

**CHECKLIST OF THE GENUS *EUBLEMMA* HÜBNER, 1821
(LEPIDOPTERA: NOCTUIDAE: EUBLEMMINAE)**

Rajesh Kumar*, and V. V. Ramamurthy***

* Network Project on Insect Biosystematics, National Pusa Collection (Insects), Division of Entomology, Indian Agricultural Research Institute, New Delhi 110012, INDIA.

** Corresponding author's current address: Central Muga Eri Research and Training Institute, Central Silk Board, Ministry of Textiles (Govt. of India), Lahdoigarh 785700, Jorhat-ASSAM, INDIA. E-mail: rajesh.ento@gmail.com

[Kumar, R. & Ramamurthy, V. V. 2012. Checklist of the genus *Eublemma* Hübner, 1821 (Lepidoptera: Noctuidae: Eublemminae). *Munis Entomology & Zoology*, 7 (2): 1227-1251]

ABSTRACT: *Eublemma* is an economically important genus which consists 339 species and 269 synonyms from 73 countries. This genus belongs to family Noctuidae and subfamily Eublemminae of Order Lepidoptera. Most of the species of this genus considered as pests and few as predators. In this manuscript all the synonyms and new species have been compiled together along with geographical distribution upto year 2010.

KEY WORDS: *Eublemma*, checklist, Eublemminae, Noctuidae, Lepidoptera.

The genus *Eublemma* was erected by Hübner (1821) with one species *Eublemma raspersa* from Europe. This genus belongs to the family Noctuidae and subfamily Eublemminae under the order Lepidoptera. The genus is a taxonomically and biologically diverse. On the biodiversity point of view it is a large group of small to very small, but often robust. Usually, the larvae semilooper with greatest diversity is in the tropics, particularly in open habitats and savanna. The genus *Eublemma* is economically important and taxonomically ill defined (Kitcing, 1984). There are 339 species of which 14 occur in India and these species recorded in 73 countries and islands by 63 authors.

MATERIALS AND METHODS

The material available in the National pusa Collection (NPC) of the Division of Entomology, Indian Agricultural Research Institute (IARI), New Delhi and specimens from the collections of Zoological Survey of India, Kolkata included. The literature were procured from Library, ZSI, Kolkata; The library, IARI, New Delhi; Panjab University, Chandigarh, Punjab. All the species have incorporated from the available literature upto 2010 from the database of Zoological Records, CABI and Lepindex.

RESULT AND DISCUSSION

Eublemma was first described by Hübner (1821). An analysis of fauna described during the different periods indicates that most of the species were known and described between 1891-1918. An analysis made on the contributions of the different lepidopterists indicates that Hampson was significant contributor. Hampson's contribution was mostly towards the South Africa and African countries and described numerous numbers of species from Africa continent. The zoogeographical distribution indicates that it is predominant in Africa. The maximum species biodiversity is found in South Africa (41) followed by Yemen (21); Kenya (17); Australia (17); Madagascar (14); India (14); Algeria (14) and

Nigeria (11) and other 65 countries, which is given in Table 1,2. In India, it is distributed in most of the places. There are 269 synonyms of *Eublemma* spp. recorded from the available literature. This genus is ill-defined, unexplored and needs redescription for most of the species. The information available on the economic importance indicates that, some species are occurring as pests and predators. The moth, *Eublemma amabilis* Moore is very destructive to lac insect and lac encrustation (Rahman et al., 2007). A single larva of *E. amabilis* damages 42-50 matured cells prior to pupation. Likewise, *Eublemma scitula* is an important predator of brown scale insect, *Saissetia coffeae*, which is a serious pest of pointed gourd, *Trichosanthes dioica* in India (Pathak et al., 2003). Most of the species recorded as pests i.e. *Eublemma silicula* Swinhoe on pearl millet, *Pennisetum typhoides* (Burm.) (Kishore, 1996); *Eublemma dimidialis* Fabricius on green gram, *Vigna radiata* (L.) (Singh et al., 1986). However, this genus is economically important and shows the diversified nature i.e., pests and predators in nature.

ACKNOWLEDGEMENT

This work was done under the Project entitled “Network Project on Insect Biosystematics” funded by ICAR (Indian Council of Agricultural Research) and financial aid given by ICAR is gratefully acknowledged.

CHECKLIST

Eublemma Hubner (1821)

- Anthophila* Ochsenheimer, 1816:93; Poole, 1989: 95, 383
Ecthetis Hubner 1816:257; Poole, 1989:345, 383
Eromene Hubner 1816:256; Poole, 1989:380, 383
Eumestleta Butler, 1892:189; Poole, 1989:383, 408
Eumicremma Berio, 1954h:139; Poole, 1989:383, 409
Glaphyra Guenee, 1841:232; Poole, 1989:383, 459
Gyophora Warren in Seitz, 1913:217; Poole, 1989:383, 472
Heliomanes Sodofisky, 1837:89; Poole, 1989:383, 491
Mestleta Walker, 1865b:829; Poole, 1989:383, 649
Micra Guenee, 1841:224; Poole, 1989:383, 659
Microphisa Boisduval, 1840:170; Poole, 1989:383, 661
Microphysa Guenee, 1841:233; Poole, 1989:383, 661
Mixocharis Lederer, 1853:376; Poole, 1989:383, 667
Odice Hubner (1823)1816e:258; Poole, 1989:383, 717
Polyorycta Warren in Seitz, 1911:260; Poole, 1989:383, 827
Porphyrinia Hubner (1821)1816e:256; Poole, 1989:383, 832
Rhypagla Nye, 1975:432; Poole, 1989:383, 876
Thalomicra Spuler, 1907:290; Poole, 1989:383, 956
Thalpocharis Lederer, 1853:377; Poole, 1989:383, 956
Trothisa Hubner (1821)1816e:256; Poole, 1989:383, 979
Coccidiphaga Spuler, 1907:291; Fibiger and Hacker, 2002
Eupsoropsis Berio, 1969:45; Fibiger and Hacker, 2002

Type: *Noctua amoena* Hubner by subsequent designation by Moore, 1884:54.

- | | | |
|----|---|-------------|
| 1. | <i>acarodes</i> Swinhoe 1907:53 | West Africa |
| 2. | <i>acuta</i> Candeze 1927:83 | Cambodia |
| 3. | <i>acutiangulatalis</i> (Rothschild) | New Guinea |
| | <i>Catapsephis acutiangulatalis</i> Rothschild, 1915:127; Poole, 1989:383 | |
| 4. | <i>aestivalis</i> Guenee 1852b:247 | Spain |
| 5. | <i>afghana</i> (Wiltshire) | Afghanistan |
| | <i>Porphyrinia afghana</i> Wiltshire 1961a:345; Poole, 1989:384 | |

6. *aftob* (Brandt) Iran
Porphyrinia aftob Brandt 1938:558; Poole, 1989:384
7. *agnella* (Brandt) Iran
Porphyrinia agnella Brandt 1938:559; Poole, 1989:384
8. *agrapta* Hampson 1898a:449 Sri Lanka
9. *albicosta* Hampson 1910a:121 Ghana
10. *albida* (Duponchel) France
Anthophila albida Duponchel (1843) 1842:382; Poole, 1989:384
Thalpochares albida Moore 1881:370; Poole, 1989:384
Thalpochares albida var. *gratissima* Staudinger, 1891a:317; Poole, 1989:384 India
Thalpochares transmittens Christoph, 1893:93; Poole, 1989:384 USSR
Porphyrinia albida var. *peralba* Schawerda 1924:159; Poole, 1989:384 Iraq
Porphyrinia albida form *peralbida* Turati and Kruger 1936:66; Poole, 1989:384 Libya
11. *albifascia* Hampson 1910a:122 Ghana
Thalpochares siticulosa var. *albina* Staudinger, 1897c:293; Poole, 1989:384 Israel
12. *albipennis* Hampson 1910a:138 India
Thalpochares albida Moore 1881:370; Poole, 1989:384 India
13. *albipurpurea* (Warren) New Guinea
Porphyrinia albipurpurea Warren in Seitz 1913:220; Poole, 1989:384 New Guinea
14. *albivena* (Hampson) South Africa
Erizada albivena Hampson 1905:429; Poole, 1989:384
Eublemma albivena var. *pallescens* Le Cerf, 1911; Poole, 1989:384 South Africa
15. *albivestalis* Hampson 1910a:191 Israel
Thalpochares vestalis Staudinger 1899b:385; Poole 1989:384, 393 Israel
16. *albia* Hampson, 1914:170 Ghana
17. *albostrata* Wileman and West, 1929c:12 Philippines
18. *aliena* (Kruger) Libya
Porphyrinia aliena Kruger, 1939:344; Poole, 1989:384
19. *almaviva* Berio, 1947:13 Zaire
20. *amabilis* Moore (1884) 1884-1887:54 Sri Lanka
21. *amasina* (Eversmann) Russia
Anthophila amasina Eversmann, 1842:555; Poole, 1989:384
Anthophila paradisea Butler 1878:199; Poole, 1989:384 Japan
22. *amphidasys* Turner, 1933:161 Australia
23. *amydrosana* Rebel, 1947:55 Egypt
24. *anachoresis* (Wallengren) South Africa
Xanthoptera anachoresis Wallengren, 1863:148; Poole, 1989:384
Thalpochares accedens Felder and Rogenhofer, 1874:2; Poole, 1989:383 Indonesia
Thalpochares divisa Moore 1881:371; Poole, 1989:386 India, Sri Lanka
Thalpochares leonata Butler 1886d:404; Poole, 1989:388 Australia
25. *angulata* (Butler) New Britain
Lycauges angulata Butler 1882:233; Poole 1989:384
26. *antoninae* Nagaraja and Nagarkatti 1970:60 India
27. *apicata* Distant 1898:225 South Africa
Erastria acrochiona Mabille 1900:729; Poole, 1989:384
28. *apicipunctalis* (Brandt) Iran
Porphyrinia apicipunctalis, Brandt 1939:244; Poole, 1989:384
Eublemma guichardi Wiltshire 1977:170; Poole, 1989:387 Oman
29. *apicipunctum* Saalmuller 1891:358 Madagascar
30. *apicimacula* (Mabille)
Erastria apicimacula Mabille 1880:23; Fibiger & Hacker, 2002
31. *arcuinna* (Hubner) Germany
Noctua arcuinna, 1790:2; Poole, 1989:384
Noctua inamoena Hubner 1803c:pl.61, fig. 301,302 Europe
Noctua argillacea Tauscher 1809: 325; Poole, 1989:384 Lebanon
Cucullia blandula Rambur 1858: pl.10, fig.2 Spain
Cucullia pergrata Rambur 1858:pl. 10, fig. 3 Spain
32. *arenostrotata* Hampson 1916:114 Somalia
Eublemma suava var. *atlantica* Schawerda and Stattermayer in Schawerda, 1934:286; Poole, 1989:384 Algeria

