

Annotated Checklist of Pyraloid Moths (Lepidoptera: Pyraloidea) of Andaman and Nicobar Islands

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Abstract

This paper presents an annotated checklist of Pyraloidea Moths from Andaman and Nicobar Islands with 202 species including 180 Crambidae and 22 Pyralidae. Of the recorded species, 180 species reported from Andaman group of islands and 57 from Nicobar group of islands. Twenty-five species are common to both islands group. The subfamily Spilomelinae showed highest number of species (140 species; 69 %) followed by Pyraustinae (19 species; 9%). Crambinae, Glaphyriinae, Galleriinae showed lowest species richness.

Keywords: Pyraloidea, Pyralidae, Crambidae, Andaman & Nicobar Islands, Micor lepidoptera

Introduction

The Pyraloidea, comprising the families Pyralidae and Crambidae are one of the mega-diverse super families of Lepidoptera, with about 16,000 described species worldwide, with greatest richness in the tropics (van Nieukerken *et al.*, 2011; Solis *et al.*, 2007; Regier *et al.*, 2012). Larvae of pyraloids cause major damage of crops worldwide (Clausen, 1978). Species of several subfamilies are pests to the crops, stored foodstuffs, forests and ornamental plants, defoliate shrubs and fruit trees. Only few species are directly benefiting humans as a biological control agent (Zhang, 1994; Center *et al.*, 2002). It is necessary to understand the geographical distribution of this economically important group.

Andaman and Nicobar Islands situated at Bay of Bengal, around 1200 km from mainland India between 6° - 14° N latitudes and 92° - 94° E latitudes, consist of around 572 islands and are known for its rich biodiversity. Lepidopteran fauna of these archipelagos are well documented by various workers in the past. However, Micro-lepidoptera of these islands receives very less attention. In this paper, we presented an annotated checklist of superfamily Pyraloidea of Andaman and Nicobar Islands with 202 species including 180 Crambidae and 22 Pyralidae based on available literature and field studies.

The Pioneer work on the Pyraloid fauna of Andaman and Nicobars carried by Moore (1877), who gave an extensive account of the Pyralids moths of South Andaman

and Nicobar Islands. Cotes and Swinhoe (1889) recorded several Pyraloids in their catalogue of Indian moths. Hampson (1896, 1898) described and reported several Crambids and Pyralids in publication of Fauna of British India. Swinhoe (1906, 1907) described two more new species with three new records to India and two Crambids from Andaman and Nicobar Islands respectively. Bhattacharya and Mandal (1976) and Bhattacharya (1977) recorded *Terastia meticulousalis* Guenee from Car Nicobar and *Xanthomelaena schematias* (Meyrick) from Great Nicobar respectively. Mandal and Bhattacharya (1980) reported 57 species under 30 genera from Andamans, and 14 species and 9 genera from Nicobars and only one species from Great Nicobar.

Abbas and Gangwar (1983), Jainath and Gangwar (1984), Shah and Belvadi (1985a), have also supplemented our knowledge on moths of agricultural importance of these Islands. Das *et al.*, (1987) reared larvae of *Hymenoptychis sordida* Zeller, 1852 from the infested fruits of mangroves belonging to *Bruguiera gymnorhyza* and *Sonneratia abla* and the stems of *Acanthus ilicifolius*. Das *et al.*, (1988) reported larvae of *Hypsipyla robusta* (Moore, 1886) boring the mangrove *xylocarpus granatum*. Bhumannavar (1989) recorded *Orthaga exvinaea* Hampson and *Autocharis albizonalis* (Hampson) from Mango (fruit crop) in South Andaman. Bhumannavar (1990) reported caterpillars and adults of *cirrhohrista fumipalpis* from a wild fig *Ficus hispida* in South Andaman. Bhumannavar and Jacob (1990) recorded *Tirathaba*

mundella Walker as a fruit borer of mango in South Andaman for the first time. Shah (1990) studied reaction of wild rice, *Oryza indandamania* Ellis to rice leaf folder *Canaphalorosis medinalis* Guenee and Rice Case worm *Nymphula depunctalis* Guenee. Bhumannavar (1991a,) and Bhumannavar (1991b) recorded Seven pyralide from agricultural weeds in south Andaman and a new record of *Citripestis eutraptera* Meyrick on *Mangifera andamanica* Respectively. Bhumannavar (1992) reported four pyralids from pulses and vegetable crops in South Andaman. Veenakumari and Mohanraj (1994) reported defoliation of *Tabernaemontana divarticata* by larvae of *Parotis vertumnalis* (Guenee).

