Tennya* sp. | 324—*Parasa lepida* | 325—*Parasa fumosa* | 326—*Phocoderma velutina* | 327—*Aphendala* sp. | 328—*Trypanophora* sp. © C.J. Alex.

Image 329. Moth collection using an illuminated white cloth. © C.J. Alex.

Image 330. Moth larval rearing. © C.J. Alex.

Appendix 1. Checklist of the moths recorded from Kuvai River basin.

	Scientific name	Author & description year
I	ALUCITOIDEAE	Leach, 1815
I.1	Alucitidae	Leach, 1815
1	<i>Alucita</i> sp.	
II	BOMBYCOIDEA	Latreille, 1802
II.1	Bombycidae	Latreille, 1802
II.1.a	Bombycinae	
2	<i>Trilocha varians</i>	Walker, 1855
II.2	Eupterotidae	Swinhoe, 1892
II.2.a	Eupterotinae	
3	<i>Eupterote bifasciata</i>	Kishida, 1994
4	<i>Eupterote hibisci</i>	Fabricius, 1775
5	<i>Eupterote lineosa</i>	Walker, 1855
6	<i>Eupterote undata</i>	Blanchard, 1844
7	<i>Ganisa postica</i>	Walker, 1855
8	<i>Ganisa</i> sp.1	
II.3	Saturniidae	Boisduval, 1837
II.3.a	Saturniinae	Boisduval, 1837
9	<i>Actias selene</i>	Hübner, 1806
10	<i>Antheraea paphia</i>	Linnaeus, 1758
11	<i>Attacus atlas</i>	Linnaeus, 1758
II.4	Sphingidae	Latreille, 1802
II.4.a	Macroglossinae	
12	<i>Acosmeryx anceus</i>	Stoll, 1781
13	<i>Angonyx krishna</i>	Eitschberger & Haxaire, 2006
14	<i>Cephonodes hylas</i>	Linnaeus, 1771
15	<i>Daphnis nerii</i>	Linnaeus, 1758
16	<i>Hippotion boerhaviae</i>	Fabricius, 1775
17	<i>Macroglossum afflictia</i>	Butler, 1875
18	<i>Macroglossum aquila</i>	Boisduval, [1875]
19	<i>Theretra clotho</i>	Moore, 1872
20	<i>Theretra suffusa</i>	Walker, 1856
II.4.b	Sphinginae	
21	<i>Acherontia lachesis</i>	Fabricius, 1798
22	<i>Psilogramma increta</i>	Walker, [1865]
23	<i>Psilogramma menephron</i>	Cramer, 1780
III	CHOREUTOIDEA	Stainton, 1858
III.1	Choreutidae	Stainton, 1858
III.1.a	Brenthiinae	
24	<i>Brenthias</i> sp.	
III.1.b	Choreutinae	
25	<i>Choreutis</i> sp.	
IV	COSSIOIDEA	Leach, 1815
IV.1	Brachodidae	Agénjo, 1966
26	<i>Phycodes minor</i>	Moore, 1881
27	<i>Phycodes radiata</i>	Ochsenheimer, 1808
IV.2	Cossidae	Leach, 1815

	Scientific name	Author & description year
IV.2.a	Zeuzerinae	
28	<i>Phragmataecia</i> sp.1	
V	DREPANOIDEA	Boisduval, 1828
V.1	Drepanidae	Boisduval, 1828
V.1.a	Drepaninae	
29	<i>Callidrepana patrana</i>	Moore, 1865
30	<i>Callidrepana</i> sp.1	
31	<i>Phalacra vidhisara</i>	Walker, 1960
32	<i>Tridrepana albonotata</i>	Moore, 1879
VI	GELECHIOIDEA	Stainton, 1854
VI.1	Autostichidae	Le Merchant, 1947
VI.1.a	Autostichinae	
33	<i>Autosticha</i> cf. <i>kyotensis</i>	
VI.2	Blastobasidae	Meyrick, 1894
34	<i>Blastobasis</i> sp.	
VI.3	Cosmopterigidae	Heinemann & Wocke, 1876
35	<i>Anatrachyntis</i> sp.	
36	<i>Cosmopterix</i> sp.	
VI.3.a	Cosmopteriginae	
37	<i>Labdia semicoccinea</i>	Stainton, 1859
38	<i>Limnaecia peronodes</i>	Meyrick, 1915
VI.4	Gelechiidae	Stainton, 1854
39	<i>Helcystogramma</i> sp.	
40	<i>Helcystogramma hibisci</i>	Stainton, 1859
VI.4.a	Anacampsininae	
41	<i>Idiophantis</i> sp.	
42	<i>Thiotricha</i> sp.	
VI.4.b	Chelariinae	
43	<i>Anarsia epotias</i>	Meyrick, 1916
44	<i>Anarsia</i> sp.1	Park, 1995
45	<i>Hypatima haligramma</i>	Meyrick, 1926
VI.4.c	Dichomeridinae	
46	<i>Dichomeris harmonias</i>	Meyrick, 1922
47	<i>Dichomeris</i> sp.1	
VI.4.d	Gelechiinae	
48	<i>Stegasta</i> sp.	
VI.5	Lecithoceridae	Le Merchant, 1947
49	<i>Lecithocera concinna</i>	Turner, 1919
VI.6	Oecophoridae	Bruant, 1850
VI.6.a	Oecophorinae	
50	<i>Promalactis</i> sp.	
VI.7	Scythrididae	Rebel, 1901
51	<i>Eretmocera</i> sp.	
VI.8	Stathmopodidae	Janse, 1917
52	<i>Hieromantis</i> sp.	