33. *atrifusa* Hampson 1910a:123 Ghana
 34. *atrimedia* Hampson 1914:169 Nigeria
 35. *aurantiaca* Hampson 1910a:170 Ghana
 36. *baccalix* (Swinhoe) India
 Mestleta baccalix Swinhoe, 1886:452; Poole, 1989:384
 Mestleta fasciosa Moore (1887) 1884-1887:552 Sri Lanka
 37. *basalis* (Moschler) Puerto Rico
 Thalpochares basalis Moschler, 1890:169; Poole 1989:385
 Thalpochares basalis Moschler 1890:169
 38. *basiplaga* Bethune-Baker 1911b:520 Angola
 39. *batanga* Draudt 1950:130 China
 40. *bicolora* Bethune-Baker 1911b:520 Kenya
 41. *bifasciata* (Moore) India
 Thalpochares bifasciata Moore 1881:371; Poole, 1989:385
 42. *bilineata* Hampson 1902a:206 India
 43. *bipars* Gaede in Seitz 1935b:117 Niger
 Eublemma bipartita Rothschild 1921:162; Poole, 1989:385
 44. *bipartita* Hampson 1902b:419 South Africa
 45. *bistellata* (Wiltshire) Bahrain
 Porphyrinia bistellata Wiltshire 1961b:614; Poole, 1989:385
 46. *bolinia* (Hampson) South Africa
 Metachrostis bolinia Hampson 1902b:411; Poole, 1989:385
 47. *boursini* (Bytinski-Salz and Brandt) Iran
 Porphyrinia boursini Bytinski-Salz and Brandt 1937:6; Poole
 1989:385
 48. *brunneifusa* Gaede in Seitz 1935b:124 Cameroon
 49. *brunneosa* Bethune-Baker 1911b:520 Kenya
 50. *brygooi* (Viette) Mozambique
 Porphyrinia brygooi Viette 1966:201; Poole 1989:385
 51. *buettikeri* Wiltshire 1980a:220 Saudi Arabia
 52. *bulla* (Swinhoe) Pakistan
 Anthophila bulla Swinhoe 1884:518; Poole, 1989:385
 Marimatha pura Swinhoe 1885:456 India
 53. *caduca* (Critophs) Azerbaijan
 Thalpochares caduca Christoph 1893:93; Poole 1989:385
 54. *caelestis* (Brandt) Iran
 Porphyrinia caelestis Brandt 1938:558; Poole 1989:385
 55. *candicans* (Rambur) Spain
 Cucullia candicans Rambur 1858:pl. 10, fig. 5; Poole, 1989:385
 56. *candidana* (Fabricius) France
 Pyralis candidana Fabricius 1794:245; Poole, 1989:385
 Noctua minuta Hubner 1809c:p.96, fig. 451; Poole, 1989:385
 Tortrix perlana Hubner 1830:8; Poole, 1989:385
 Erastria skafiota Freyer 1845f:152; Poole, 1989:385
 Thalpochares candidana var. *impura* Staudinger in Staudinger and
 Wocke 1871:133; Poole, 1989:385
 Thalpochares candidana form *cantabrica* Rössler 1877:365; Poole,
 1989:385 Spain
 57. *caniceps* Rebel in Rebel and Zerny, 1917:429 Sudan
 58. *caprearum* Draudt 1933:187 Italy
 59. *carneola* Hampson 1910a:182 Borneo
 60. *carneotincta* Hampson 1910a:126 Sierra Leone
 61. *carterotata* Dyar 1919a:81 Costa Rica
 62. *chamila* Draudt 1936:493 China, Turkistan
 63. *chionophlebia* Hampson 1910a:799 South Africa
 Eublemma albivena Hampson 1910a:191; Poole, 1989:385
 64. *chlorochroa* Hampson 1910a:115 Kenya
 65. *chlorotica* (Lederer) Lebanon
 Thalpochares chlorotica Lederer 1858:144; Poole 1989:385
 66. *chopardi* Berio 1954h:136 Lebanon
 67. *cinnamomea* (Herrich-Schiiffer) Madagascar
 Trothisa cinnamomea Herrich-Schiiffer 1868:155; Poole 1989:385
 Trothisa margaritae Berg 1882b:285; Poole 1989:388
 Xanthoptera laphyra Druce 1890:517; Poole 1989:388
 Eublemma rosescens Hampson 1898b:248; Poole 1989:392
 68. *cochylionides* (Guenee) Haiti
 France

- Micra cochylionides* Guenee in Boisduval and Guenee, 1852b:245;
Poole 1989:385
- Micra rosita* Guenee 1852b:245; Poole 1989:392
- Thalpochares phoenissa* Lederer 1855:207; Poole 1989:390
- Micra derogata* Walker (1858) 1857:825; Poole 1989:386
- Thalpochares phoenissa* var. *calida* Staudinger (1895)1894:283;
Poole 1989:385
69. *colla* (Schaus)
Xanthoptera colla Schaus in Schaus and Clements, 1893:pl. 3, fig.
6; Poole 1989:385
70. *compsoprepes* Turner 1945:157
71. *compuncta* (Lederer)
Thalpochares compuncta Lederer 1871:15; Poole, 1989:386;
Hacker, 1999
- Eublemma aftob* (Brandt) Poole, 1989:384; Hacker, 1999
- Porphyrinia aftob* Brandt 1938:558; Poole, 1989:384
72. *concinna* (Lucas)
Thalpochares concinna Lucas 1894:110; Poole 1989:386
73. *confusa* Rothschild 1920:84
74. *confusata* (Warren)
Porphyrinia confusata Warren 1913b:221; Poole 1989:386
75. *conistrotta* Hampson 1910a:192
76. *conspersa* (Butler)
Aphendala conspersa Butler 1880:673; Poole, 1989:386
- Acantholipes acervalis* Swinhoe 1886: 451; Poole, 1989:383
- Miresa quadrinotata* Moore 1888:403; Poole, 1989:391
77. *costivinata* Berio 1945:83
78. *cremorna* (Hampson)
Catoblemma cremorna Hampson 1918:161; Poole 1989:386
79. *crocea* Rothschild 1920:84
80. *cyrenaeta* (Turati)
Porphyrinia cyrenaeta Turati 1924:101; Poole, 1989:386
81. *daphoena* Hampson 1910a:174
82. *daphoenoides* Berio 1941:123
83. *debilis* (Christoph)
Thalpochares debilis Christoph 1884:129; Poole, 1989:386
- Thalpochares debilis* var. *deleta* Staudinger in Staudinger and
Rebel 1901:228; Poole, 1989:386
84. *debivar* Berio 1947:122
85. *delicata* (Felder and Rogenhofer)
Thalpochares delicata Felder and Rogenhofer 1874:pl. 108, fig. 13;
Poole, 1989:386
86. *deliciosa* (Moschler)
Thalpochares deliciosa Moschler 1880:399; Poole, 1989:386
87. *deserta* (Staudinger)
Thalpochares deserta Staudinger (1900) 1899:383; Poole,
1989:386
88. *deserti* (Rothschild)
Thalpochares deserti Rothschild 1909:142; Poole, 1989:386
89. *dichroma* Rebel 1907:61
90. *dimidialis* (Fabricius)
Phalaena dimidialis Fabricius 1794:224; Poole, 1989:386
- Anthophila secta* Guenee 1852b:249; Poole, 1989:386
- Micra hemirhoda* Walker 1865:799; Poole, 1989:386
- Anthophila roseifascia* Walker 1865:803; Poole, 1989:386
- Thalpochares adulans* Felder and Rogenhofer 1874: pl.108, fig. 11;
Poole, 1989:386
- Thalpochares basilissa* Meyrick 1891:196; Poole, 1989:386
91. *dinawa* (Bethune-Baker)
Phanaspa dinawa Bethune-Baker 1906:216; ; Poole, 1989:386
92. *dissecta* (Saalmuller)
Anthophila dissecta Saalmuller 1891:357; Poole, 1989:386
93. *dissoluta* Rothschild 1921:161
94. *draudti* (Bytinski-Salz and Brandt)
Porphyrinia draudti Bytinski-Salz and Brandt 1937:5; Poole,
1989:386
95. *dyscapna* Fletcher 1961:217
- Australia
Cyprus
Australia
Lebanon
- Sierra Leone
- Australia
- Iran
- Iran
- Australia
- Algeria
Australia
- Pakistan, Quetta
Taiwan
- India
India
Ethiopia
Tunisia
- Algeria
Libya
- South Africa
Somalia
Iran
- Algeria
- Somalia
South Africa
- Surinam
- Algeria
- Algeria
- Yamen
India Orientali
- Indonesia
Indonesia
Locality Unknown
Indonesia
- Australia
Papua New Guinea
- Madagascar
- Nigeria
Iran
- Uganda

96. *eburnea* (Turati) Libya
Thalpochores eburnea Turati 1927:324; Poole, 1989:386
97. *ecthaemata* Hampson in Walsingham and Hampson 1896:263 Saudi Arabia
Eublemma spirogramma Rebel 1912:68; Poole, 1989:386 Egypt
98. *elychrysi* (Rambur) Middle Italian mountains
Erastria elychrysi Rambur 1833:26; Poole, 1989:386
Porphyrinia elychrysi var. *dannehli* Bytinskyi-Salz 1934:104; Poole, 1989:386
Porphyrinia elychrysi var. *schawerdae* Bytinskyi-Salz 1934:104; Poole, 1989:386 Sardinia
99. *emir* (Culot) Algeria
Thalpochores emir Culot 1915:153; Poole, 1989:386
100. *ephimera* Hampson 1910a:148 China
101. *epistrota* Hampson 1910a:95 India
102. *eremochroa* Hampson 1916:113 Somalia
103. *ernesti* Rothschild 1915a:232 Algeria
104. *eupethecica* Hampson 1910a:94 South Africa
105. *exanimis* Hampson 1918:165 Malawi
106. *exigua* (Walker) Locality Unknown
preserved in NHM London
Micra exigua Walker (1858) 1857:823; Poole, 1989:387
Micra nuga Snellen 1872; Poole, 1989:387
Thalpochores parvula Moore 1881:369; Poole, 1989:387
107. *faroulti* Rothschild 1911:231 India
108. *fasciola* (Saalmuller) Algeria
Anthophila fasciola Saalmuller 1891:360; Poole, 1989:387 Madagascar
109. *flammeola* (Lucas) Australia
Thalpochores flammeola Lucas 1894:108; Poole, 1989:387
110. *flavescens* Hampson 1918:165 Malawi
111. *flavia* Hampson 1910a:193 Panama
112. *flavibasis* Hampson 1918:165 Kenya
113. *flaviceps* Hampson 1902b:422; 1910a:83 Zimbabwe
114. *flaviciliata* Hampson 1910a:185 Nigeria
115. *flavicosta* Hampson 1910a:122 South Africa
116. *flavida* Hampson 1902a:419; 1910a:138 South Africa
117. *flavinia* (Hampson) South Africa
Metachrostis flavinia Hampson 1902b:411; Poole, 1989:387
118. *flavistriata* Hampson 1910a:187 Kenya
119. *flavitermina* Hampson 1910a:83 South Africa
120. *foedosa* (Guenee) South Africa
Anthophila foedosa Guenee in Boisduval and Guenee, 1852b:254; Poole, 1989:387
121. *fugitiva* (Christoph) Iran
Thalpochores fugitiva Christoph 1877:253; Poole, 1989:387
122. *fulvitermina* Hampson 1910a:83 South Africa
123. *galacteoides* Berio 1937a:174 Somalia
124. *gayneri* (Rothschild) Egypt
Mestleta gayneri Rothschild 1901:429; Poole, 1989:387
125. *geometriana* Viette 1981:330 Madagascar
126. *geyri* Rothschild 1915b:252 Tahihout
127. *glaucizona* Hampson 1908:489 South Africa
128. *goniogramma* Hampson 1910a:797 South Africa
129. *gratiosa* (Eversmann) Kyrgyzstan
Anthophila gratiosa Eversmann 1854:192; Poole, 1989:387
Thalpochores epigramma Staudinger 1889:53; Poole, 1989:386
130. *griseofimbriata* Gaede 1935b:118 Kyrgyzstan
131. *guiera* Bradley 1969:78 South Africa
132. *hapalochroa* Turner 1944:10 Nigeria
133. *hemichiona* Hampson 1918:164 Australia
134. *heterogramma* (Mabille) Malawi
Anthophila heterogramma Mabille, 1881:1xi; Poole, 1989:387
135. *himmighoffeni* Milliere 1867:200 Spain
Micra himmighoffeni Milliere 1867:200; Poole, 1989:387
136. *hypoazonata* Hampson 1910a:111 Kenya
137. *ignifusa* Hampson 1910a:181 Singapore
138. *ignifera* (Lucas) Australia
Thalpochores ignifera Lucas 1894:108; Poole, 1989:387