Chandra and Kumar (1992) provided a comprehensive checklist of 415 species of moths from these islands which accounted for 134 species of Pyraloids. Chandra (1993, 1994, 1996, 1997) latter added few more species to the existing list of pyraloids. Rao *et al.*, (1994) reported six species of Pyraloids from the North Reef Island Wildlife Sanctuary, Veenakumari (1995) recorded *Hellula undalis* (F.) on Radish and Cole crops and *Leucinodes orbonalis* (G.) on Brinjal. Veenakumari and Mohanraj (1996) also added two more Crambids to the existing list. Chandra and Rajan, (1995, 2004) provided a checklist of Moths of Mount Harriet National Park which is also included number of species from this superfamily. Jacob *et al.*, (2004) also recorded *Citripestis eutraptera* as pests of cashew in Sippighat Area. Veenakumari and Mohanraj (2009) reported 14 species of Pyraloides on Mangrove associates in the Andaman Islands. Sivaperuman *et al.*, (2012) and Sivaperuman and Shah (2012a, b; 2013) further added new records from this islands. Chandra (2017) also provided a comprehensive list of moths of Great Nicobar Island of including 55 species of Crambidae. The most recent literature on the Lepidoptera fauna of these islands is provided by Chandra *et al.*, (2018) with around 165 species of pyraloids

Methods

The present paper was prepared based on the field studies in A & N Islands and consulted all available literature on the lepidopteran fauna. The classification system followed by van Nieukerken *et al.*, (2011) was

updated using GLOBIZ database. The geographic distribution and key references of the cited literatures were also provided.

Result and discussion

A total of 202 species of Pyraloids moths were reported from Andaman and Nicobar Islands which includes 180 species of Crambidae and 22 species of Pyralidae, belonging to 11 Sub-families (Table 1). Of which 180 species were recorded from Andaman group of islands and 57 were recorded from Nicobar group of islands. These two group of islands shares 25 species in common occurrence. Among all Lepidoptera, Pyraloids shows the most diverse living habits, the larvae of most of the species are pest, some live parasitically in the nest of ants or bees. Some larvae are adapted to live under water and some are adapted to dry environments (Nuss *et al.*, 2003-2020). Graphical representation of the diversity from the recorded Sub-families is presented in Fig. 2. The Spilomelinae with 3,500 species distributed worldwide among Pyraloids (Minet, 1981; Solis and Maes, 2003; Regier *et al.*, 2012), about 140 Species (69 %) from Andaman and Nicobar Islands followed by Pyraustinae (19; 9%). Crambinae, Glaphyriinae, Galleriinae were the least specious Sub-families. High species diversity of the Pyraloids is probably due to the undisturbed tropical forests of this archipelago.

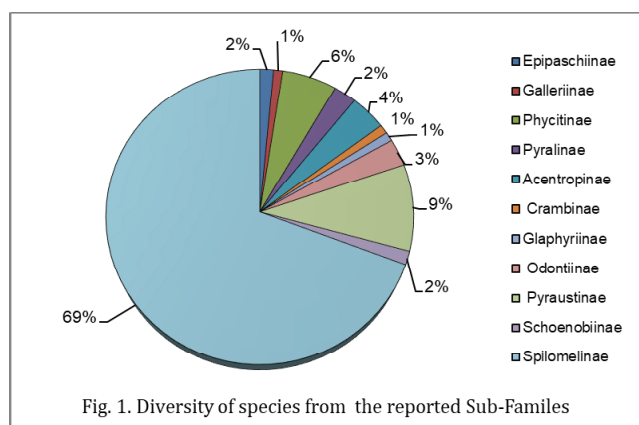


Fig. 1. Diversity of species from the reported Sub-Families

Literatures reviews shows that most of the survey conducted in the past were limited only to the South Andaman, Middle Andaman, Car Nicobar, Kamorta and Great Nicobar Islands, thus excluding many other

islands and their unexplored habitat. Pyraloids are best represented at lower and middle elevations in Tropics (Munroe and Solis, 1999). Long term intensive and

extensive surveys needs to be carried out in all type of forests including agricultural ecosystems for the better understanding of the diversity in this group.