	Scientific name	Author & description year
53	<i>Stathmopoda gemmiconsuta</i>	Terada, 2012
54	<i>Stathmopoda</i> sp.1	
VI.9	Symmocidae	Gozmany, 1957
55	<i>Symmoca signatella</i>	Herrich-Schäffer, 1854
VII	GEOMETROIDEA	Leach, 1815
VII.1	Geometridae	Leach, 1815
VII.1.a	Desmobathrinae	
56	<i>Derambila</i> sp.	
57	<i>Ozola minor</i>	Moore, 1888
58	<i>Ozola</i> sp.1	
VII.1.b	Ennominae	
59	<i>Achrosis intexta</i>	Swinhoe, 1891
60	<i>Achrosis rondelaria</i>	Fabricius, 1775
61	<i>Amraica</i> cf. <i>superans</i>	Butler, 1878
62	<i>Ascotis imparata</i>	Walker, 1860
63	<i>Biston suppressaria</i>	Guenée, [1858]
64	<i>Borbachia pardaria</i>	Guenée, [1858]
65	<i>Chiasmia eleonora</i>	Cramer, [1780]
66	<i>Chiasmia honoraria</i>	Hampson, 1912
67	<i>Chiasmia nora</i>	Walker, 1861
68	<i>Chiasmia</i> sp.1	
69	<i>Comibaena</i> sp.1	
70	<i>Ectropis bhurmitra</i>	Walker, 1860
71	<i>Gonodontis</i> sp.	
72	<i>Heterostegane urbica</i>	Swinhoe, 1886
73	<i>Hyperythra lutea</i>	Stoll, [1781]
74	<i>Hyperythra</i> sp.	
75	<i>Hypomecis infixaria</i>	Walker, 1860
76	<i>Hypomecis punctinalis</i>	Scopoli, 1763
77	<i>Hypomecis transscissa</i>	Walker, 1860
78	<i>Hyposidra talaca</i>	Walker, 1860
79	<i>Menophra</i> sp.	
80	<i>Oenospila flavifusata</i>	Walker, 1861
81	<i>Parapholodes fuliginea</i>	Hampson, 1891
82	<i>Petelia</i> cf. <i>rivulosa</i>	Butler, 1881
83	<i>Ruttellerona cessaria</i>	Walker 1860
VII.1.c	Geometrinae	
84	<i>Aporandria specularia</i>	Guenée, [1858]
85	<i>Argyrocosma</i> cf. <i>inductaria</i>	Guenée, 1857
86	<i>Comostola meritaria</i>	Walker 1861
87	<i>Comostola laesaria</i>	Walker, 1861
88	<i>Comostola rubripunctata</i>	Warren, 1909
89	<i>Dysphania percota</i>	Swinhoe, 1891
90	<i>Hemistola</i> sp.	
91	<i>Hemistola tenuilinea</i>	Alphéraky, 1897
92	<i>Hemithea</i> cf. <i>tritonaria</i>	Walker 1863
93	<i>Jodis</i> sp.	