139. *illota* (Christoph)
Thalpochares illota Christoph 1887:83; Poole, 1989:387 Turkmenistan
140. *innocens* (Butler)
Thalpochares innocens Butler 1886:405; Poole, 1989:388 Australia
141. *insignifica* Rothschild 1924:315 Madagascar
142. *iophaenna* Turner 1920:164 Australia
143. *irresoluta* Dyar 1919a:80 Mexico
144. *jocularis* Christoph 1877:254 Iran
Thalpochares jocularis Christoph 1877:254;
145. *jucunda* (Hubner) Europe
Noctua jucunda Hubner 1813:pl. 103, fig. 486; Poole, 1989:388
Emmychia sepulcralis Treitschke 1829:199; Poole, 1989:388 France
146. *khalifa* (Wiltshire) Bahrain
Porphyrinia pallidula subsp. *khalifa* Wiltshire 1961b:616; Wiltshire 1990:183
Porphyrinia pallidula subsp. *nejdi* Wiltshire 1961b:617; Wiltshire 1990:183 Saudi Arabia
147. *keyserlingi* (Bienert) Iran
Thalpochares keyserlingi Bienert 1869:36; Poole, 1989:388
148. *khonoides* Wiltshire 1980a:217 Saudi Arabia
149. *kruegeri* (Wiltshire) Sudan
Porphyrinia kruegeri Wiltshire 1970b:112; Poole, 1989:388
150. *kuelekana* Staudinger in Staudinger and Wocke, 1871:131 Turkey
Thalpochares arcuina var. *kuelekana* Staudinger in Staudinger and Wocke, 1871:131; Poole, 1989:388
Eublemma cuelekana Hampson 1910a:115; Poole, 1989:388
151. *lacernaria* (Hubner) Europe
Geometra lacernaria Hubner 1813a:pl. 82, fig. 422; Poole, 1989:388
Anthophila glarea Treitschke 1826:282; Poole, 1989:388
Anthophila cretula Freyer 1842d:124; Poole, 1989:388
Helia phlomidis Herrich-Schiiffer 1851:431; Poole, 1989:388
152. *lactecosta* Hampson 1910a:159 Nigeria
153. *lacteola* Rothschild 1914:339 Algeria
154. *latericolor* Turner 1945:157 Australia
155. *lentirosea* Hampson 1910a:133 South Africa
156. *leptinia* (Mabile) Madagascar
Micraeschus leptinia Mabile, 1900:731; Poole, 1989:388
157. *leucanides* (Staudinger) Kyrgyzstan
Thalpochares leucanides Staudinger 1889:55; Poole, 1989:388
158. *leucanitis* Hampson 1910a:111 South Africa
159. *leucodesma* (Lower) Australia
Thalpochares leucodesma Lower 1899:88; Poole, 1989:388
160. *leucomelana* Hampson 1902b:420 South Africa
161. *leuconeura* Hampson 1910a:192 South Africa
162. *leucota* Hampson 1910a:154 Iran
163. *lecozona* Hampson 1910a:112 Kenya
164. *loxotoma* Turner 1909:352 Australia
165. *lozostropha* Turner 1902:118 Australia
166. *lutosa* (Staudinger) Syria
Thalpochares suppura var. *lutosa* Staudinger 1891:320; Poole, 1989:388
Thalpochares substrigula Staudinger 1891:321; Poole, 1989:388 Turkey
167. *maraschensis* (Osthelder) Turkey
Porphyrinia maraschensis Osthelder in Osthelder and Pfeiffer, 1933:88; Poole, 1989:388
Micra hansa Herrich-Schaffler 1851:436; Poole, 1989:387
Micra hansa Herrich-Schaffler 1851:436; Poole, 1989:387
Eublemma hansa Herrich-Schaffler 1851; Fibiger & Hacker, 1991:35 Southern Russia
168. *marginula* (Herrich-Schiiffer) Unknown
Micra marginula Herrich-Schiiffer (1851)a:439; Poole, 1989:388
169. *marmaropa* Meyrick 1902:33 New Guinea
170. *marmorata* Wileman and West 1929:11 Philippines
171. *melabasis* Hampson 1914:171 Nigeria
172. *melanodonta* Hampson 1910a:82 South Africa
173. *melasema* Hampson 1918:163 Nigeria
174. *mesophaea* Hampson 1910a:145 South Africa

175. *mesozona* Hampson 1914:169 Ghana
176. *miasma* (Hampson) India
 Erastria miasma Hampson 1891:12,73; Poole, 1989:388
 Trilophonota tegulata Wileman and West 1929:14; Poole, Philippines
 1989:388
177. *microptera* (Brandt) Iran
 Porphyrinia microptera Brandt 1939:243; Poole, 1989:388
178. *minima* (Guenee) Saint Thomas
 Micra minima Guenee in Boisduval and Guenee, 1852b:246; Poole,
 1989:389
 Thalpochares pennula Felder and Rogenhofer 1874:pl.108, fig. 12; Africa
 Poole, 1989:389
 Thalpochares carmelita Morrison 1875a:434; Poole, 1989:389 USA
 Toxophleps pallida Schaus 1904:160; Poole, 1989:389 Brazil
179. *minutata* (Fabricius) Germany
 Phalaena minutata Fabricius 1794:205; Poole, 1989:389
 Pyralis noctualis Hubner 1796:pl.6, fig. 38; Poole, 1989:389 Europe
 Noctua paula Syn. Nov. Hubner (1809)c:pl.96, fig. 452; Poole, Europe
 1989:389
 Porphyrinia noctualis form *egestosa* Draudt in Seitz 1935a:203;
 Poole, 1989:386
180. *minutoides* Poole 1989:388 Kenya
 Eublemma minuta Hampson 1910a:124
181. *misturata* Hampson 1910a:102 Uganda
182. *monotona* Le Cerf 1911:543 Kenya
183. *morosa* (Wiltshire) Sudan
 Porphyrinia morosa Wiltshire 1970b:113; Poole, 1989:389
184. *murati* (Brandt) Iran
 Porphyrinia murati Brandt 1939:243; Poole, 1989:389
185. *muscatensis* Wiltshire 1980b:200 Oman
186. *nelvai* Rothschild 1920:112 Algeria
187. *nigribasis* Bethune-Baker 1911:521 Angola
188. *nigrivitta* Hampson 1902b:421 South Africa
189. *nives* (Brandt) Iran
 Porphyrinia nives Brandt 1938:559; Poole, 1989: 389
190. *noctuelioides* (Wiltshire) Afghanistan
 Porphyrinia noctuelioides Wiltshire 1971:629; Poole, 1989:389
191. *nuristana* (Wiltshire) Afghanistan
 Porphyrinia nuristana Wiltshire 1961a:343; Poole, 1989:389
192. *nyctichroa* Hampson 1910a:125 Kenya
193. *nyctopa* Bethune-Baker 1911b:521 Angola
194. *obscura* (Kruger, 1939); Poole, 1989:389 Libya
 Porphyrinia obscura Kruger 1939:343
195. *ochricosta* Hampson 1916:114 Somalia
196. *ochrobasis* Hampson 1910a:135 South Africa
197. *ochrochroa* Hampson 1910a:123 Sierra Leone
198. *ochreola* (Staudinger) Turkey
 Thalpochares ochreola Staudinger (1900) 1899b:385; Poole,
 1989:393
 Eublemma thurneri Zerny 1935:74; Hacker, 1999 Yugoslavia
199. *odontophora* Hampson 1910a:143 Yemen
200. *olmii* Berio 1937b:386 Somalia
201. *ornatula* (Felder and Rogenhofer) South Africa
 Thalpochares ornatula Felder and Rogenhofer 1874:pl. 108, fig. 19;
 Poole, 1989:389
202. *orthogramma* (Snellen) New Guinea
 Micra orthogramma Snellen 1872:59; Poole, 1989:389
203. *ostrina* (Hubner) Europe
 Noctua ostrina Hubner (1808)c:pl. 85, fig. 399; Poole, 1989:389
 Anthophila porphyrina Freyer 1845f:93; Poole, 1989:389 Russia
 Anthophila numida Lucas 1849:388; Poole, 1989:389 Algeria
 Micra carthami Herrich-Schaffer 1851:438; Poole, 1989:389 Hungary
 Micra ostrina var. *aestivalis* Guenee 1852b:247; Poole, 1989:389 Spain
 Eublemma ostrina subsp. *thasia* Koutasfikis 1973:210; Poole, Greece
 1989:389
204. *pallidula* (Herrich-Schaffer) Turkey

- Thalpochores pallidula* Herrich-Schaffer 1856:178; Poole, 1989:390
- Thalpochores pallidula* form *cyprica* Staudinger 1878:413; Poole, 1989:386 Cyprus
- Thalpochores pallidula* var. *gardina* Staudinger 1901:229; Poole, 1989:390 Turkey
- Ecthetis vegans* Berio, 2002:289; Fibiger & Hacker, 2004:701 Locality not given
205. *panonica* (Freyer) Locality not given
- Anthophila panonica* Freyer 1840d:67; Poole, 1989:390
- Anthophila kindermannii* Boisduval 1840:174; Poole, 1989:390 Syria
- Anthophila lenis* Eversmann 1844:338; Poole, 1989:390 Lebanon
206. *parallela* Freyer 1841d:123 Lebanon
207. *parva* (Hubner) Europe
- Noctua parva* Hubner 1808c: pl. 77, fig. 356; Poole, 1989:390
- Micra parva* var. *rubefacta* Mabille 1869:56; Poole, 1989:390 Corsica
- Micra chalybea* Swinhoe 1884:518; Poole, 1989:390 Pakistan
- Eublemma nymphodora* Meyrick 1902:33; Poole, 1989:390 Western Australia
- Eublemma parvula* Moore, 1881:369; Fibiger & Hacker, 2002:2002 Yemen
- Porphyrinia parva lactescens* Turati, 1924:91; Fibiger & Hacker, 2002
208. *parvisi* Berio 1940:126 Ethiopia
209. *parvoides* (Brandt) Iran
- Porphyrinia parvoides* Brandt 1939:244; Poole, 1989:390
210. *pendula* Joannis 1928:316 Tonkin
211. *penicillata* Hampson 1902b:422 South Africa
212. *perinephela* Turner 1945:158 Australia
213. *perkeo* Rothschild 1921:162 Niger
214. *permixta* (Staudinger) Algeria
- Thalpochores permixta* Staudinger 1897:266; Poole, 1989:390
- Eublemma mozabitica* Rothschild 1912:126 Algeria
215. *pernivea* Rothschild 1920:84 Algeria
216. *perobliqua* Hampson 1910a:132 Kenya
217. *phaeopera* Hampson 1910a:103 Nigeria
218. *phaecosoma* Turner 1929:298 Australia
219. *plumbosa* Distant 1899:462 South Africa
220. *polygramma* (Duponchel) France
- Anthophila polygramma* Duponchel (1842) 1836:519; Poole, 1989:390
- Anthophila argillacea* Eversmann 1844a:339; Poole, 1989:390 Russia
- Thalpochores nuda* Christoph 1862:221; Poole, 1989:390 Southern Russia
- Thalpochores polygramma* var. *putorina* Staudinger 1889:53; Poole, 1989:390 Uzbekistan
- Thalpochores polygramma* var. *violetta* Staudinger 1889:53; Poole, 1989:390 Turkey
221. *popovi* (Wiltshire) Iran
- Porphyrinia popovi* Wiltshire 1953:218; Poole, 1989:390
222. *porphyrescens* Hampson 1914:168 Nigeria
223. *postrosea* Gaede in Seitz 1935b:121 Madagascar
224. *postrufa* Hampson 1914:168 Kenya
225. *postrufoides* Poole 1989:390 Madagascar
- Eublemma postrufa* Rothschild 1924:316
226. *posttormalis* Rothschild in Rothschild and Durrant, 1915:54 New Guinea
227. *proleuca* Hampson 1910a:122 Nigeria
228. *psamathea* Hampson 1910a:190 Kenya
229. *pseudepistrotia* (Brandt) Iran
- Porphyrinia pseudepistrotia* Brandt 1938:559; Poole, 1989:391
230. *pseudonocuta* Rothschild 1921:170 Niger
231. *pseudostrina* Rothschild 1914:339; 1920b:80 Algeria
232. *pseudoviridis* (Brandt) Iran
- Porphyrinia pseudoviridis* Brandt 1939:242; Poole, 1989:391
233. *pubica* Snellen 1880:63 Indonesia
- Thalpochores pubica* Snellen 1880:63; Poole, 1989:391
- Mestleta acontoides* Moore 1882:179; Poole, 1989:391 India
- Mestleta interrupta* Moore (1885) 1884-1887 :209; Poole, 1989:391 Sri Lanka
234. *pulcherrima* Wiltshire 1982:315 Saudi Arabia
235. *pulchra* (Swinhoe) India
- Anthophila pulchra* Swinhoe 1886:451; Poole, 1989:391