Table 1: Annotated Checklist of Pyraloidea from Andaman and Nicobar Islands

Sl. No.	Species Name	AN	NI	Reference
1	Superfamily Pyraloidea			
2	Family Pyralidae Latreille, 1809			
3	Sub Epipaschiinae Meyrick, 1884			
4	<i>Lepidogma ambifaria</i> (Hering, 1901)	√	-	Chandra <i>et al.</i> , 2018
5	<i>Locastra muscosalis</i> (Walker, [1866])	√	-	Chandra <i>et al.</i> , 2018
6	<i>Orthaga exvinacea</i> (Hampson, 1891)	√	-	Chandra <i>et al.</i> , 1992
7	Sub Family Galleriinae Zeller, 1848	-	-	
8	<i>Aphomia cephalonica</i> (Stainton, 1866)	√	-	Chandra <i>et al.</i> , 2018
9	<i>Tirathaba mundella</i> Walker, 1864	√	-	Bhumannavar & Jacob (1990)
10	Sub Family Phycitinae Zeller, 1839			
11	<i>Assar</i> sp.	√	-	Chandra <i>et al.</i> , 2018
12	<i>Cadra cautella</i> (Walker, 1863)	√	-	Chandra <i>et al.</i> , 2018
13	<i>Cathylia fulvella</i> Ragonot , 1888	√	-	Veenakumari <i>et al.</i> ,1997
14	<i>Citripestis eutrapphera</i> (Meyrick, 1933)	√	-	Bhumannavar, 1992
15	<i>Copamyntis obliquifasciella</i> (Hampson, 1896)	√	-	Chandra and Kumar, 1992
16	<i>Emmalocera nigricalis</i> (Walker, 1863)	√	-	Chandra and Kumar, 1992
17	<i>Epicrocis oegnusalis</i> (Walker, 1859)	√	-	Chandra <i>et al.</i> ,2018
18	<i>Etiella zinckenella</i> (Treitschke, 1832)	√	-	Chandra and Kumar, 1992
19	<i>Hypsipyra robusta</i> (Moore, 1886)	√	-	Das <i>et al.</i> , (1988)
20	<i>Mascelia sp.nr, ectophoea</i> Hampson, 1908	√	-	Veenakumari <i>et al.</i> ,1997
21	<i>Phycita clientella</i> (Zeller, 1867)	√	-	Chandra, 1992
22	<i>Thylacoptila paurosema</i> Meyrick, 1885	√	-	Chandra, 2018
23	Sub Family Pyralinae Latreille, 1809			
24	<i>Hypsopygia nigrivitta</i> (Walker, 1863)	√	-	Veenakumari <i>et al.</i> , 1997
25	<i>Macna platychloralis</i> (Walker, [1866])	√	-	Hampson, 1896
26	<i>Pyralis trifascialis</i> Moore, 1877	√	-	Moore, 1877
27	<i>Vitessa nicobarica</i> Hampson, 1896	-	√	Hampson, 1896
28	<i>Vitessa suradeva</i> Moore, [1860]	√	-	Hampson, 1896
29	Family Crambidae Latreille, 1810			
30	Sub Family Acentropinae Stephens, 1836			
31	<i>Eristena oligostigmalis</i> Hampson, 1906	√	-	Hampson 1906
32	<i>Eristena parvalis</i> (Moore, 1877)	√	-	Moore, 1877; Cotes and Swinhoe (1889)