	Scientific name	Author & description year
94	<i>Ornithospila avicularia</i>	Guenée 1857
95	<i>Orothalassodes falsaria</i>	Prout, 1912
96	<i>Pelagodes</i> sp.	
97	<i>Pingasa</i> cf. <i>ruginaria</i>	Guenée 1857
VII.1.d	Larentiinae	
98	<i>Eois grataria</i>	Walker, 1861
99	<i>Eupithecia</i> sp.	
100	<i>Gymnoscelis</i> cf. <i>rubricata</i>	de Joannis, 1932
101	<i>Gymnoscelis</i> cf. <i>rufifasciata</i>	Haworth, 1809
102	<i>Sauris</i> sp.	
VII.1.e	Oenochrominae	
103	<i>Noreia</i> sp.	
VII.1.f	Orthostixinae	
104	<i>Naxa seriaria</i>	Motschulsky, 1866
105	<i>Naxa textilis</i>	Walker, 1856
VII.1.g	Sterrhinae	
106	<i>Anisephyra</i> sp.	
107	<i>Perixera</i> sp.	
108	<i>Problepsis vulgaris</i>	Butler, 1889
109	<i>Scopula emissaria</i>	Walker, 1861
110	<i>Scopula minorata</i>	Boisduval, 1833
111	<i>Scopula</i> sp.1	
112	<i>Scopula</i> sp.2	
113	<i>Somatina</i> cf. <i>ioscia</i>	Prout, 1932
114	<i>Traminda aventiaria</i>	Guenée, [1858]
115	<i>Traminda mundissima</i>	Walker, 1861
VII.2	Uraniidae	Leach, 1815
VII.2.a	Epipleminae	
116	<i>Dysaethria</i> sp.	
117	<i>Epiplema bicaudata</i>	Moore, 1867
118	<i>Orudiza protheclaria</i>	Walker, 1861
119	<i>Phazaca</i> sp.1	
120	<i>Phazaca</i> sp.2	
121	<i>Rhombophylla edentata</i>	Hampson, 1895
VII.2.b	Microniinae	
122	<i>Micronia aculeata</i>	Guenée, 1857
VIII	GRACILLARIOIDEA	Stainton, 1854
VIII.1	Gracillariidae	Stainton, 1854
VIII.1.a	Gracillariinae	
123	<i>Acrocercops syngamma</i>	Meyrick, 1914
124	<i>Epicephala</i> sp.	
IX	HYBLAEIOIDEA	Hampson, 1903
IX.1	Hyblaeidae	Hampson, 1903
125	<i>Hyblaea puera</i>	Cramer, 1777
X	LASIOCAMPOIDEA	Harris, 1841
X.1	Lasiocampidae	Harris, 1841
X.1.a	Lasiocampinae	

	Scientific name	Author & description year
126	<i>Gastropacha</i> sp.1	
127	<i>Gastropacha pardale</i>	Walker 1855
128	<i>Odonestis</i> sp.	
129	<i>Trabala vishnou</i>	Lefèbvre, 1827
XI	NOCTUOIDEA	Latreille, 1809
XI.1	Erebidae	Leach, 1815
130	<i>Aloa lactinea</i>	Cramer, 1777
131	<i>Diacrisia</i> sp.	
132	<i>Nygma</i> sp.	
XI.1.a	Aganainae	
133	<i>Asota caricae</i>	Fabricius, 1775
134	<i>Asota plaginota</i>	Butler, 1875
135	<i>Asota plana</i>	Walker, 1854
136	<i>Asota producta</i>	Butler, 1875
137	<i>Neochera dominia</i>	Cramer, [1780]
XI.1.b	Arctiinae	
138	<i>Barsine defecta</i>	Walker 1854
139	<i>Brunia antica</i>	Walker, 1854
140	<i>Brunia griseola</i>	Hübner, 1827
141	<i>Ceryx</i> sp.	
142	<i>Eressa confinis</i>	Walker, 1854
143	<i>Eressa</i> sp.1	
144	<i>Olepa ricini</i>	Fabricius, 1775
145	<i>Syntomoide simaon</i>	Cramer, 1780
146	<i>Syntomoides</i> sp.1	
147	<i>Aemene</i> sp.1	
148	<i>Aemene taprobanis</i>	Walker, 1854
149	<i>Amerila astreus</i>	Drury, 1773
150	<i>Argina astrea</i>	Drury, 1773
151	<i>Cretonotos gangis</i>	Linnaeus, 1763
152	<i>Cretonotos transiens</i>	Walker, 1855
153	<i>Curoba sangarida</i>	Cramer, 1781
154	<i>Euchromia polymena</i>	Linnaeus, 1758
155	<i>Margina argus</i>	Kollar, 1844
156	<i>Pangora matherana</i>	Moore, 1879
157	<i>Pareuchaetes pseudoinulata</i>	Barros, 1956
158	<i>Spilarctia luteum</i>	Hufnagel, 1766
159	<i>Spilarctia mona</i>	Swinhoe, 1885
160	<i>Spilarctia obliqua</i>	Walker, 1855
161	<i>Spilosoma urticae</i>	Esper, 1789
162	<i>Utetheisa pulchella</i>	Linnaeus, 1758
163	<i>Cyana hamata</i>	Walker, 1854
164	<i>Cyana peregrina</i>	Walker, 1854
165	<i>Cyana</i> sp.1	
166	<i>Hemonia orbiferana</i>	Walker, 1863
167	<i>Hemonias</i> sp.2	
168	<i>Lyclene</i> cf. <i>obsoleta</i>	Moore, 1878