236. *pulverulenta* (Warren and Rothschild) Sudan
Galasa pulverulenta Warren and Rothschild 1905:26; Poole, 1989:391
237. *punctilinea* Hampson 1902b:416; 1910a:83 South Africa
238. *pura* (Hubner) Europe
Noctua pura Hubner 1813:pl. 125, fig. 579; Poole, 1989:391
239. *purinula* (Turati) Libya
Porphyrinia purinula Turati 1934:171; Poole, 1989:391
240. *purpurina* (Denis and Schiffermuller)
Noctua purpurina Denis and Schiffermuller 1775:88; Poole, 1989:391
Thalpochores purpurina var. *secunda* Staudinger 1901:228
241. *purulenta* (Turati) Tajikistan
Porphyrinia purulenta Turati 1934:170; Poole, 1989:391
242. *pusilla* (Eversmann) Russia
Erastria pusilla Eversmann 1837:50; Poole, 1989:391
Anthophila concinnula Boisduval 1840:174; Poole, 1989:391
Noctua proxima Fischer de Waldheim 1840:88; Poole, 1989:391
243. *pyrastis* Hampson 1910a: 10,187 South Africa
244. *pyrochroa* Hampson 1918:164 Ghana
245. *pyrosticta* Joannis 1910:202 Reunion
246. *quadrilineata* (Moore) India
Thalpochores quadrilineata Moore 1881:370; Poole, 1989:391
247. *quinarioides* Berio 1947:12 Ethiopia
248. *ragusana* (Freyer) Italy
Anthophila ragusana Freyer 1845f:92; Poole, 1989:391
Anthophila virginea Guenee 1852b:248; Poole, 1989:391
Anthophila cinerina Ghiliani 1854:214; Poole, 1989:391
Thalpochores psilogamma Lederer 1855:207; Poole, 1989:391
Hypena quinquelinealis Moore 1877:612; Poole, 1989:391
Thalpochores dividens Lucas 1892:87; Poole, 1989:391
249. *ragusanoides* (Berio) Madagascar
Porphyrinia ragusanoides Berio 1954h:134; Poole, 1989:391
250. *recta* (Guenee) Sierra Leone?
Micra recta Guenee in Boisduval and Guenee, 1852b:245; Poole, 1989:391
Phalaena obliquialis Fabricius 1794:224; Poole, 1989:391
Anthophila flammicincta Walker 1865:801; Poole, 1989:391
Trothisa pallescens Herrich-Schaffer 1868:154; Poole, 1989:391
Eublemma albivena var. *pallescens* Le Cerf 1911:53; Poole, 1989:391
251. *reducta* Butler 1894:588 St. Barthelemy Island
Tarache patula Morrison 1875b:69; Poole, 1989:391
Tarache patruelis Grote 1876:27; Poole, 1989:391
252. *reninigra* Berio 1945:82 USA
253. *respersa* (Hubner) Kenya
Noctua respersa Hubner 1790:2; Poole, 1989:391
Noctua amoena Hubner 1803c:pl. 61, fig. 300; Poole, 1989:391
Anthophila grata Treitschke 1826:283; Poole, 1989:391
254. *reussi* Gaede in Seitz 1935b:117 Tanzania
255. *rhodocraspis* Druce 1909:462 Borneo
256. *rivula* (Moore) India
Thalpochores rivula Moore 1882:140; Poole, 1989:391
Thalpochores pusilla Butler 1886d:404; Poole, 1989:391
257. *roseana* (Moore) Australia
Thalpochores roseana Moore 1881:370; Poole, 1989:391
258. *roseocincta* Hampson 1910a:175 Kenya
259. *roseonivea* (Walker) Borneo
Acontia roseonivea Walker (1863) 1864:49; Poole, 1989:392
260. *rosina* (Hubner) Europe
Noctua rosina Hubner (1803)c: pl. 61, fig. 299; Poole, 1989:392
Noctua rosea Hubner 1790:2; Poole, 1989:392
Thalpochores rosea var. *schernhammeri* Ruhl 1890:34; Poole, 1989:392
- Turkey

- Porphyrinia rosea* subsp. *sinuata* Schwingenschuss 1938:412;
Poole, 1989:392
261. *rosinans* Lucas 1938:181 Morocco
262. *rubripuncta* (Hampson) South Africa
Metachrostis rubripuncta Hampson 1902b:415; Poole, 1989:392
263. *rufimixta* Hampson 1918:163 Malawi
264. *rufocastanea* Rothschild 1924:316 Madagascar
265. *ryfagalactea* Holloway 1979:434 New Caledonia
266. *ryfolineata* Hampson 1918:163 New Guinea
267. *rushi* (Wiltshire) Bahrain
Porphyrinia rushi Wiltshire 1961b:613; Poole, 1989:392
268. *sabia* (Felder and Rogenhofer) South Africa
Thalpochares sabia Felder and Rogenhofer 1874:pl. 108, fig. 16;
Poole, 1989:392
269. *salangi* (Wiltshire) Afghanistan
Porphyrinia salangi Wiltshire 1961a:344; Poole, 1989:392
270. *sarcosia* Hampson 1910a:159 India
271. *savour* Berio 1950:89 Ethiopia
272. *sciaphora* Hampson 1910a:102 Sierra Leone
273. *scitula* (Rambur)
Erastria scitula Rambur, 1833:26; Fibiger & Hacker, 2002
Coccidiphaga turatii Berio, 2002; Fibiger & Hacker, 2002
274. *scituloides* Rebel in Rebel and Zerny, 1917:430 Libya
275. *scotina* Fletcher 1963:92; Poole, 1989:392 Sudan
276. *scotopis* Bethune-Baker 1911b:521 Uganda
277. *seminevea* Hampson Walsingham and Hampson, 1896:26 Nigeria
278. *semiochrea* (Kruger) Yemen
Porphyrinia semiochrea Kruger 1939:343; Poole, 1989:392
279. *situcosa* (Lederer) Syria
Thalpochares situcosa Lederer 1858:145; Poole, 1989:392
Thalpochares situculosa var. *albina* Staudinger 1897:293; Poole,
1989:384
280. *sperans* (Felder and Rogenhofer) South Africa
Thalpochares sperans Felder and Rogenhofer 1874: pl. 108, fig. 9;
Poole, 1989:392
281. *squalida* (Staudinger) Iran
Thalpochares squalida Staudinger 1878:413; Poole, 1989:392
Thalpochares griseola Erschov 1874:51; Poole, 1989:392
282. *staudingeri* (Wallengren) Turkistan
Thalpochares staudingeri Wallengren 1875:112; Poole, 1989:392
Eublemma pretoriae Distant 1898:225; Poole, 1989:392
283. *stereoscia* Turner 1936:33 South Africa
284. *stictilinea* Hampson 1910a:84 Australia
285. *straminea* (Staudinger) South Africa
Thalpochares straminea Staudinger 1891:322; Poole, 1989:392
286. *striantula* (Wiltshire) Turkey
Porphyrinia striantula Wiltshire 1961a:343; Poole, 1989:392
287. *stygiochroa* Hampson 1910a:109 South Africa
288. *stygiodonta* Hampson 1910a:107 West Africa
289. *suava* (Hubner) Europe
Noctua suava Hubner 1813:pl. 125, fig. 578; Poole, 1989:392
Eublemma suava var. *atlantica* Schawerda and Stattermayer
1934a:286; Poole, 1989:392
Eublemma suava subsp. *bithynica* Schwingenschuss 1939:281;
Poole, 1989:392
290. *subrufula* Rothschild 1924:316 Madagascar
291. *subvenata* (Staudinger) Tunisia
Thalpochares subvenata Staudinger 1892:288; Poole, 1989:393
292. *supuncta* (Staudinger) Turkey
Thalpochares supuncta Staudinger 1891:319; Poole, 1989:393
293. *suppura* (Staudinger) Turkey
Thalpochares suppura Staudinger 1891:320; Poole, 1989:393
294. *sydolia* Schaus 1940:207 Puerto Rico
295. *symphona* Prout in Talbot *et al.*, 1928:34 Morocco
296. *syrtensis* Hampson 1910a:112 Algeria
297. *tachycornis* (Strand) Taiwan
Porphyrinia tachycornis Strand 1920:115; Poole, 1989:393

298. *taftana* (Brandt) Iran
Porphyrinia taftana Brandt 1941:854; Poole, 1989:393
299. *taifensis* Wiltshire 1980a:219 Saudi Arabia
300. *tephroclytioides* Rothschild 1924:315 Madagascar
301. *terminimaculata* Wileman 1915:146 Taiwan
302. *therma* Hampson 1910a:154 Kenya
303. *thermobasis* Hampson 1910a:135 Yemen
304. *thermochroa* Hampson 1910a:107 South Africa
305. *thermosticta* Hampson 1910a:99 South Africa
306. *titanica* Hampson 1910a:798 South Africa
307. *tomentalis* Rebel 1947:55 Egypt
308. *trifasciata* (Moore) India
Thalpochares trifasciata Moore 1881:370; Poole, 1989:393
Eublemma demba Swinhoe 1901:472 Borneo
309. *trigramma* Hampson 1910b:411 Zimbabwe
310. *tritonía* (Hampson) Zimbabwe
Metachrostis tritonía Hampson 1902b:415; Poole, 1989:393
Plecoptera atristipata Hampson 1926:267 Malawi
311. *uniformis* Staudinger 1878:414 Iran
Thalpochares uniformis Staudinger 1878:414; Poole, 1989:393
312. *uninotata* Hampson 1902b:422 South Africa
313. *variochrea* Holloway 1979:435 New Caledonia
314. *velocissima* (Turati) Libya
Leptosia velocissima Turati 1926:48; Poole, 1989: 393
315. *vestalis* (Butler) Australia
Anthophila vestalis Butler 1886d:405; Poole, 1989:393
316. *viettei* (Berio) Madagascar
Porphyrinia viettei Berio 1954:136; Poole, 1989:393
317. *virginalis* (Oberthur) Algeria
Anthophila virginalis Oberthur 1881:90; Poole, 1989:393
Anthophila caid Oberthur 1881:91; Poole, 1989:393
Eublemma subterminalis Rothschild 1914; Poole, 1989:393
318. *viridis* (Staudinger) Uzbekistan
Thalpochares viridis Staudinger 1888:55; Poole, 1989:393
319. *viridula* Guenee 1841:249 Hungary
Anthophila viridula Guenee 1841:249; Poole, 1989:393
Micra dalmatina Herrich-Schiiffer 1851:440; Poole, 1989:393
320. *wagneri* (Herrich-Schiiffer) Yugoslavia
Micra wagneri Herrich-Schiiffer 1851:441; Poole, 1989:393
Micra wagneri Guenee 1852b:244; Poole, 1989:393 Turkey
321. *wollastoni* Rothschild 1901:430 Sudan
Eublemma wollastoni Hampson 1910a:21; Poole, 1989:393
322. *xanthocraspis* Hampson 1910a:185 Kenya
323. *maxima* Fibiger & Hacker 2002 Yemen
324. *globus* Fibiger & Hacker 2002 Yemen
325. *fredi* Fibiger & Hacker 2002 Yemen
326. *indistincta* Fibiger & Hacker 2002 Yemen
327. *oliva* Fibiger & Hacker 2002 Yemen
328. *biparva* Fibiger & Hacker 2002 Yemen
329. *miniparva* Fibiger & Hacker 2002 Yemen
330. *gerti* Fibiger & Hacker 2002 Yemen
331. *alexi* Fibiger & Hacker 2002 Yemen
332. *skoui* Fibiger & Hacker 2004:696 Yemen
333. *mediana* Fibiger & Hacker 2004:699 Yemen
334. *wiltshirei* Fibiger & Hacker 2004:701 Yemen
335. *cornutus* Fibiger & Hacker 2004:702 Yemen
336. *similis* Fibiger & Hacker 2004:703 Yemen
337. *goateri* Fibiger & Hacker 2004:703 Yemen
338. *topi* Fibiger & Hacker 2006:132 Yemen
339. *trolley* Fibiger & Hacker 2006:133 Yemen