Sl. No.	Species Name	AN	NI	Reference
33	<i>Opisthedeicta poritialis</i> (Walker, 1859)	√	-	Veenakumari and Mohanraj, 2009
34	<i>Parapoynx stagnalis</i> (Zeller, 1852)	√	-	Chandra <i>et al.</i> , 2018
35	<i>Parapoynx affinalis</i> Guenée, 1854	√	√	Chandra <i>et al.</i> , 2018; Hampson, 1986
36	<i>Parapoynx diminutalis</i> (Snellen, 1880)	√	-	Chandra and Rajan, 1995
37	<i>Parapoynx fluctuosalis</i> (Zeller, 1852)	√	-	Chandra <i>et al.</i> , 2018
38	<i>Strepsinoma croesusalis</i> (Walker, 1859)	√	-	Chandra <i>et al.</i> , 2018
39	Sub Family Crambinae Latreille, 1810			
40	<i>Ancylolomia chrysographellus</i> (Kollar, 1844)	√	-	Khan, 2000
41	<i>Chilo sacchariphagus indicus</i> (Kapur, 1950)	√	-	Chandra <i>et al.</i> , 2018
42	Sub Family Glaphyriinae W. T. M. Forbes, 1923			
43	<i>Hellula undalis</i> (Fabricius, 1781)	√	-	Chandra and Kumar, 1992
44	<i>Noorda blitealis</i> Walker, 1859	√	-	Chandra <i>et al.</i> , 2018
45	Sub Family Odontiinae Guenée, 1854			
46	<i>Balaenifrons</i> sp.	√	-	Chandra <i>et al.</i> , 2018
47	<i>Dausara marginalis</i> Moore, [1877]	√	-	Moore, 1877
48	<i>Dausara talliusalis</i> Walker, 1859	√	-	Mandal and Bhattacharya, 1980
49	<i>Deanolis sublimbalis</i> (Hampson, 1903)	√	-	Chandra and Kumar, 1992; Chandra <i>et al.</i> , 2018
50	<i>Hyalinarcha hyalinalis</i> (Hampson, 1896)	√	-	Mandal and Bhattacharya, 1980
51	<i>Taurometopa aryostota</i> (Hampson, 1917)	√	-	Veenakumari <i>et al.</i> , 1997
52	Sub Family Pyraustinae Meyrick, 1890			
53	<i>Calamochrous homochroalis</i> Swinhoe, 1907	√	-	Swinhoe, 1907
54	<i>Tetridia vinacealis</i> (Moore, 1877)	√	-	Moore, 1877; Cotes and Swinhoe, 1889
55	<i>Chobera althealis</i> (Walker, 1859)	√	-	Hampson, 1896
56	<i>Chobera cascale</i> (Swinhoe, 1890)	√	-	Mandal and Bhattacharya, 1980
57	<i>Crypsiptya coclesalis</i> (Walker, 1859)	√	-	Khan, 2000
58	<i>Euclasta</i> sp.	√	-	Veenakumari and Mohanraj, 2009
59	<i>Isocentris filalis</i> (Guenée, 1854)	-	√	Mandal and Bhattacharya, 1980
60	<i>Limbototys limbolalis</i> (Moore, 1877)	√	-	Moore, 1877
61	<i>Limbototys ptyophora</i> (Hampson, 1896)	√	-	Chandra <i>et al.</i> , 2018
62	<i>Loxoneptera albicostalis</i> Swinhoe, 1906	√	-	Mandal and Bhattacharya, 1980
63	<i>Loxostege perbonalis</i> (Swinhoe, 1890)	√	-	Veenakumari & Mohanraj, 2009
64	<i>Pagyda discolor</i> Swinhoe, 1894	√	√	Mandal and Bhattacharya, 1980
65	<i>Pagyda salvalis</i> Walker, 1859	√	-	Mandal and Bhattacharya, 1980

Sl. No.	Species Name	AN	NI	Reference
66	<i>Paliga damastesalis</i> (Walker, 1859)	√	-	Veenakumari and Mohanraj, 1996
67	<i>Prooedema inscisalis</i> (Walker, 1866)	√	√	Chandra, 1996
68	<i>Pyrausta sikkima</i> Moore, 1888	√	-	Hampson 1896; Chandra, 1992
69	<i>Pyrausta tetraplagalis</i> Hampson, 1899	-	√	Mandal and Bhattacharya, 1980
70	<i>Spinuncus aureolalis</i> (Lederer, 1863)	√	-	Moore, 1877; Hampson, 1896
71	<i>Ostrinia furnacalis</i> (Guenée, 1854)	√	-	Mandal and Bhattacharya, 1980
72	Sub Family Schoenobiinae Duponchel, 1846			
73	<i>Scirpophaga incertulas</i> (Walker, 1863)	-	√	Chandra, 1992
74	<i>Scirpophaga innotata</i> (Walker, 1863)	√	-	Chandra <i>et al.</i> , 2018
75	<i>Scirpophaga nivella</i> (Fabricius, 1794)	√	-	Chandra <i>et al.</i> , 2018
76	Sub Family Spilomelinae Guenée, 1854	-	-	
77	<i>Aetholix flavibasalis</i> (Guenée, 1854)	√	√	Hampson, 1896; Mandal and Bhattacharya, 1980
78	<i>Agrotera nemoralis</i> (Scopoli, 1763)	-	√	Sivaperuman <i>et al.</i> , 2012
79	<i>Agrotera scissalis</i> Walker, 1865	√	-	Chandra and Rajan, 1995
80	<i>Agathodes ostentalis</i> Hubner, 1937	√	-	Hampson, 1896
81	<i>Agrioglypta itysalis</i> (Walker, 1859)	√	-	Hampson, 1896
82	<i>Antigastra catalaunalis</i> (Duponchel, 1833)	√	-	Mandal and Bhattacharya, 1980
83	<i>Ategumia adipalis</i> (Lederer, 1863)	√	-	Moore, 1877; Hampson, 1896
84	<i>Bacotoma cuprealis</i> (Moore, 1877)	√	-	Moore, 1877
85	<i>Blepharomastix hedychroalis</i> Swinhoe, 1907	√	-	Swinhoe, 1907; Hampson, 1908
86	<i>Bradina admixtalis</i> Walker, 1859	√	-	Zakir khan, 2000
87	<i>Chabula telphusalis</i> (Walker, 1859)	-	√	Chandra, 1996
88	<i>Chalcidoptera emissalis</i> (Walker, 1866)	√	√	Chandra, 1994
89	<i>Chrrhochrista brizoalis</i> (Walker, 1859)	√	√	Chandra, 1996
90	<i>Cirrhochrista fumipalpis</i> Felder, 1874	√	√	Chandra and Kumar, 1992
91	<i>Cnaphalocrocis bilinealis</i> (Hampson, 1891)	√	√	Mandal and Bhattacharya, 1980
92	<i>Cnaphalocrocis medinalis</i> (Guenée, 1854)	√	√	Mandal and Bhattacharya, 1980
93	<i>Cnaphalocrocis patnalis</i> (Bradley, 1981)	√	-	Chandra <i>et al.</i> , 2018
94	<i>Conogethes pandamalis</i> (Walker, 1859)	-	√	Mandal and Bhattacharya, 1980
95	<i>Coptobasis fraterna</i> (Moore, 1885)	-	√	Mandal and Bhattacharya, 1980
96	<i>Cydalima laticostalis</i> (Guenée, 1854)	√	-	Moore 1877; Hampson, 1896
97	<i>Cydalima pfeifferae</i> (Lederer, 1863)	√	√	Mandal and Bhattacharya, 1980
98	<i>Diaphania glauculalis</i> (Guenée, 1854)	-	√	Mandal and Bhattacharya, 1980
99	<i>Diaphania indica</i> (Saunders, 1851)	√	√	Mandal and Bhattacharya, 1980
100	<i>Diasemia accalis</i> (Walker, 1859)	√	-	Kendrick, 2002
101	<i>Dichocrocis atrisectalis</i> Hampson, 1908	√	-	Hampson, 1908