	Scientific name	Author & description year
169	<i>Lyclene</i> sp.1	
170	<i>Macrobrochis gigas</i>	Walker, 1854
171	<i>Miltochrista gratiosa</i>	Guérin-Ménéville, 1843
172	<i>Miltochrista</i> sp.1	
173	<i>Nepita conferta</i>	Walker, 1854
174	<i>Nepita rubricosa</i>	Moore, 1878
175	<i>Pseudoblabes oophora</i>	Zeller, 1853
176	<i>Schistophleps</i> sp.	
177	<i>Trischalis</i> sp.	
178	<i>Amata bicincta</i>	Kollar, 1844
179	<i>Amata cyssea</i>	Stoll 1782
XI.1.c	Aventiinae	
180	<i>Zurobata vacillans</i>	Walker, 1864
XI.1.d	Calpinae	
181	<i>Colobochyla</i> sp.	
182	<i>Cyclodes omma</i>	Hoeven, 1840
183	<i>Daddala</i> sp.	
184	<i>Diomea</i> cf. <i>discisigna</i>	Sugi, 1963
185	<i>Donda eurychlora</i>	Walker, 1858
186	<i>Egnasia ephyrodalis</i>	Walker, 1858
187	<i>Ericeia inangulata</i>	Guenée, 1852
188	<i>Ericeia</i> sp.1	
189	<i>Eudocima homaena</i>	Hübner, [1823]
190	<i>Eudocima materna</i>	Linnaeus, 1767
191	<i>Eudocima phalonia</i>	Linnaeus, 1763
192	<i>Falana sordida</i>	Moore, 1882
193	<i>Fodina</i> sp.	
194	<i>Homodes propitia</i>	Guenée, 1852
195	<i>Hulodes drylla</i>	Guenée, 1852
196	<i>Loxioda similis</i>	Moore, 1882
197	<i>Nola senaferriervens</i>	Walker, [1858]
198	<i>Oraesia emarginata</i>	Fabricius, 1794
199	<i>Oraesia excitans</i>	Walker, [1858]
200	<i>Rhesala moestalis</i>	Walker, 1865
201	<i>Serodes campana</i>	Guenée, 1852
XI.1.e	Erebinae	
202	<i>Achaea janata</i>	Linnaeus, 1758
203	<i>Anomis commoda</i>	Walker, 1865
204	<i>Anomis erosa</i>	Hübner, 1818
205	<i>Anomis figlina</i>	Butler, 1889
206	<i>Arsacia rectalis</i>	Walker, 1863
207	<i>Artena dotata</i>	Fabricius, 1794
208	<i>Artena submira</i>	Walker, 1858
209	<i>Asta quadrilinea</i>	Walker, [1863]
210	<i>Bastilla crameri</i>	Moore, 1885
211	<i>Bastilla fulvotaenia</i>	Guenée, 1852
212	<i>Bastilla joviana</i>	Stoll, 1782

	Scientific name	Author & description year
213	<i>Buzara onelia</i>	Guenée, 1852
214	<i>Chalciope mygdon</i>	Cramer, [1777]
215	<i>Entomogramma</i> sp.	Fautrix Guenée, 1852
216	<i>Ercheia cyllaria</i>	Cramer, [1779]
217	<i>Ercheia</i> sp.1	
218	<i>Erebus ephesperis</i>	Hübner, 1827
219	<i>Erebus hieroglyphica</i>	Drury, 1773
220	<i>Erebus macrops</i>	Linnaeus, 1758
221	<i>Gonitis</i> cf. <i>mesogona</i>	Walker, 1858
222	<i>Mocis undata</i>	Fabricius, 1775
223	<i>Ophiura triphaenoides</i>	Walker, 1858
224	<i>Pericyma cruegeri</i>	Butler, 1886
225	<i>Spirama</i> sp.	
226	<i>Sympis rufibasis</i>	Guenée 1852
227	<i>Thyas coronata</i>	Fabricius, 1775
228	<i>Thyas honesta</i>	Hübner, 1806
229	<i>Trigonodes hyppasia</i>	Cramer, [1779]
XI.1.f	Eublemminae	
230	<i>Eublemma accedens</i>	Felder & Rogenhofer, 1874
231	<i>Eublemma albostrigata</i>	Wileman & West, 1929
232	<i>Eublemma anachoresis</i>	Wallengren, 1863
233	<i>Eublemma baccalix</i>	Swinhoe, 1886
234	<i>Eublemma cochylioides</i>	Guenée, 1852
XI.1.g	Herminiinae	
235	<i>Enispa elataria</i>	Walker, 1861
236	<i>Bertula abjudicalis</i>	Walker, 1859
237	<i>Bocana manifestalis</i>	Walker, [1859]
238	<i>Hadennia</i> cf. <i>incongruens</i>	Butler, 1879
239	<i>Hydrillodes lentalis</i>	Guenée, 1854
240	<i>Naarada</i> sp.	
241	<i>Nodaria tristis</i>	Butler, 1879
242	<i>Simplicia</i> sp.	
XI.1.h	Hypeninae	
243	<i>Hypena iconicalis</i>	Walker, [1859]
244	<i>Hypena laceratalis</i>	Walker, 1859
245	<i>Hypenas</i> sp.1	
246	<i>Prolophota</i> sp.	
XI.1.i	Lymantriinae	
247	<i>Arctornis kumatai</i>	Inoue, 1956
248	<i>Arctornis submarginata</i>	Walker, 1855
249	<i>Artaxa subfasciata</i>	Walker 1865
250	<i>Calliteara grotei</i>	Moore, [1859]
251	<i>Euproctis</i> sp.	Moore, 1879
252	<i>Lymantria marginata</i>	Walker, 1855
253	<i>Olene mendosa</i>	Hübner, 1823
254	<i>Orgyia</i> sp.	
255	<i>Orvasca subnotata</i>	Walker, 1865