LITERATURE CITED

- Berg, C.** 1882. *Analecta Lepidopterologica. Contribuciones al studio de la fauna de la Republica Argentina y otros paises Americanos.* *Anales de la Sociedad Cientifica Argentina*, 14: 275-288.
- Berio, E.** 1940. Contributo alla conoscenza dei Lepidotteri Eteroceri dell'Eritrea. V. Diagnosi di nuove Noctuidae raccolte da F. Vaccaro nel 1934-37. *Bollettino della Societa Entomologica Italiana*, 72: 122-126.
- Berio, E.** 1937a. Nuove specie di Eteroceri. Noctuidae – Lymantriidae – Limacodidae – Geometridae. *Annali del Museo Civico di Storia Naturale Giacomo Doria*, 58: 174-181.
- Berio, E.** 1937b. Eteroceri Africani apparentemente nuovi. *Annali del Museo Civico de Storia Naturale Giacomo Doria*, 59: 370-392.
- Berio, E.** 1941. Elenco di Lepidotteri Eteroceri raccolti da Querci-Romei in Somalia con diagnosi di nuove specie. *Memorie della Societa Entomologica Italiana*, 20: 118-124.
- Berio, E.** 1945. Reperti di nuove Noctuidae dell'Africa Orientale. *Memorie della Societa Entomologica Italiana*, 24: 81-83.
- Berio, E.** 1947. Diagnosi di alcune Erastrinae Africane (Lep. Noctuidae). *Memorie della Societa Entomologica Italiana*, 26: 12-15.
- Berio, E.** 1950. Diagnosi di nuove specie di notte (Lep. Noctuidae = Agrotidae). *Bollettino della Societa Entomologica Italiana*, 80: 89-92.
- Berio, E.** 1954. Etude de quelques Noctuidae Erastrinae de Madagascar (Lepid: Noctuidae). *Memoires de L'Institut Scientifique de Madagascar, Serie E*, 5: 133-153.
- Berio, E.** 1969. Nuovo genere e specie di Noctuidae d'Africa. *Bollettino della Societa Entomologica Italiana*, (99-101): 45-48.
- Berio, E.** 2002. Revision of Noctuidae (Lepidoptera) of the Turati Collection. *Museo Regionale di Scienze Naturali Monografie (Turin)*, 32: 1-524.
- Bethune-Baker, G. T.** 1906. New Noctuidae from British New Guinea. *Novitates Zoologicae*, 13: 191-287.
- Bethune-Baker, G. T.** 1911. Description of new species of Lepidoptera from tropical Africa. *Annals and Magazine of Natural History*, 8: 506-542.
- Bienert, T.** 1869. *Lepidopterologische Ergebnisse einer Reise in Persien in den Jahren 1858 und 1859.* Leipzig. C.W. Vllrath 56 pp.
- Boisduval, J. B. A. D. de** 1840. *Genera et Index Methodicus Europaeorum Lepidopterorum.* Paris. Roret. ix: 238 pp.
- Boisduval, J. B. A. D. de & Guenee, A.** 1852b. *Histoire Naturelle des insects. Species General des Lepidopteres.* Tome Cinquieme. Noctuelites. Tome 1. Paris. Roret. xcvi: 407 pp.
- Bradley, J. D.** 1969. Two new species of Lepidoptera of the Phalaena devastator, (the insects that produces the cutworm). *American Journal of Science*. 1: 154-155.
- Brandt, W.** 1938. Beitrag zur Lepidopteren fauna von Iran. Neue gattungen arten und formen (Macrolepidoptera). *Entomologische Rundschau*, 55: 558-561.
- Brandt, W.** 1941. Beitrag zur Lepidopteren fauna von Iran (3). Neue Agrotiden, nebst faunen verzeichder Munchner Entomologischen Gesellschaft, 31: 835-863.
- Butler, A. G.** 1878. Description of new species of Heterocera from Japan. Part-II. Noctuides. *Annals and Magazine of Natural History*, 5: 192-204.
- Butler, A. G.** 1880. For a second collection of Lepidoptera made in Formosa by H.E. Hobson, Esz. *Proceedings of The Zoological Society of London*, 1880: 666-691.
- Butler, A. G.** 1882. Description of new species of Lepidoptera, chiefly from Duke-of-York island and new Britain. *Annals and Magazine of Natural History. Series 5*, 10: 226-238.

- Butler, A. G.** 1886. Descriptions of 21 new genera and 103 new species of Lepidoptera – Heterocera from the Australian Region. Transactions of the Entomological Society of London. 1886: 355-394.
- Butler, A. G.** 1892. Notes on the synonymy of noctuid moths. Entomologists, 25: 188-191.
- Butler, A. G.** 1894. On a collection of Lepidoptera from British East Africa made by Dr. J.W. Gregory between the months of March and August, 1893. Proceedings of the Zoological Society of London. 1894: 557-593.
- Bytinski-Salz, H.** 1934. Ein Beitrag zur Kenntnis der Lepidopterenfauna Sardinien. Internationale Entomologische Zeitschrift, 28: 97-106.
- Bytinski-Salz, H. & Brandt, W.** 1937. New Lepidoptera from Iran. Entomologist's Record and Journal of Variation. 49-1-15: 104; Poole, 1989: 386.
- Candeze, L.** 1927. Lepidopteres Heteroceres de l'Indochine française. Encyclopedie Entomologique, ser. B, II, 2: 73-133.
- Christoph, H.** 1862. Vier neue sudrussische Schmetterlinge. Entomologische Zeitung. Entomologischen Verein zu Stettin, 23: 220-224.
- Christoph, H.** 1877. Sammelresultate aus Nordpersien, Krasnowodsk in Entomologica Rossicae, 12: 181-299.
- Christoph, H.** 1884. Lepidoptera aus dem Achal-Tekke-Gebiet. Memoires sur les Lepidopteres, 1: 93-121.
- Christoph, H.** 1887. Lepidoptera aus dem Achal-Tekke-Gebiet. Dritter Teil. Memoires sur les Lepidopteres, 3: 50-125.
- Christoph, H.** 1893. Lepidoptera nova fauna Palaearcticae. Deutsche Entomologische Zeitschrift. Gesellschaft Iris zu Dresden, 6: 86-96.
- Culot, J.** 1915. Noctuelles et Geometres d'Europe. Premiere Partie. Noctuelles. Volume 2. Rennes. Oberthur. 243 pp.
- Denis, J. N. C. M. & Schiffermüller, I.** 1775. Ankündigung eines Systematischen Werkes von den Schmetterlinge der Wiener Gegend. Wien. Bernardt. 333 pp.
- Distant, W. L.** 1898. On a collection of Heterocera made in the Transvaal. Annals and Magazine of Natural History, series 7, 1: 218-231.
- Distant, W. L.** 1899. Some apparently undescribed insects from the Transvaal. Annals and Magazine of Natural History, series 7, 3: 461-465.
- Draudt, M.** 1933. Neue Heteroceren des palaarktischen faunengebietes. Entomologische Rundschau, 50: 186-188.
- Draudt, M.** 1936. Neue Arten und Formen von Noctuiden. Entomologische Rundschau, 53: 490-493.
- Draudt, M.** 1950. Beiträge zur Kenntnis der Agrotiden-Fauna Chinas. Aus den Ausbeuten Dr. H. Hone's (Beitrag zur Fauna Sinica). Mitteilungen der Münchner Entomologischen Gesellschaft. 40: 1-174.
- Druce, H.** 1890. Description of new species of Lepidoptera Heterocera from Central and South America. Proceedings of the Zoological Society of London, pp. 493-520.
- Druce, H.** 1909. Description of some new species of Heterocera, chiefly from tropical South America. Annals and Magazine of Natural History, series 8, 5: 457-467.
- Duponchel, P. A. J.** 1842. Histoire Naturelle de Lepidopteres ou Papillions de France. Supplement Volume 3. Paris. Firmin Didot. pp. 481-648.
- Duponchel, P. A. J.** 1843. Histoire Naturelle de Lepidopteres ou Papillions de France. Supplement 4. Paris. Mequignon-Marvis. pp. 113-480.
- Dyar, H. G.** 1919. Some new tropical American moths (Lepidoptera). Insector Inscitiae Menstruus, 7: 74-85.

Erschov, N. G. 1874. In Fedchenko. Travels in Turkestan. Volume 2. Zoogeographical Investigations. Part 5. Lepidoptera. Saint Petersburg (Leningrad). M. Stasulevicha. 127 pp. (In Russian).

Eversmann, E. F. von 1837. Kurze notizen ueber einige Schmetterlinge Russlands. Bulletin de la Societe Imperiale des Naturalistes de Moscou, 6: 29-66.

Eversmann, E. F. von 1842. Quaedam Lepidopterorum. Species novae, in Rossia Orientali observatae, nunc descriptae et depictae. Bulletin de la Societe Imperiale des Naturalistes de Moscou, 3: 543-565.

Eversmann, E. F. von 1844. Fauna Lepidopterologica Volgo-Uralensis Exhibens Lepidopterorum Species quas per Viginti unique Annos in Pvoriciis Volgam Fluvium inter et Montes Uralenses situs Observavit et Descripsit. Casan. Typis Universitatis. xiv: 633 pp.

Eversmann, E. F. von 1854. Beitrage zur Lepidopterologie Russlands und beschreibung einige anderer Insecten aus den sudlichen Kirgisensteppen, der nordlichen Ufern des Aralsees und des Sir-Darja a. Bulletin de la Societe Imperiale des Naturalistes de Moscou, 27 (3): 174-205.

Fabricius, J. C. 1794. Entomologiae Systematica emendate et Aucta. Secundum Classes, Ordines, Genera, Species Adjectis Synonymis, Locis, Observationibus. Volume 3, Part 2. Hafniae. C.G. Proft. 349 pp.

Felder, C. & Rogenhofer, A. F. 1874. Reise Oesterreichischen Fregatte Novara um die Erde in den Jahren 1857, 1859. Zoologischer Theil, Zweiter Band, Zweite Abotheilung, Lepidoptera. Heft 4. Wien. Carl Gerold's Sohn. Plates 75-120 with associated letter press.

Fibiger, M. & Hacker, H. H. 2002. The Eublemma Hübner (1821) species of Yemen, with description of ten new species (Lepidoptera, Noctuidae, Eublemminae). (Part 1) Esperiana Buchreihe zur Entomologie Bd 9: 1-606.

Fibiger, M. & Hacker, H. H. 2004. The Eublemma Huebner, (1821) species of Yemen, with description of six new species (Lepidoptera, Noctuidae, Eublemminae) (Part 2). Esperiana, 10: 693-719, 776-779.

Fibiger, M. & Hacker, H. H. 2006. Updated list of Micronoctuidae, Noctuidae (s.l.), and Hyblaeidae species of Yemen, collected during three expeditions in 1996, 1998 and 2000, with comments and descriptions of species (Insect-Fauna of Yemen Part 4) Esperiana 12: 75.

Fischer de Waldheim, G. 1840. Annotationes de Lepidopteris a Cl. Kindermann prope Volgam inferiorum. Bulletin de la Societe Imperiale des Naturalistes de Moscou, 1840 (1): 81-89.

Fletcher, D. S. 1961. Ruwenzori Expedition. Volume, Number 7. Noctuidae London, William Clowes and Sons Ltd., pp. 177-323.

Fletcher, D. S. 1963. Noctuidae. Institute des Parcs Nationaux du Congo Belge. Exploration du Parc National Albert, series 2, 15: 71-115.

Freyer, C. F. 1839-1842. Neuere Beitrage zur Schmetterlingskunde mit Abbildungen nach der Natur. Vierter Band. Augsburg Carl. Kollman. 167 pp.

Freyer, C. F. 1845f. Neuere Beitrage zur Schmetterlingskunde mit Abbildungen nach der Natur. Vierter Band. Augsburg. M. Krieger. 166 pp.

Ghiliani, V. 1854. Elenco delle specie di Lepidotteri ni conosciuti esistenti negli Stati Sardi. Memorie della Reale Academie delle Scienze di Torino, serie 2, 14: 131-247.

Grote, A. R. 1876. Descriptions and notes on certain moths. Canadian Entomologist, 8: 25-29.

Guenee, A. 1841. Essai sur la classification des Noctuelides. Annales de la Societe Entomologique de France. 10: 217-250.

Hacker, H. H. 1999. Ergaenzungen zur 'Die Noctuidae Vorderasiens' und neuere Forschungsergebnisse zur Fauna der Tuerkei IV (Lepidoptera) (Taf. XXIII). [Supplement to the 'Noctuidae of the Near East' and new research results on the fauna of Turkey IV (Lepidoptera) (plates XXIII)] Esperiana. 7: 425-442.

Hampson, G. F. 1891. Illustrations of typical specimens of Lepidoptera Heterocera in the collection of the British Museum. Part VIII. The Lepidoptera Heterocera of the Nilgiri District. London. Taylor and Francis. 144 pp.