Sl. No.	Species Name	AN	NI	Reference
102	<i>Dichocrocis frenatalis</i> Lederer, 1863	-	√	Lederer, 1863; Moore, 1877
103	<i>Endocrossis flavibasalis</i> (Moore, 1867)	√	√	Chandra, 2017
104	<i>Eurrhyarodes tricoloralis</i> (Zeller, 1852)	√	-	Mandal and Bhattacharya, 1980
105	<i>Filodes fulvidorsalis</i> (Geyer in Hübner, 1832)	-	√	Chandra <i>et al.</i> , 2018
106	<i>Filodes mirificalis</i> (Lederer, 1863)	√	√	Moore, 1877; Cotes and Swinhoe, 1889
107	<i>Gadessa nilusalis</i> (Walker, 1859)	√	-	Mandal and Bhattacharya, 1980
108	<i>Glyphodes actorionalis</i> Walker, 1859	√	√	Moore 1877; Mandal and Bhattacharya, 1980
109	<i>Glyphodes bicolor</i> (Swainson, 1821)	-	√	Mandal and Bhattacharya, 1980
110	<i>Glyphodes bivitalis</i> Guenée, 1854	√	√	Mandal and Bhattacharya, 1980
111	<i>Glyphodes caesalis</i> Walker, 1859	√	-	Cotes and Swinhoe, 1889
112	<i>Glyphodes canthusalis</i> Walker, 1859	√	-	Chandra <i>et al.</i> , 2018
113	<i>Glyphodes ernalis</i> Swinhoe, 1894	√	-	Veenaumari and Mohanraj, 2009
114	<i>Glyphodes stolalis</i> Guenee, 1854	√	√	Chandra <i>et al.</i> , 2018
115	<i>Goniorhynchus plumbeizonalis</i> Hampson, 1896	√	-	Mandal and Bhattacharya, 1980
116	<i>Haritalodes derogata</i> (Fabricius, 1775)	√	√	Moore, 1877; Mandal and Bhattacharya, 1980
117	<i>Herpetogramma bipunctalis</i> (Fabricius, 1794)	√	-	Chandra, 1992
118	<i>Herpetogramma licarsisalis</i> (Walker, 1859)	√	-	Moore, 1877; Mandal and Bhattacharya, 1980
119	<i>Herpetogramma luctuosalis</i> (Guenee, 1854)	√	-	Moore, 1877
120	<i>Herpetogramma mutualis</i> Zeller, 1852	√	-	Cotes and Swinhoe, 1889
121	<i>Herpetogramma phaeopteralis</i> (Guenée, 1854)	√	-	Mandal and Bhattacharya, 1980
122	<i>Herpetogramma platycapna</i> (Meyrick, 1897)	√	-	Moore, 1877
123	<i>Herpetogramma stultalis</i> (Walker, 1859)	√	-	Hampson, 1896
124	<i>Heterocnephes lymphatalis</i> (Swinhoe, 1889)	-	√	Chandra, 1994
125	<i>Hydriris ornatalis</i> (Duponchel, 1832)	√	-	Chandra <i>et al.</i> , 2018
126	<i>Hymenia perspectalis</i> (Hübner, 1796)	√	-	Mandal and Bhattacharya, 1980
127	<i>Hymenoptychis sordida</i> Zeller, 1852	√	-	Das <i>et al.</i> , 1987
128	<i>Indogrammodes pectinicornalis</i> (Guenée, 1854)	√	-	Mandal and Bhattacharya, 1980
129	<i>Ischnurges gratiosalis</i> (Walker, 1859)	√	√	Mandal and Bhattacharya, 1980
130	<i>Lamprosema niphealis</i> Walker, 1859	√	√	Hampson, 1896; Chandra <i>et al.</i> , 2018
131	<i>Lepidoneura longipalpis</i> (Swinhoe, 1894)	√	-	Veenkumari and Mohanraj, 2009
132	<i>Leucinodes orbonalis</i> Guenée, 1854	√	-	Moore, 1877; Hampson, 1896
133	<i>Mabra eryxalis</i> (Walker, 1859)	√	-	Chandra <i>et al.</i> , 2018