	Scientific name	Author & description year
256	<i>Perina nuda</i>	Fabricius, 1787
XI.1.j	Rivulinae	
257	<i>Rivula</i> sp.	
XI.2	Euteliidae	Grote, 1882
XI.2.a	Euteliinae	
258	<i>Chlumetia transversa</i>	Walker, 1863
259	<i>Penicillaria jocosatrix</i>	Guenée, 1852
XI.3	Noctuidae	Latreille, 1809
XI.3.a	Acontiinae	
260	<i>Acontia bicolora</i>	Leech, 1889
261	<i>Acontia marmoralis</i>	Fabricius, 1794
262	<i>Acontia nitidula</i>	Fabricius, 1787
263	<i>Ataboruza divisa</i>	Walke, 1862
264	<i>Ceryneatrogobasis</i>	Hampson 1910
265	<i>Hyperstrotia</i> sp.	
266	<i>Pseudozarba</i> sp.	
XI.3.b	Agaristinae	
267	<i>Exsula</i> sp.	
XI.3.c	Bagisarinae	
268	<i>Amyna natalis</i>	Walker, [1859]
269	<i>Amyna octo</i>	Hampson, 1910
270	<i>Amyna punctum</i>	Fabricius, 1794
271	<i>Amyna</i> sp.	
XI.3.c	Condicinae	
272	<i>Condica</i> sp.	
XI.3.d	Eriopinae	
273	<i>Callopietria maillardi</i>	Guenée, 1862
274	<i>Callopietria</i> sp.	
XI.3.f	Eustrotiinae	
275	<i>Eustrotia marginata</i>	Moore 1881
276	<i>Eustrotia</i> sp.1	
277	<i>Maliattha quadripartite</i>	Walker, 1865
278	<i>Maliattha separata</i>	Walker, 1863
279	<i>Maliattha signifera</i>	Walker, 1858
280	<i>Maliattha</i> sp.1	
281	<i>Protodeltote</i> sp.	
XI.3.g	Noctuinae	
282	<i>Chasmina candida</i>	Walker, 1865
283	<i>Chasmina fasciculosa</i>	Walker, 1858
284	<i>Chasmina pulchra</i>	Walker, 1857
285	<i>Diarsia</i> sp.	
286	<i>Hoplodrina</i> cf. <i>octogenaria</i>	Goeze, 1781
287	<i>Mythimna irrorata</i>	Moore, 1881
288	<i>Sesamia inferens</i>	Walker, 1856
289	<i>Sphragifera rejecta</i>	Fabricius, 1775
290	<i>Spodoptera litura</i>	Fabricius, 1775

	Scientific name	Author & description year
291	<i>Spodoptera mauritia</i>	Boisduval, 1833
292	<i>Polytela gloriosae</i>	Fabricius, 1781
XI.3.h	Plusiinae	
293	<i>Anadevidia peponis</i>	Fabricius, 1775
294	<i>Plusiopalpa adrasta</i>	Felder & Rogenhofer, 1874
XI.3.i	Stictopterinae	
295	<i>Lophoptera</i> sp.	
XI.4	Nolidae	Bruant, 1847
296	<i>Ptisciana seminivea</i>	Walker, 1865
XI.4.a	Chloephorinae	
297	<i>Nycteola revayana</i>	Scopoli, 1772
298	<i>Selepa celtis</i>	Moore, [1860]
299	<i>Selepa discigera</i>	Walker, 1864
300	<i>Xanthodes acontia</i>	Hampson, 1912
301	<i>Xanthodes graelsi</i>	Feisthamel, 1837
302	<i>Xanthodes transversa</i>	Guenée, 1852
XI.4.b	Eariadinae	
303	<i>Earias</i> sp.	
XI.4.c	Eligminae	
304	<i>Eligma narcissus</i>	Cramer, 1775
XI.4.d	Nolinae	
305	<i>Barasa acronyctoides</i>	Walker, 1862
306	<i>Meganola</i> sp.	
307	<i>Nola analis</i>	Wileman & West, 1928
308	<i>Nola</i> cf. <i>confusalis</i>	Herrich-Schäffer, 1847
309	<i>Nola japonibia</i>	Strand, 1920
310	<i>Nola triquetra</i>	Fitch, 1856
311	<i>Nola</i> sp.1	
312	<i>Sarbena lignifera</i>	Walker, 1862
313	<i>Stictane</i> sp.	
XI.5	Notodontidae	Scephens, 1829
XI.5.a	Dicranurinae	
314	<i>Netria</i> sp.	
315	<i>Stauropus alternus</i>	Walker, 1855
316	<i>Stauropus</i> sp.1	
317	<i>Syntypistis</i> sp.	
XI.5.b	Notodontinae	
318	<i>Chadisa</i> sp.	
XI.5.c	Phalerinae	
319	<i>Antheua servula</i>	Drury 1773
320	<i>Phalera javana</i>	Moore, 1859
XI.5.d	Pygaerinae	
321	<i>Allata argentifera</i>	Walker, 1862
322	<i>Allata plusiata</i>	Walker, 1865
323	<i>Clostera anachoreta</i>	(Denis & Schiffmüller, 1775)