- Hampson, G. F.** 1898. The moths of the Lesser Antilles. Transaction of the Entomological Society of London, pp. 241-260.
- Hampson, G. F.** 1898a. The moths of India. Supplementary paper to the volumes in "The Fauna of British India". Part II. Journal of the Bombay Natural History Society, 11: 438-462.
- Hampson, G. F.** 1902b. The moths of India. Supplementary paper to the volumes in "The Fauna of British India" Series II. Part V. Journal of the Bombay Natural History Society, 14: 197-219.
- Hampson, G. F.** 1902b. The moths of south Africa (Part II). Annals of the South African Museum, 2: 255-446.
- Hampson, G. F.** 1905. The moths of South Africa (Part III). Annals of the South African Museum, 3: 389-438.
- Hampson, G. F.** 1908. On the moths collected during the cruise of the 'Valhalla' during the winter 1905-1906 by Mr. E.G.B. Meade-Waldo. Annals and Magazine of Natural History, series 8, 1: 474-492.
- Hampson, G. F.** 1910a. Catalogue of the Lepidoptera Phalaenae in the British Museum. Volume 10. London. Taylor and Francis. 829 pp.
- Hampson, G. F.** 1910b. Zoological collections from Northern Rhodesia and adjacent territories: Lepidoptera Phalaenae. Proceedings of the Zoological Society of London, 1910: 388-510.
- Hampson, G. F.** 1914. Description of new genera and species of Noctuidae. Annals and Magazine of Natural History, Series 8, 13: 146-175.
- Hampson, G. F.** 1916. In Poulton, E.B. 1916. On a collection of moths made in Somaliland by Mr. W. Feather. Proceedings of the Zoological Society of London, 1916: 91-182.
- Hampson, G. F.** 1918. Description of new genera and species of Amatidae, Lithosidae and Noctuidae. Novitates Zoologicae, 25: 93-217.
- Herrich-Schaffer, G. A. W.** 1851. Systematische Bearbeitung der Schmetterlinge von Europa, Zugleich als Text, Revision und Supplement zu J. Hubner's Sammlung Europaischer Schmetterlinge, 1838-1856. (Note – for the dating of this work see Hemming, 1937) Regensburg. G. J. Manz. 450 pp.
- Herrich-Schaffer, G. A. W.** 1856. Systematische Bearbeitung der Schmetterlinge von Europa. Sechster und letzter Band. Nachtrag zum ersten Band. Regensburg. G. J. Manz. 178 pp.
- Herrich-Schaffer, G. A. W.** 1868. Die Schmetterlinge der Insel Cuba. Correspondenz-Blatt des Zoologisch-Mineralogischen Vereins in Regensburg, 22: 147-156.
- Holloway, J. D.** 1979. A survey of the Lepidoptera, Biogeography and Ecology of New Caledonia. The Hague. W. Junk B.V. Publishers. 588 p.
- Hubner, J.** 1790. Beitrage zur Geschichte der Schmetterlinge. Band 2. Augsburg. 1-6.
- Hubner, J.** 1796. Sammlung Europaischer Schmetterlinge. Volume 6. Pyralides. Augsburg. J. Hubner. 32pl. pp.(i)-(iv).
- Hubner, J.** 1803-1813. Sammlung Europaischer Schmetterlinge. Volume 4. Eulen. Augsburg. J. Hubner. 185 pl. pp.(i) – (iii) – iv + 1-16.
- Hubner, J.** 1813a. Sammlung Europaischer Schmetterlinge. Volume 6. Pyralides. Augsburg. J. Hubner. 32pl. pp.(i)-(iv).
- Hubner, J.** 1816. Verzeichniss bekannter Schmettlinge. Augsburg (publisher name not given) 431 pp.
- Hubner, J.** 1830. Sammlung Europaischer Schmetterlinge. Volume 7. Tortrices. Augsburg. J. Hubner. 53pl. pp.(i)-(iii)-iv +1-16.
- Joannis, J. de** 1910. Trois nouvelles especes d'Erastrinae (Lep: Noctuidae) provenant des Iles Mascareignes. Bulletin de la Societe Entomologique de France, 1910: 201-204.
- Joannis, J. de** 1928. Lepidopteres Heteroceres du Tonkin. Annales de la Societe Entomologique de France, 97: 241-368.

- Kishore, P.** 1996. Changing pest status of earhead caterpillar, *Eublemma silicula* Swinhoe on pearl millet, *Pennisetum typhoides* (Burm.). *Journal of Entomological Research*, 20 (3): 277-279.
- Koutasftikis, A.** 1973. Vergleichend-zoogeographische untersuchung einiger Heterocereren Familien der Nordagaischen Inseln Thasas, Samothraki, und Limnos. *Annales Musei Goulandris*, 1: 185-238.
- Kruger, G. C.** 1939. Elenco e descrizioni dei Lepidotteri raccolti nella Sirtica Occidentale. *Annali del museo Libico Storia Naturale*, 1: 320-357.
- Le Cerf, F.** 1911. Collections recueillies en Afrique Orientale par le Baron Maurice de Rothschild (Lepidopteres). Descriptions d'especes et de varietes nouvelles. *Bulletin du Museum National d'Histoire Naturelle*, 17: 538-543.
- Lederer, J.** 1853. Lepidopterologisches aus Sibirien. *Verhandlungen des Zoologisch-Botanischen Vereins in Wien*, 3: 351-386.
- Lederer, J.** 1855. Beitrag zur Schmetterlings-fauna von Cypern, Beirut und einem theile Klein-Asiens. *Verhandlungen des Zoologisch-Botanischen Vereins in Wien*, 5: 177-254.
- Lederer, J.** 1858. Noch einige Syrische Schmetterlinge. *Wiener Entomologische Noatschrift*, 1: 135-152.
- Lederer, J.** 1871. Nachtrag zur verzeichnisse der von Herrn Jos. Haberhauer bei Asrabad in Persien gesammelten Schmetterlinge. *Horae Societatis Entomologicae Rossicae*, 8: 3-28.
- Lower, O. B.** 1899. Descriptions of new Australian Lepidoptera. *Proceedings of the Linnaen Society of New South Wales*, 24: 83-116.
- Lucas, D.** 1938. Contribution a l'etude des Lepidopteres de la France et de l'Afrique du Nord. *Bulletin de la Societe Entomologique de France*, 43: 181-185.
- Lucas, H.** 1849. Histoire Naturelle des Animaux Articulés. Troisieme Partie. Insectes. Explorations Scientifique de l'Algerie pendant les Annees 1840, 1841, 1842. *Sciences Physiques. Zoologie. III. Paris. A. Bertano.* 527 pp.
- Lucas, T. P.** 1892. On 34 new species of Australian Lepidoptera with additional localities, etc. *Proceedings of the Royal Entomological Society of Queensland*. 8: 68-94.
- Lucas, T. P.** 1894. Australian Lepidoptera: Thirty new species. *Transactions of the Natural History Society of Queensland*, 1: 103-116.
- Mabille, M. P.** 1869. Notices sur le Lepidopteres de la Corse, avec la liste des Acidalides de ce pays la 2e partie de l'enumeratio monographique des Eupithecies de la Corse et la description de quatre Eupithecia nouvelles pour la fauna Parisienne. *Annales de la Societe Entomologique de France, serie 4*, 9: 53-80.
- Mabille, M. P. 1880. Diagnoses Lepidopterum Malgassicorum. *Comptes Rendus des Seances de la Societe Entomologique de Belgique* 23: xvi-xxvii.
- Mabille, M. P.** 1881. Note sur plusieurs envois de Lepidopteres provenant de Madagascar. *Comptes Rendus des Seances de la Societe Entomologique de Belgique*, 25: lv-lxv.
- Mabille, M. P.** 1900. Lepidoptera nova Malgassica et Africana. *Annales de la Societe Entomologique de France*, 68: 723-753.
- Meyrick, E.** 1891. Descriptions of new Australian Lepidoptera. *Transactions of the Royal Society of South Australia*, 14: 188-199.
- Meyrick, E.** 1902. Descriptions of new Australian Lepidoptera. *Transactions of the Royal Entomological Society of London*, 1902: 25-48.
- Milliere, P.** 1867. Iconographie et description de Chenilles et Lepidopteres inedites. *Annales de la Societe Linneenne de Lyon* 15: 189-235.
- Moore, F.** 1877. The Lepidopterous Fauna of Andaman and Nicobar Islands. *Proceedings of the Zoological Society of London*, 1877: 580-632.
- Moore, F.** 1881. Descriptions of new genera and species of Asiatic nocturnal Lepidoptera. *Proceedings of Zoological Society of London*, 1881: 326-380.

- Moore, F.** 1882. Description of new Indian Lepidopterous insects from the Collection of the Late Mr. W.S. Atkinson. Heterocera (continued) (Cymatophoridae - Herminiidae) Part II. London. Taylor and Francis. Pp. 89-198.
- Moore, F.** 1884-1887. The Lepidoptera of Ceylon. Volume 3. London. L. Reece and Co. 578 pp.
- Moore, F.** 1888. Descriptions of new Genera and species of Lepidoptera Heterocera, collected by Rev. J.H. Hocking chiefly in the Kangra district, N.W. Himalaya. Proceedings of the Zoological Society of London, 1888: 390-412.
- Morrison, H. K.** 1875a. Notes on the Noctuidae, with descriptions of certain new species. No. II. Proceedings of the Academy of Natural Sciences of Philadelphia, 1875: 428-436.
- Morrison, H. K.** 1875b. Notes on the Noctuidae, with descriptions of certain new species. Proceedings of the Academy of Natural Sciences of Philadelphia, 1875: 55-71.
- Moschler, H. B.** 1880. Beitrage zur Schmetterlings-Fauna von Surinam. III. Verhandlungen der Kaiserling-Koniglichen Zoologisch-Botanischen Gesellschaft in Wien, 30 (Abhandlungen): 379-486.
- Moschler, H. B.** 1890. Die Lepidopteren-Fauna der Insel Portorico. Abhandlungen der Senkenbergischen Naturforschenden Gesellschaft, 16: 70-360.
- Nagaraja, H. & Nagarkatti, S.** 1970. Description of a new species of Eublemma (Lep.: Noctuidae) predacious on Antonina graminis (Masell) Hem.: Pseudococcidae) in India with brief notes on its biology. Technical Bulletin of the Commonwealth Institute of Biological Control. 13: 59-69.
- Nye, I. W. B.** 1975. The Generic Names of Moths of the World. Volume 1. Noctuoidea (part): Noctuidae, Agaristidae and Nolidae. Londo. Unwin Brothers Ltd. 568 pp.
- Oberthur, C.** 1881. Lepidopteres d'Algerie. Etudes d'Entomologie, 10: 13-35.
- Ochsenheimer, F.** 1816. Die Schmetterlinge von Europa. Vol. 4. Leipzig. Gerhard Fleischer. 224 pp, x.
- Osthelder, L. & Pfeiffer, E.** 1933. Lepidopteren-Fauna von Marasch in Turkisch Nordsyrien. Mitteilungen der Munchner Entomologischen Gessellschaft, 23: 45-102.
- Pathak, S. K. & Yadav, D. N.** 2003. Mass rearing technique of Eublemma scitula Ramb. (Lepidoptera: Noctuidae) an important predator of brown scale, Saissetia coffeae Walker. Journal of Biological Control, 17 (1): 91-94.
- Poole, W.** 1989. Lepidopterorum Catalogus Fasc. 118 Noctuidae Part II. p. 390.
- Rahman, M. M., Ahmed, K. N., Karim, K. N. S. & Ali, M. S.** 2007. Bionomics of Eublemma amabilis Moore (Lepidoptera: Noctuidae), a major predator of lac insect and its control measure. Bangladesh Journal of Scientific and Industrial Research, 44 (1): 57-64.
- Rambur, J. P.** 1833. Duite du Catalogue. Des Lepidopteres de l'île Corse. Annales de la Societe Entomologique de France, 2: 1-59.
- Rambur, J. P.** 1858. Catalogue Systematique des Lepidopteres de l'Andalousie. Paris. J.B. Bailliere. (iv), 412 pp.
- Rebel, H.** 1907a. Zoologische Ergebnisse der Expedition der Kaiserlichen Akademie der Wissenschaften nach Sudarabien und Sokotra im Jahre 1898/99. Lepidopteren. Vienna. No Publisher given. 100 pp.
- Rebel, H.** 1912. Beitrag zur Lepidopternfauna Unter-Aegyptens. Deutsche Entomologische Zeitschrift iris, 26: 65-92.
- Rebel, H.** 1947. Neue Heteroceren aus Aegypten. Zeitschrift der Wiener Entomologischen Gesellschaft, 32: 48-60.
- Rebel, H. & Zerny, H.** 1917. Wissenschaftliche ergebnisse der mit unterstutzung der Kaiserlichen Akademie der Wissenschaften in Wien aus der erbschaft treitl von F. Werner Uunternommenen zoologischen expedition nach dem anglo-agyptischen Sudan (Kordofen) 1914. Denkschriften der Kaiserliche Akademie der Wissenschaften in Wien. Mathcematisch-Naturwissen schaftliche Klasse, 93: 423-446.