Sl. No.	Species Name	AN	NI	Reference
134	<i>Marasmia poeyalis</i> (Boisduval, 1833)	√	-	Khan, 2000
135	<i>Maruca amboinalis</i> (Felder, Felder & Rogenhofer, 1875)	√	√	Chandra <i>et al.</i> , 2018
136	<i>Maruca vitrata</i> (Fabricius, 1787)	√	√	Mandal and Bhattacharya, 1980
137	<i>Messepha absolutalis</i> Walker, 1859	√	-	Chandra and Kumar, 1992
138	<i>Metoeca foederalis</i> (Guenée, 1854)	√	-	Chandra <i>et al.</i> , 2018
139	<i>Nacoleia charesalis</i> (Walker, 1859)	√	-	Mandal and Bhattacharya, 1980
140	<i>Nacoleia insolitalis</i> (Walker, 1862)	-	√	Hampson, 1896
141	<i>Nankogobinda artificialis</i> (Lederer, 1863)	√	-	Cotes and Swinhoe, 1889
142	<i>Nausinoe geometralis</i> (Guenée, 1854)	√	-	Mandal and Bhattacharya, 1980
143	<i>Nausinoe perspectata</i> (Fabricius, 1775)	√	-	Chandra <i>et al.</i> , 2018
144	<i>Nevirina procopia</i> (Stoll in Cramer & Stoll, 1781)	√	-	Chandra, 1994
145	<i>Nosophora incomitata</i> (Swinhoe, 1894)	√	√	Chandra and Kumar 1992, Chandra, 1996
146	<i>Nosophora quadrisignata</i> Moore, 1884	√	-	Cotes and Swinhoe, 1889
147	<i>Notarcha obrinusalis</i> (Walker, 1859)	√	√	Hampson, 1896; Cotes and Swinhoe, 1889
148	<i>Omiodes analis</i> (Snellen, 1880)	√	-	Veenakumari and Mohanraj, 2009
149	<i>Omiodes diemenalis</i> (Guenée, 1854)	√	√	Hampson, 1896; Mandal and Bhattacharya, 1980
150	<i>Omiodes indicata</i> (Fabricius, 1775)	√	-	Chandra, 1992
151	<i>Omiodes longipennis</i> (Warren, 1896)	√	-	Chandra <i>et al.</i> , 2018
152	<i>Omiodes origoalis</i> (Walker, 1859)	-	√	Hampson, 1908; Chandra and Kumar 1992
153	<i>Omiodes ovenalis</i> Swinhoe, 1906	√	-	Swinhoe, 1906
154	<i>Omiodes surrectalis</i> (Walker, 1866)	√	-	Veenakumari and Mohanraj, 2009
155	<i>Omphisa anastomosalis</i> (Guenée, 1854)	√	-	Hampson, 1899
156	<i>Omphisa illisalis</i> (Walker, 1859)	√	-	Moore, 1877;
157	<i>Orphanostigma abruptalis</i> (Walker, 1859)	√	√	Cotes and Swinhoe, 1889; Mandal and Bhattacharya, 1980
158	<i>Orphnophanes thoasalis</i> (Walker, 1859)	√	-	Moore, 1877
159	<i>Orthospila plutusalis</i> (Walker, 1859)	√	-	Hampson, 1896
160	<i>Pachynoa grossalis</i> (Guenée, 1854)	√	-	Swinhoe, 1906
161	<i>Pachynoa thoasalis</i> (Walker, 1859)	√	-	Hampson, 1896
162	<i>Palpita ardealis</i> (C. Felder, R. Felder & Rogenhofer, 1875)	√	√	Moore, 1877; Cotes and Swinhoe, 1889
163	<i>Palpita celsalis</i> (Walker, 1859)	-	√	Mandal and Bhattacharya, 1980
164	<i>Palpita nigropunctalis</i> (Brem, 1864)	√	-	Mandal and Bhattacharya, 1980