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XI.5.e	Scranciinae	
324	<i>Gargetta divisa</i>	Gaede, 1930
XII	PTEROPHOIDEA	Latreille, 1802
XII.1	Pterophoridae	Latreille, 1802
325	<i>Diacrotricha</i> sp.	
326	<i>Exelastis</i> sp.	
327	<i>Pselnophorus</i> sp.	
XII.1.a	Pterophorinae	
328	<i>Sphenarches caffer</i>	Zeller, 1852
329	<i>Stenoptilodes</i> sp.	
330	<i>Tetrachalis</i> sp.	
XIII	PYRALOIDEA	Latreille, 1809
XIII.1	Crambidae	Latreille, 1810
331	<i>Pseudocatharylla</i> sp.	
XIII.1.a	Acentropinae	
332	<i>Elophila</i> cf. <i>peribocalis</i>	Walker 1859
333	<i>Eoophyla</i> sp.1	
334	<i>Paracymoriza vagalis</i>	Walker, 1865
335	<i>Parapoynx diminutalis</i>	Snellen 1880
336	<i>Parapoynx fluctuosalis</i>	Zeller, 1852
337	<i>Parapoynx stagnalis</i>	Zeller, 1852
338	<i>Parapoynx vittalis</i>	Bremer, 1864
XIII.1.b	Crambinae	
339	<i>Ancylolomia japonica</i>	Zeller, 1877
340	<i>Ancylolomia</i> sp.1	
341	<i>Ancylolomia</i> sp.2	
342	<i>Calamotropa</i> cf. <i>nigripunctella</i>	Leech, 1889
343	<i>Calamotropa</i> sp.1	
344	<i>Chilo infuscatellus</i>	Snellen, 1890
345	<i>Chilo partellus</i>	Swinhoe, 1885
346	<i>Euchromius</i> sp.1	
XIII.1.c	Cybalomiinae	
347	<i>Hendecasis</i> sp.	
348	<i>Trichophysetis</i> sp.	
XIII.1.d	Musotiminae	
349	<i>Musotima</i> sp.	
XIII.1.e	Odontiinae	
350	<i>Deanolis sublimbalis</i>	Snellen, 1899
351	<i>Noorda</i> sp.	
XIII.1.f	Pyraustinae	
352	<i>Achyra</i> sp.	
353	<i>Diaphania indica</i>	Saunders, 1851
354	<i>Euclasta</i> sp.	
355	<i>Haritalodes derogata</i>	Fabricius, 1775
356	<i>Isocentris filalis</i>	Guenée, 1854
357	<i>Isocentris</i> sp.	