- Rossler, A.** 1877. Verzeichniss um Bilbao gefundenes Schmetterlinge. Entomologische Zeitung. Entomologischen Verine zu Stettin, 38: 359-380.
- Rothschild, W.** 1901. Lepidoptera from Egypt and the Sudan. *Novitates Zoologicae*, 7: 274-276.
- Rothschild, W.** 1909. Mauretanisches. *Entomologische Zeitschrift*, 23: 142.
- Rothschild, W.** 1911. Some new Algerian Lepidoptera. *Annals and Magazine of Natural History, Series 8*, 8: 231-233.
- Rothschild, W.** 1912. New Mauretanian moths. *Novitates Zoologicae*, 19: 125-127.
- Rothschild, W.** 1914. A preliminary account of the Lepidopterous fauna of Guelt-Es-Stel, central Algeria. *Novitates Zoologicae*, series 8, 21: 299-357.
- Rothschild, W.** 1915a. Lepidoptera of the M'Zab country, South Algeria, collected by Dr. Ernest Hartert and Carl Hilgert in 1914. *novitates Zoologicae*, 22: 228-243.
- Rothschild, W.** 1915b. On the Lepidoptera collected in 1913-1914 by Herr Geyr von Schweppenburg on journey to the Hoggar Mountains. *Annals and Magazine of Natural History, series 8*, 16: 249-258.
- Rothschild, W.** 1920. Supplemental notes to Mr. Charles Oberthur's Faune de Lepidopteres de la Barbarie, with lists of the specimens in the Tring Museum. *Novitates Zoologicae*, 27: 1-127.
- Rothschild, W.** 1921. Captain Angus Buchanan's air expedition. V. on the Lepidoptera collected by Captain A. Buchanan in Northern Nigeria and the southern Sahara in 1919-1920. *Novitates Zoologicae*, 28: 142-170.
- Rothschild, W.** 1924. Some new or noteworthy Madagascar and African Heterocera. *Annals and Magazine of Natural History, series 9*, 16: 269.
- Rothschild, W.** 1924. some new or noteworthy Madagascar and African Heterocera. *Annals and Magazine of Natural History, Series 9*, 14: 306-317.
- Rothschild, W. & Durrant, J. H.** 1915. Lepidoptera of the British Ornithologists' Union and Wollaston Expeditions in the Snow Mountains, Southern Dutch New Guinea. London. Hazell, Watson and Viney. 182 pp.
- Ruhl, F.** 1890. Ueber eine neue varietat der *Thalpochara rosea* Hb. *Societas Entomologica*. 5: 34.
- Saalmuller, M.** 1891. Lepidopteren von Madagascar. Neue und wenig bekannte Arten zumeist aus der Sammlung der Senckenberg'schen Natureforschenden Gesellschaft zu Frankfurt am Main unter Berücksichtigung der gesammten Lepidopteren-fauna Madagascars. Frankfurt am Main. Werner and Winter. pp. 249-531.
- Schaus, W.** 1904. New species of American Heterocera. *Transactions fo the American Entomological Society*, 30: 135-178.
- Schaus, W.** 1940. Scientific Survey of Porto Rico and the Virgin Islands. Volume XII – Part 2. insects of Porto Rico and the Virgin Islands – Moths of the Family Noctuidae. New York Academy of Sciences. 290 pp.
- Schaus, W. & Clements, W. G.** 1893. On a collection of Sierra Leone Lepidoptera. London. R.H. Porter. 46 pp.
- Schawerda, K.** 1924. Neue arten und formen aus Mesopotamien. *Verhandlungen der k.k. Zoologisch-Botanischen Gesellschaft in Wien*, 73: 158-163.
- Schawerda, K.** 1934. Neue Heteroceren aus Algerien. *Internationale Entomologische Zeitschrift*, 28: 285-287.
- Schwingschuss, L.** 1938. A. Sechster beitrage zur Lepidopterenfauna Inner-Anatoliens. *Entomologische Rundschau*, 55: 411-412.
- Schwingschuss, L.** 1939. Beitrag zur fauna Bithynien, besonders von Boli (jutzt Bolu). *Entomologischche Zeitschrift*, 53: 281-283.

- Seitz, A.** 1909-1914. Die Gross-Schmetterlinge der Erde. Die Gross-Schmetterlinge des Palaearktischen Faunengebietes Band 3. Die Eulenartigen Nachtfalter. Stuttgart. Alfred Kernen. 511 pp.
- Seitz, A.** 1931-1938a. Die Gross-Schmetterlinge der Erde. Volume 3. Supplement. Stuttgart. Alfred Kernen. 333 pp.
- Seitz, A.** 1934-1940b. Die Gross-Schmetterlinge der Erde. Afrikanischen Faunengebietes. Volume 15. Eyulenartige Nachtfalter. Stuttgart. Alfred Kernen. 358 pp.
- Singh, Y., Singh, S. P. & Gupta, S. L.** 1988. Incidence of Eublemma dimidialis Fab. On green gram, *Vigna radiate* (L.) Wilczek at Delhi. Indian Journal of Entomology, 48 (4): 471-473.
- Snellen, P. C. T.** 1872. Bijdrage tot de Vlinder-fauna van Neder-Guinea, zuidwestelijk gedeelte van Afrika. Tijdschrift voor Entomologie, 15: 1-110.
- Snellen, P. C. T.** 1880. Lepidoptera van Celebes verzameld door Mr. M.C. Pipers, met aanteekeningen en beschrijving der nieuwe soorten. Tijdschrift voor Entomologie, 23: 42-138.
- Sodoflsky, C. H. W.** 1837. Etymologische untersuchungen uber die gattungsnamen der Schmetterlinge. Bulletin de la Societe des Naturalistes de Moscou, 10 (6): 76-97.
- Spuler, A.** 1907. Die Schmetterlinge Europas, Band I. Allgemeiner Teil. Spezieller Teil. Stuttgart. E. Schweizerbarsche. 385 pp.
- Staudinger, O.** 1894. Neue Lepidopteren-Arten und Varietaten aus dem palaarktischen Faunengebiet. Deutsche Entomologische Zeitschrift. Gesellschaft Iris zu Dresden, 7: 241-296.
- Staudinger, O.** 1899. Neue Lepidopteren des palaearktischen Faunengebiets. Deutsche Entomologische Zeitschrift. Gesellschaft Iris zu Dresden, 12: 352-402.
- Staudinger, O.** 1878. Lepidopteren-fauna Kleinasiens. Horae Societatis Entomologicae Rossicae, 14: 176-482.
- Staudinger, O.** 1888. Centralasiatische Lepidopteren. Entomologische Zeitung. Entomologischen Vereine zu Stettin, 49: 1-65.
- Staudinger, O.** 1889. Centralasiatische Lepidopteren. Entomologische Zeitung. Entomologischen Vereine zu Stettin, 50: 16-60.
- Staudinger, O.** 1891. Neue arten und Varietaten von Lepidopteren der palaarktischen faunengebiet. Deutsche Entomologische Zeitschrift. Gesellschaft Iris zu Dresden, 4: 224-339.
- Staudinger, O.** 1892. Bemerkungen zu einigen stellen des vorigen heftes dieser zeitung. Entomologische Zeitung. Entomologischen Vereine zu Stettin, 52: 227-234.
- Staudinger, O.** 1897. Neue Lepidopteren aus Palaestina. Deutsche Entomologische Zeitschrift. Gesellschaft Iris zu Dresden, 10: 271-319.
- Staudinger, O.** 1897. Vier neue Heteroceren aus Algerien und Tunesien. Deutsche Entomologische Zeitschrift. Gesellschaft Iris zu Dresden, 10: 265-270.
- Staudinger, O. & Rebel, H.** 1901. Catalog der Lepidopteren des Palaearktischen Faunengebietes. I. Theil: Famil. Papilionidae-Hepialidae. Berlin. R. Friedlander & Shon. 411 pp.
- Staudinger, O. & Wocke, M.** 1871. Catalog der Lepidopteren des Neupaerischen Faunengebiets. Dresden. (No publisher Given). 426.
- Strand, E.** 1920b. H. Sauter's Formosa-asubeute: Noctuidae II Nebst hachtragen zu den familien ARctiidae, Lymantriidae, Notodontidae, Geometridae, Thyrididae, Pyralidae, Tortricidae, Gelechiidae un Oecophoridae. Archiv fur Naturgeschichte, 84A (12): 102-197.
- Swinhoe, C.** 1884. On Lepidoptera collected at Kurrachee. Proceedings of the Zoological Society of London, 1884: 503-529.
- Swinhoe, C.** 1885. On the Lepidoptera of Bombay and the Deccan-Part III. Heterocera (Continued). Proceedings of the Zoological Society of London, 1885: 447-476.

- Swinhoe, C.** 1886. On the Lepidoptera of Mhow, in central India. Proceedings of the Zoological Society of London, 1886: 421-465.
- Swinhoe, C.** 1901. New genera and species of eastern and Australian moths. Annals and Magazine of Natural History, series 7, 7: 463-473.
- Swinhoe, C.** 1907. New eastern, Australian, and African Heterocera. Annals and Magazine of Natural History Society, series 7, 19: 49-56.
- Talbot, G., Prout, A. E. & Prout, L. B.** 1928. New Heterocera from Morocco. Bull. Hill Mus., 2: 32-37.
- Tauscher, A. M.** 1809. Sur quelques noctuelles nouvelles de la Russie. Memoires de la Societe Imperiale des Naturalistes de Moscou, 2: 313-326.
- Treitschke, F.** 1826. Die Schmetterlinge von Europa. Volume Abtheilung 3. Leipzig. Gerhard Fleischer. 420 pp.
- Turati, E.** 1924. Spedizione Lepidotterologica in Cirenaica 1921-1922. Atti della Societa Italiana di Scienze Naturali e del Museo Civico di Storia Naturale in Milano, 53: 201.
- Turati, E.** 1926. Novita di Lepidootterologia in Cirenaica. Atti della Societa Italiana di Scienze Naturali e del Museo Civico di Storia Naturale in Milano, 65: 25-83.
- Turati, E.** 1927. Novita di Lepidootterologia in Cirenaica. Atti della Societa Italiana di Scienze Naturali e del Museo Civico di Storia Naturale in Milano, 66: 313-344.
- Turati, E.** 1934. Novita di Lepidootterologia in Cirenaica. Atti della Societa Italiana di Scienze Naturali e del Museo Civico di Storia Naturale in Milano, 73: 159-212.
- Turati, E. & Kruger, G.** 1936. Contributi alla fauna Cirenaica novita di Lepidotterologia. Memorie della Societa Entomologica Italiana, 15: 55-77.
- Turner, A. J.** 1902. New genera and species of Lepidoptera belonging to the family Noctuidae. Proceedings of the Linnaean Society of New South Wales, 27: 77-136.
- Turner, A. J.** 1909. New Australian Lepidoptera belonging to the family Noctuidae. Proceedings of the Linnaean Society of New South Wales, 34: 341-356.
- Turner, A. J.** 1920. A revision of the Australian Noctuidae. Transactions and Proceedings of the Royal Society of South Australia, 44: 120-189.
- Turner, A. J.** 1929. New Australian Lepidoptera. Transactions and Proceedings of the Royal Society of South Australia, 53: 297-308.
- Turner, A. J.** 1933. New Australian Lepidoptera. Transactions and Proceedings of the Royal Society of South Australia, 57: 159-182.
- Turner, A. J.** 1936. New Australian Lepidoptera. Transactions and Proceedings of the Royal Society of South Australia, 47: 2-27.
- Turner, A. J.** 1944. Studies in Australian Lepidoptera. Transactions and Proceedings of the Royal Society of South Australia, 68: 1-17.
- Turner, A. J.** 1945. New species of Lepidoptera from the Barnard collection. – no.3. Memoirs of the Queensland Museum, 12 (3): 154-163.
- Viette, P. E. L.** 1966. L'entomofaune de l'île Europa. Memoires due Museum Natinoal d'Histoire Naturelle. Nouvelle Serie. Serie A, Zoologie, 41: 191-209.
- Viette, P. E. L.** 1981. Noctuelles quadrifides de Madagascar nouvelles ou peu connus. IX. (Lep. Noctuidae). Bulletin Mensuel de la Societe Linneenne de Lyon, 50: 330-333.
- Villers, C. de** 1789. Caroli Linnaei Entomologica, Faunae Suecicae Depcriptionibus Aucta; etc. Volume 2. Lugduni. Piestre and Delamollier. 656 pp.