Sl. No.	Species Name	AN	NI	Reference
165	<i>Palpita picticostalis</i> (Hampson, 1896)	√	-	Hampson, 1896
166	<i>Palpita rhodocosta</i> Inoue, 1997	√	-	Sivaperuman and Shah 2012b
167	<i>Pardomima amyntusalis</i> (Walker, 1859)	√	-	Hampson, 1896
168	<i>Pardomima amyntusalis</i> Walker (1859)	√	-	Cotes and Swinhoe, 1889
169	<i>Parotis marginata</i> (Hampson, 1893)	√	√	Hampson, 1896; Chandra and Kumar, 1992
170	<i>Parotis marinata</i> (Fabricius, 1784)	√	-	Mandal and Bhattacharya, 1980
171	<i>Parotis suralis</i> (Lederer, 1863)	-	√	Mandal and Bhattacharya, 1980
172	<i>Parotis vertumnalis</i> (Guenée, 1854)	√	√	Mandal and Bhattacharya, 1980
173	<i>Patania balteata</i> Fabricius, 1798	√	-	Veenakumari <i>et al.</i> , 1997, Chandra 2017
174	<i>Patania caletoralis</i> (Walker, 1859)	√	-	Hampson, 1896
175	<i>Patania imbecilis</i> (Moore, 1888)	√	-	Mandal and Bhattacharya, 1980
176	<i>Patania iopasalis</i> (Walker, 1859)	√	-	Hampson, 1896
177	<i>Patania scinialis</i> (Walker, 1859)	√	-	Moore, 1877; Cotes and Swinhoe, 1889
178	<i>Phostria crithonalis</i> (Walker, 1859)	√	-	Chandra and Kumar, 1992
179	<i>Phostria maculicostalis</i> (Hampson, 1893)	√	-	Mandal and Bhattacharya, 1980
180	<i>Phostria origoalis</i> Walker, 1859	-	√	Swinhoe, 1906
181	<i>Phostria radicalis</i> (Walker, 1866)	√	-	Swinhoe, 1906
182	<i>Phostria schediusalis</i> (Walker, 1859)	-	√	Mandal and Bhattacharya, 1980
183	<i>Phostria unitalis</i> (Guenée, 1854)	√	-	Moore, 1877
184	<i>Phryganodes eradicalis</i> Hampson, 1908	√	√	Moore, 1877; Hampson, 1908
185	<i>Physematia concordalis</i> Lederer, 1863	√	√	Moore, 1877; Cotes and Swinhoe, 1889
186	<i>Pileocera aegimiusalis</i> (Walker, 1859)	√	-	Chandra and Kumar, 1992
187	<i>Poliobotys ablactalis</i> (Walker, 1859c)	√	-	Kirti <i>et al.</i> , 2016
188	<i>Polygrammodes sabelialis</i> (Guenée, 1854)	√	-	Hampson, 1896
189	<i>Pramadea crotonalis</i> (Walker, 1859)	√	-	Mandal and Bhattacharya, 1980
190	<i>Pramadea denticulata</i> Moore, 1888	√	-	Chandra, 1992
191	<i>Pramadea lunalis</i> (Guenée, 1854)	√	-	Moore, 1877; Hampson, 1896
192	<i>Prophantis octoguttalis</i> (C. Felder, R. Felder & Rogenhofer, 1875)	√	√	Mandal and Bhattacharya, 1980
193	<i>Pycnarmon aeriferalis</i> (Moore 1877)	√	-	Moore, 1877
194	<i>Pycnarmon alboflavalis</i> (Moore, 1888)	√	-	Hampson, 1898
195	<i>Pycnarmon jaguaralis</i> (Guenée, 1854)	√	-	Chandra <i>et al.</i> , 2018
196	<i>Pycnarmon meritalis</i> (Walker, 1859)	-	√	Mandal and Bhattacharya, 1980
197	<i>Pycnarmon obinusalis</i> (Walker, 1859)	-	√	Moore, 1877
198	<i>Pygospila tyres</i> (Cramer, 1779)	√	-	Chandra and Rajan, 2004