	Scientific name	Author & description year
358	<i>Mabra eryxalis</i>	Walker, 1859
359	<i>Metoea foederalis</i>	Guenée, 1854
360	<i>Nacoleia</i> sp.1	
361	<i>Nacoleia tampusalis</i>	Walker, 1859
362	<i>Pagyda quinquelineata</i>	Hering, 1903
363	<i>Pagyda salvalis</i>	Walker, 1859
364	<i>Paliga ochrealis</i>	Moore 1886
365	<i>Paratalanta aureolalis</i>	Lederer, 1863
366	<i>Pyrausta</i> sp.	
XIII.1.g	Schoenobiinae	
367	<i>Patissa fulvosparsa</i>	Butler, 1881
368	<i>Scirpophaga excerptalis</i>	Walker, 1863
369	<i>Scirpophaga gilviberbis</i>	Zeller, 1863
370	<i>Scirpophaga incertulas</i>	Walker, 1863
371	<i>Scirpophaga</i> sp.1	
XIII.1.h	Spilomelinae	
372	<i>Aetholix flavibasalis</i>	Guenée, 1854
373	<i>Agathodes ostentalis</i>	Geyer, 1837
374	<i>Agrioglypta itysalis</i>	Walker, 1859
375	<i>Antigastra catalaunalis</i>	Duponchel, 1833
376	<i>Ategumia</i> cf. <i>adipalis</i>	Lederer 1863
377	<i>Bocchoris</i> sp.	
378	<i>Botyodes diniassalis</i>	Walker, 1859
379	<i>Botyodes flavibasalis</i>	Moore, 1867
380	<i>Bradina geminalis</i>	Caradja, 1927
381	<i>Cnaphalocrocis medinalis</i>	Guenée, 1854
382	<i>Cnaphalocrocis poeyalis</i>	Boisduval, 1833
383	<i>Diasemia accalis</i>	Walker, 1859
384	<i>Diasemia reticularis</i>	Linnaeus, 1761
385	<i>Dichocrocis tigrina</i>	Moore 1886
386	<i>Eurrhyarodes bracteolalis</i>	Zeller, 1852
387	<i>Glyphodes bicolor</i>	Wainson, [1821]
388	<i>Glyphodes bivitalis</i>	Guenée, 1854
389	<i>Glyphodes caesalis</i>	Walker, 1859
390	<i>Glyphodes shaffnerorum</i>	Viette 1987
391	<i>Goniorhynchus plumbeizonalis</i>	Fabricius, 1794
392	<i>Goniorhynchus</i> sp.1	
393	<i>Herpetogramma bipunctalis</i>	Fabricius, 1794
394	<i>Herpetogramma rudis</i>	Warren, 1892
395	<i>Herpetogramma</i> sp.1	
396	<i>Hymenia perspectalis</i>	Hübner, 1796
397	<i>Lamprosema tampusalis</i>	Walker, 1859
398	<i>Maruca vitrata</i>	Fabricius, 1787
399	<i>Nausinoe geometralis</i>	Guenée, 1854
400	<i>Notarcha aurolinealis</i>	Walker, 1859
401	<i>Omiodes analis</i>	Snellen, 1880
402	<i>Omiodes indicata</i>	Fabricius, 1775

	Scientific name	Author & description year
403	<i>Omiodes</i> sp.1	
404	<i>Pachynoa sabelialis</i>	Guenée, 1854
405	<i>Palpita annulifer</i>	Inoue, 1996
406	<i>Palpita</i> sp.	
407	<i>Parotis marginata</i>	(Hampson, 1893
408	<i>Parotis pomanalis</i>	Guenée, 1854
409	<i>Pileocera sodalis</i>	Leech, 1889
410	<i>Pileocera</i> sp.1	
411	<i>Pleuroptya iopasalis</i>	Walker, 1859
412	<i>Polioboty sablactalis</i>	Walker 1859
413	<i>Pycnarmon cribrata</i>	Fabricius, 1794
414	<i>Pygospila tyres</i>	Cramer, 1780
415	<i>Sameodes cancellalis</i>	Zeller, 1852
416	<i>Sameodes</i> sp.1	
417	<i>Spolade arecurvalis</i>	Fabricius, 1775
418	<i>Stemorrhages sericea</i>	Drury, 1773
419	<i>Stenia minoralis</i>	Snellen 1880
420	<i>Sufetula rectifascialis</i>	Hampson, 1896
421	<i>Syllepte</i> sp.	
422	<i>Terastia egialealis</i>	Walker, 1859
423	<i>Thysanoidma octalis</i>	Hampson, 1891
424	<i>Tyspanodes linealis</i>	Moor 1869
XIII.2	Pyralidae	Latreille, 1809
425	<i>Glyptoteles</i> sp.	
426	<i>Herculia pelasgalis</i>	Walker 1859
XIII.2.a	Epipaschiinae	
427	<i>Lepidogma</i> sp.	
428	<i>Macalla</i> sp.	
429	<i>Noctuoides melanophia</i>	Staudinger, 1892
430	<i>Orthaga</i> sp.	
431	<i>Stericta</i> sp.	
XIII.2.b	Galleriinae	
432	<i>Achroia</i> sp.	
433	<i>Melissoblyptus</i> sp.	
XIII.2.c	Phycitinae	
434	<i>Acrobasis</i> sp.	
435	<i>Addyge</i> sp.	
436	<i>Calguia</i> sp.	
437	<i>Conobathra</i> sp.	
438	<i>Epicrocis oegnusalis</i>	Walker, 1859
439	<i>Nephopterix</i> sp.	
440	<i>Pempelia morosalis</i>	Saalmüller, 1880
441	<i>Plodia</i> sp.	
XIII.2.d	Pyralinae	
442	<i>Aripara indicator</i>	Walker 1864
443	<i>Endotricha consocia</i>	Butler, 1879