- Vives, M. A.** 1995. Primera addenda et corrigenda al "Catalogo sistematico y sinonimico de los lepidopteros de la Peninsula Iberica y Baleares (Segunda Parte)" (Insecta: Lepidoptera). SHILAP Revista de Lepidopterologia, 23 (91): 307-341.
- Walker, F.** (1858) 1857. List of the Specimens of Lepidopterous Insects in the Collection of the British Museum. Volume 13 London. Edward Newman. pp. 983-1236.
- Walker, F.** (1863) 1864. Catalogue of the Heterocerous Lepidopterous Insects collected at Sarawak, in Borneo, by Mr. A.R. Wallace, with Descriptions of New species. Journal of the Proceedings of the Linnaean Society (Zoology), 7: 49-84.
- Walker, F.** 1865. List of the specimens of Lepidopterous Insects in the Collection of the British Museum. Volume 33. London. Edward Newman. pp. 707-1120.
- Wallengren, H. D. J.** 1863. Lepidopterologische Mittheilungen. Wiener Entomologische Monatschrift, 4: 137-151.
- Wallengren, H. D. J.** 1871. Bidrag till kannedom af Fjarilfaunan pa St. Barthelemy. Ofversigt Konglika Vetenskap-Akademiens Forhandlingar, 1871: 909-917.
- Wallengren, H. D. J.** 1875. Insecta Transvaaliensia. – Bidrag till Transvaalska Rupplikens i Sodra Afrika insectenfauna. Oefversigt af Kongl. Vetenskap-Adademiens Forhandlingar, 32 (1): 83-137.
- Walsingham, T. de G. & Hampson, G. F.** 1896. on moths collected at Aden and in Somaliland. Proceedings of the Zoological Society of London, 1896: 257-283.
- Warren, W. & Rothschild, W.** 1905. Lepidoptera from the Sudan. Novitates Zoologicae, 12: 21-33.
- Wileman, A. E.** 1915b. New species of Noctuidae from Formosa. Entomologist., 48: 143-148.
- Wileman, A. E. & West, R. J.** 1929. Descriptions of new species of Noctuidae. Novitates Zoologicae, 35: 1-27.
- Wiltshire, E. P.** 1953. Middle East Lepidoptera. XII: Two new species from southwest Persia (Iran). Proceedings of the Royal Entomological Society of London, 22 (B): 217-219.
- Wiltshire, E. P.** 1961a. Ergebnisse der Deutschen Afghanistan-Expeditions 1956 des Landessammlungen fur Naturkunde Karlsruhe. Middle East Lepidoptera XV. A second contribution to the Lepidoptera of Afghanistan. Beitrage zur Naturkundischen Forschung in Sudwestdeutschland, 19: 337-371.
- Wiltshire, E. P.** 1961b. A new genus, eight new species, seven new forms and notes on the Lepidoptera of Saudi Arabia, Bahrain, and Iran. Journal of the Bombay Natural History Society, 58: 608-631.
- Wiltshire, E. P.** 1971. Oesterreichische Expedition nach Persien und Afghanistan. Beitrage zur Lepidotperenfauna Teil 15. Noctuidae – Quadriinae. Middle East Lepidoptera ZXXVII. Annalen des Naturhistorische Museum in Wien, 75: 627-649.
- Wiltshire, E. P.** 1977. A list of further Lepidoptera-Heterocera from Oman with remarks on their economic importance and descriptions of one new genus, four new species, and two new subspecies. Journal of Oman Studies special Report No. 1. the Scientific Results of the Oman Flora and Fauna Survey, pp. 161-176.
- Wiltshire, E. P.** 1980a. Insects of Saudi Arabia, Lepidoptera: Fam. Cossidae, Limacodidae, Sesiidae, Lasiocampidae, Sphingidae, Notodontidae, Geometridae, Lymantriidae, Nolidae, Arctiidae, Agariidae, Noctuidae, Ctenuchidae, Fauna of Saudi Arabia, 2: 179-251.
- Wiltshire, E. P.** 1980b. The larger moths of Dhofar and their zoogeographic composition. Journal of Oman Studies, Special Report no. 2: 187-216.
- Wiltshire, E. P.** 1982. Insects of Saudi Arabia, Lepidoptera: Fam. Cossidae, Zygaenidae, Sesiidae, Lasiocampidae, Bombycidae, Sphingidae Thaumetopoeidae, Thyretidae, Notodontidae, Geometridae, Lymantriidae, Noctuidae, Ctenuchidae (Part 2). Fauna of Saudi Arabia, 4: 271-332.
- Wiltshire, E. P.** 1990. An illustrated, annotated catalogue of the Macro-Heterocera of Saudi Arabia. Fauna Saudi Arab, 11: 91-250.

Zerny, H. 1935b. Eine neue Noctuidae von de Balkanhalbinsel. Zeitschrift des Oesterreichischen Entomologen-Vereines, 20: 74-75.

Table 1. Country wise number species described.

S. No.	Countries	Number of species described
1.	Afghanistan	5
2.	Algeria	14
3.	Angola	3
4.	Australia	17
5.	Azerbaijan	1
6.	Bahrain	3
7.	Belgium	2
8.	Borneo	3
9.	Cambodia	1
10.	Cameroon	1
11.	China	3
12.	Costa Rica	1
13.	Cuba	1
14.	Egypt	3
15.	Ethiopia	4
16.	Europe	7
17.	France	4
18.	Germany	3
19.	Ghana	7
20.	Hungary	1
21.	India	14
22.	Indonesia	1
23.	Iran	22
24.	Israel	1
25.	Italy	2
26.	Kenya	17
27.	Kyrgyzstan	2
28.	Lebanon	2
29.	Libya	9
30.	Locality not given	3
31.	Madagascar	14
32.	Malawi	4
33.	Mexico	1
34.	Sardinia	1
35.	Morocco	2
36.	Mozambique	1
37.	New Britain	1
38.	New Caledonia	2
39.	New Guinea	7
40.	Niger	3
41.	Nigeria	11
42.	Oman	1
43.	Pakistan	2
44.	Panama	1
45.	Philippines	2
46.	Puerto Rico	2
47.	Reunion	1
48.	Russia	2
49.	Saint Thomas	1
50.	Saudi Arabia	5
51.	Sierra Leone	5
52.	Singapore	1
53.	Somalia	8
54.	South Africa	41
55.	Spain	3
56.	Sri Lanka	2
57.	Sudan	6

58.	Surinam	1
59.	Syria	2
60.	Tahihout	1
61.	Taiwan	3
62.	Tajikistan	1
63.	Tanzania	1
64.	Tonkin	1
65.	Tunisia	2
66.	Turkey	8
67.	Turkmenistan	1
68.	Uganda	3
69.	Uzbekistan	1
70.	West Africa	2
71.	Yemen	21
72.	Zaire	1
73.	Zimbabwe	3
		339

Table 2. Number of species described in different years by authors with respective countries.

S. No.	Author	Number of species	Years	Counties (no. of species described)
1.	Berio	13	1937 - 1954	Ethiopia (4), Madagascar (3), Somalia (5), Zaire (1)
2.	Bethune-Baker	7	1906 -1911	Papua New Guinea (1), Angola (3), Kenya (2), Nigeria (1)
3.	Bienert	1	1869	Iran
4.	Bradley	1	1969	Nigeria
5.	Brandt	11	1938-1941	Iran
6.	Butler	5	1880-1894	Taiwa(1), New Britain(1), Australia(2), Kenya(1)
7.	Bytinski-Salz & Brandt	2	1937	Iran
8.	Candeze	1	1927	Cambodia
9.	Christoph	5	1877-1893	Iran(3) Turkmenistan(1) Azerbaijan(1)
10.	Culot	1	1915	Algeria
11.	Denis & Schiffermuller	1	1775	Tajikistan
12.	Distant	2	1898, 1899	South Africa
13.	Draudt	3	1933-1950	Italy, China, Turkistan
14.	Druce	1	1909	Borneo
15.	Duponchel	2	1842-1843	France
16.	Dyar	2	1919	Costa Rica Mexico
17.	Eversmann	3	1837-1854	Russia (2), Kyrgyzstan(1)
18.	Fabricius	3	1794	France(1) Germany(1) India(1)
19.	Felder & Rogenhofer	4	1874	South Africa (4)
20.	Fibiger & Hacker	17	2002-2006	Yemen (17)
21.	Fletcher	2	1961-1963	Uganda (2)
22.	Freyer	3	1840-1845	Italy (1), Locality not given(1), Lebanon (1)
23.	Gaede	5	1935	Cameroon Niger South Africa Tanzania Madagascar
24.	Guenee	6	1841-1852	Saint Thomas Sierra Leone? South Africa Hungary France Spain
25.	Hampson	93	1891-1918	Algeria (1) Borneo(1) China(1) Ghana(7) India (5)Iran (1)Israel(1)Kenya(12) Malawi (4) New Guinea (1) Nigeria (8) Pakistan (1) Panama (1) Saudi Arabia (1) Sierra Leon (3) Singapore (1) Somalia (3)South Africa (31) Sri Lanka (1) Tunisia(1) Uganda (1) West Africa (1) Yemen (3) Zimbabwe (3)

26.	Herrich-Schaffer	4	1851-1868	Turkey(2) Unknown (1) Cuba (1)
27.	Holloway	2	1979	New Caledonia (2)
28.	Hubner	9	1790-1813	Germany (2) Europe (7)
29.	Joannis	2	1910-1928	Reunion (1) Tonkin (1)
30.	Kruger	3	1939	Libya(3)
31.	Le Cerf	1	1911	Kenya
32.	Lederer	3	1871-1858	Iran (1), Lebanon (1), Syria
33.	Lower	1	1899	Australia(3) Morocco(1)
34.	Lucas	4	1838-1894	Australia
35.	Mabile	3	1880-1900	Madagascar(1), Belgium (2)
36.	Meyrick	1	1902	New Guinea
37.	Milliere	1	1867	Spain
38.	Moore	6	1881	India
39.	Moschler	2	1890	Puerto Rico(1), Surinam(1)
40.	Nagaraja & Nagarkatti	1	1970	India
41.	Oberthur	1	1881	Algeria
42.	Osthelder	1	1933	Turkey
43.	Poole	2	1989	Kenya (1), Medagascar (1)
44.	Prout	1	1928	Morocco
45.	Rambur	3	1833-1858	Spain (1), Libya (1), Sardinia(1)
46.	Rebel	5	1907-1947	Yemen(1), sudan(2), Egypt (2)
47.	Rothschild	21	1901	Egypt (1), Sudan (1), Algeria (9), New Guinea (2)Tahihout (1), Nigeria (3), Medagascar (4)
48.	Saalmuller	3	1891	Madagascar
49.	Schaus	2	1893-1940	Sierra Leone, Puerto Rico
50.	Snellen	2	1872-1880	New Guinea Indonesia
51.	Staudinger	13	1871-1900	Algeria(2), Iran(2), Kyrgyzstan(1), Syria(1), Tunisia(1), Turkey(5), Uzbekistan(1)
52.	Strand	1	1920	Taiwan
53.	Swinhoe	4	1884-1907	India (3), West Africa (1)
54.	Turati	5	1924-1934	Libya
55.	Turner	10	1902-1945	Australia
56.	Viette	2	1966-1981	Mozambique (1), Madagascar (1)
57.	Walker	2	1857-1963	Locality Unknown preserved in NHM London(1), Borneo(1)
58.	Wallengren	2	1863-1875	South Africa
59.	Warren	2	1913	Australia(1), New Guinea(1)
60.	Warren & Rothschild	1	1905	Sudan
61.	Wileman	1	1915	Taiwan
62.	Wileman & West	2	1929	Philippines
63.	Wiltshire	16	1953-1982	Afghanistan (5), Bahrain (3), Iran (1), Oman(1), Saudi Arabia (4), Sudan (2)
	Total	339		