Sl. No.	Species Name	AN	NI	Reference
199	<i>Rehimena surusalis</i> (Walker, 1859)	√	-	Veenakumari and Mohanraj, 2009
200	<i>Rehimena villalis</i> Swinhoe, 1906	√	-	Swinhoe, 1906
201	<i>Rhimphalea ochalis</i> (Walker, 1859)	√	-	Mandal and Bhattacharya, 1980
202	<i>Rhimphalea trogusalis</i> (Walker, 1859)	√	-	Chandra and Kumar, 1992;
203	<i>Rhimphaleodes macrostigma</i> Hampson, 1893	√	-	Chandra and Rajan, 1995
204	<i>Samba purpurascens</i> Moore, 1877	√	-	Moore, 1877; Cotes and Swinhoe, 1889
205	<i>Samea castoralis</i> (Walker, 1859)	√	-	Hampson, 1896
206	<i>Sameodes cancellalis</i> (Zeller, 1852)	√	-	Mandal and Bhattacharya, 1980
207	<i>Spoladea recurvalis</i> (Fabricius, 1775)	√	√	Mandal and Bhattacharya, 1980
208	<i>Syllepte distinguenda</i> E. Hering, 1901	√	-	Veenakumari and Mohanraj, 1996
209	<i>Syllepte sellalis</i> (Guenee, 1854)	√	-	Hampson, 1896
210	<i>Synclera traducalis</i> (Zeller, 1852)	-	√	Mandal and Bhattacharya, 1980
211	<i>Syngamia latimarginalis</i> (Walker, 1859)	√	-	Mandal and Bhattacharya, 1980
212	<i>Talanga sexpunctalis</i> (Walker, 1877)	√	√	Moore, 1877
213	<i>Terastia meticulosalis</i> Guenee, 1854	√	√	Bhattacharya and Mandal (1976)
214	<i>Tyspanodes linealis</i> (Moore, 1867)	√	-	Moore, 1877
215	<i>Xanthomelaena schematias</i> (Meyrick, 1894)	√	√	Bhattacharya (1977); Mandal and Bhattacharya, 1980
216	<i>Zagiridia noctualis</i> Hampson, 1897	√	-	Veenakumari <i>et al.</i> , 1997

Table 2: List of few Synonyms/ Misapplied names

Sl. No	Updated taxa	Synonym/ Misapplied names	References
1	<i>Deanolis sublimbalis</i> Snellen, 1899	<i>Autocharis albizonalis</i> (Hampson, 1903)	Chandra and Kumar, 1992; Chandra <i>et al.</i> , 2018
2	<i>Spinousuncus aureolalis</i> (Lederer, 1863)	<i>Pyrallis ochrealis</i> Moore, 1877	Moore, 1877; Hampson, 1896
3	<i>Scirpophaga nivella</i> (Fabricius, 1794)	<i>Scirpophaga chrysorrhoea</i> (Zeller, 1863)	Chandra <i>et al.</i> , 2018
4	<i>Herpetogramma licarsisalis</i> (Walker, 1859)	<i>Botys abstrusalis</i> Walker, 1859; <i>Botys immundalis</i> Walker, 1866	Moore, 1877; Mandal and Bhattacharya, 1980
5	<i>Nankogobinda artificialis</i> (Lederer, 1863)	<i>Samea inscitalis</i> Walker, 1865	Cotes and Swinhoe, 1889
6	<i>Nausinoe perspectata</i> (Fabricius, 1775)	<i>Nausinoe pueritia</i> (Cramer, [1780])	Chandra <i>et al.</i> , 2018
7	<i>Orthospila plutusalis</i> (Walker, 1859)	<i>Pycnarmon discinotalis</i> Moore, 1877	Hampson, 1896

Sl. No	Updated taxa	Synonym/ Misapplied names	References
8	<i>Parotis marinata</i> (Fabricius, 1784)	<i>Pachyarches maliferalis</i> Walker, 1866	Moore, 1877; Mandal and Bhattacharya, 1980
9	<i>Phostria unitalis</i> (Guenée, 1854)	<i>Botys opalinalis</i> Moore, 1877	Moore, 1877

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