	Scientific name	Author & description year
444	<i>Endotricha pyrosalis</i>	Guenée, 1854
445	<i>Hipsopygia nonusalis</i>	Walker 1859
446	<i>Orthopygia</i> sp.	
447	<i>Tamraca</i> sp.	
448	<i>Zith atactilis</i>	Swinhoe, 1890
XIV	THYRIDOIDEA	Herrich-Schaffier, 1846
XIV.1	Thyrididae	Herrich-Schaffier, 1846
XIV.2.a	Siculodinae	
449	<i>Addaea</i> sp.	
450	<i>Rhodoneura</i> sp.1	
451	<i>Rhodoneura</i> sp.2	
452	<i>Collinsa</i> sp.	
453	<i>Hypolamprus</i> sp.	
XIV.2.b	Striglininae	
454	<i>Strigina scitaria</i>	Walker 1862
XV	TINEOIDEA	Latreille, 1810
XV.1	Eriocottidae	Spuler, 1898
XV.1.a	Compsocteninae	
455	<i>Compsoctena</i> sp.	
XV.2	Psychidae	Boisdual, 1829
XV.2.a	Oiketecinae	
456	<i>Eumeta cramari</i>	Westwood, 1854
457	<i>Eumeta</i> sp.1	
458	<i>Eumeta variegata</i>	Snellen, 1879
XV.3	Tineidae	Latreille, 1810
XV.3.a	Hieroxestinae	
459	<i>Opogona dimidiatella</i>	Zeller, 1853
460	<i>Opogonasp.</i>	
XV.3.b	Perissomasticinae	
461	<i>Edosa opsigona</i>	Meyrick, 1911
462	<i>Edosa</i> sp.2	
XV.3.c	Tineinae	
463	<i>Tinea</i> sp.	
XVI	TORTRICOIDEA	Latreille, 1802
XVI.1	Tortricidae	Latreille, 1802
XVI.1.a	Olethreutinae	
464	<i>Ancylis</i> sp.	
465	<i>Cryptophlebia</i> sp.	
466	<i>Gatesclarkeana</i> sp.	
467	<i>Lobesia aeolopa</i>	Meyrick, 1907
468	<i>Lobesia</i> p.1	
469	<i>Loboschia</i> cf. <i>koenigiana</i>	Fabricius, 1775
470	<i>Ophiorrhada</i> sp.	
471	<i>Strepsicrates</i> sp.	
XVI.1.b	Tortricinae	
472	<i>Adoxophyes moderatana</i>	Walker, 1863

	Scientific name	Author & description year
473	<i>Adoxophyes orana</i>	Röslerstamm, 1834
474	<i>Adoxophyes privatana</i>	Walker, 1863
475	<i>Archips micaceana</i>	Walker, 1863
476	<i>Archips</i> sp.1	
477	<i>Archips</i> sp.2	
478	<i>Clepsis peritana</i>	Clemens, 1860
479	<i>Homona coffearia</i>	Nietner, 1861
480	<i>Acleris</i> sp.1	
481	<i>Acleris</i> sp.2	
XVII	YPONOMEUTOIDEA	Stephens, 1829
XVII.1	Argyresthiidae	Bruant, 1850
XVII.1.a	Argyresthiinae	
482	<i>Argyresthia</i> sp.	
XVII.2	Attevidae	Mosher, 1916
483	<i>Atteva fabriciella</i>	Swederus, 1787
XVII.3	Lyonettidae	Stainton, 1854
XVII.3.a	Cemiostominae	
484	<i>Leucoptera</i> sp.	
XVII.4	Plutellidae	Guenée, 1845
XVI.4.a	Plutellinae	
485	<i>Plutella xylostella</i>	Linnaeus, 1767
XVIII	ZYGAENOIDEA	Laterille, 1809
XVIII.1	Limacodidae	Duponchal, 1845
XVIII.1*	Increta sedis.	
486	<i>Altha nivea</i>	Walker, 1862
487	<i>Altha subnotata</i>	Walker, 1865
488	<i>Belippa</i> sp.	
489	<i>Caissa fasciatum</i>	Hampson, 1893
490	<i>Tennya</i> sp.	
491	<i>Parasa lepida</i>	Cramer, 1779
492	<i>Parasa fumosa</i>	Swinhoe, 1889
493	<i>Phocodermata velutina</i>	Kollar, 1844
494	<i>Setora</i> cf. <i>postorna</i>	Hampson 1900
XVIII.1.a	Limacodinae	
495	<i>Aphendala</i> sp.	
496	<i>Miresa</i> sp.1	
497	<i>Miresa argentifera</i>	Walker, 1855
498	<i>Praesetora</i> sp.	
499	<i>Scopelode svenosa</i>	Walker, 1855
500	<i>Susica pallida</i>	
501	<i>Thosea</i> sp.	Walker, 1855
XVIII.2	Zygaenidae	Laterille, 1809
XVIII.2.a	Chalcosiinae	
502	<i>Trypanophora</i> sp.	
503	<i>Cyclosia</i> Sp.	

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