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# ZOOLOGICAL SURVEY OF INDIA

Ministry of Environment, Forest & Climate Change

## ARTHROPODA: INSECTA: NEUROPTERA Linnaeus, 1753

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Comments on the checklist:

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# FAUNA OF INDIA CHECKLIST



# ARTHROPODA: INSECTA: NEUROPTERA, Linnaeus, 1753

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**Introduction:** The order Neuroptera was erected by Linnaeus in 1758, that also included other heterogeneous groups formed of a large number of heterometabolic and holometabolic insects which later on as the taxonomy progressed, were divided into separate orders. Their lineages first appeared during the Permian period which continued to diversify throughout the Mesozoic era. It belongs to superorder Neuropterida which includes Raphidioptera + (Megaloptera + Neuroptera). They are found in all the temperate and tropical parts of the world however; they seldom represent a major component of the overall insect fauna. Neuropterans possess two distinct features that make them unique creatures. Firstly, they are predators (especially larvae) and play an important role in protection against various agricultural and horticulture pests (Tauber *et al.*, 2000). Secondly, presence of two pairs of membranous wings with reticulate venations hence, their name as lacewings.

**Global diversity:** They are represented by approximately 5,940 species under 15 families worldwide.

**Diversity in India:** In India 337 species and 5 sub species under 119 genera belonging to 11 families and are present. Out of these 166 species are endemic to India.

**Endemism:** There is no exact criterion to assign a given species as endemic to India for Neuroptera as with the recent publication many

species reported from India have been recorded from adjoining countries especially Nepal, Bhutan, China, Pakistan, Thailand, and Myanmar. Still based on the published literature about 160 species are endemic to India.

**Habitat:** Neuropteran adults are terrestrial and mostly associated with the aerial parts of plants, where they settle or hunt for prey. Many species belonging to Myrmeleontidae are active members of the litter fauna while some Coniopterygidae and Hemerobiidae are geophilous and are associated with ground substrates such as rocks, sand, or soil.

**Ecological Significance:** Due to their predatory behaviour, Neuropterans are used in agriculture. The voracious feeding capability, as well as active mobile prey-searching behaviour revealed by the larvae of species particularly of Chrysopidae, Hemerobiidae, and Coniopterygidae makes them active biological control agents of most important pests of agriculture and horticulture (Senior and McEwen 2001).

**Threatened species:** Species from India are not assessed for IUCN threat categories.

**Protected Species as per WPA (2022):** No Neuropteran species are listed under any schedules of Wildlife Protection Act (2022).

**Species under CITES:** Indian Neuroptera are



not listed under any appendices of CITES.

**Invasive alien species:** No Neuropteran species are reported to be invasive in India.

**Gap areas:** Neuroptera fauna in India is underrepresented, as we can see a few states like West Bengal, Maharashtra, Karnataka, Tamil Nadu, Sikkim have been well surveyed and

documented properly however, states/ UTs like Andhra Pradesh, Nagaland, Andaman & Nicobar, Daman Nagar Haveli, Daman & Diu, Ladakh, Jammu & Kashmir which represent different biogeographic zones and part of biodiversity hotspots have not been surveyed. So, need of the hour is to update the species data from such regions.

### Systematic list:

#### Order Neuroptera Linnaeus, 1758

##### Family Berothidae Handlirsch, 1908

1. *Berotha indica* (Brauer, 1865)
2. *Berotha insolita* Walker, 1860
3. *Isoscelipteron nicobaricum* (Navás, 1912)
4. *Lekrugeria lineata* Navás, 1929

##### Family Chrysopidae Schneider, 1851

5. *Apochrysa evanida* Gerstaecker, 1894
6. *Apochrysa matsumurae* Okamoto, 1912
7. *Joguina nicobarica* (Brauer, 1864)
8. *Joguina unimaculata* Winterton *et al.*, 2021
9. *Ankylopteryx (Ankylopteryx) octopunctata* (Fabricius, 1793)  
*Ankylopteryx (Ankylopteryx) octopunctata candida* (Fabricius, 1798)
10. *Ankylopteryx (Ankylopteryx) tessellata* Needham, 1909
11. *Ankylopteryx (Sencera) anomala* Brauer, 1864
12. *Chrysopidia fuscata* Navás, 1914
13. *Chrysopidia ignobilis* (Walker, 1860)
14. *Chrysopidia manipurensis* Ghosh, 1990
15. *Chrysopidia nigrata* Navás, 1910
16. *Chrysopidia numerosa* Navás, 1914
17. *Retipenna dasyphlebia* (McLachlan, 1894)
18. *Retipenna hasegawai* (Nakahara, 1955)
19. *Retipenna notata* (Navás, 1910)
20. *Retipenna variegata* Brooks, 1986
21. *Semachrysa contorta* Brooks, 1983
22. *Semachrysa matsumurae* (Okamoto, 1914)
23. *Semachrysa polysticta* Brooks, 1983
24. *Signochrysa mira* (Navás, 1914)
25. *Tumeochrysa cirerai* (Navás, 1930)
26. *Tumeochrysa indica* Needham, 1909
27. *Chrysacanthia esbeniana* Lacroix, 1923
28. *Evanochrysa infecta* (Newman, 1838)
29. *Italochrysa aequalis* (Walker, 1853)
30. *Italochrysa carletoni* (Banks, 1939)
31. *Italochrysa flavobrunnea* Ghosh, 1981
32. *Italochrysa henryi* (Kimmings, 1938)
33. *Italochrysa japonica* (McLachlan, 1875)
34. *Italochrysa lefroyi* (Needham, 1909)
35. *Italochrysa robusta* (Needham, 1909)



36. *Italochrysa stitzi* (Navás, 1925)
  37. *Italochrysa talaverae* (Navás, 1928)
  38. *Nesochrysa elisabethae* Navás, 1928
  39. *Stigmachrysa cladostigma* (Navás, 1913)
  40. *Apertochrysa alcestes* (Banks, 1911)
  41. *Apertochrysa astur* (Banks, 1937)
  42. *Apertochrysa chailensis* (Ghosh, 1977)
  43. *Apertochrysa kinnaurensis* (Ghosh, 1977)
  44. *Apertochrysa murrensis* (Tjeder, 1963)
  45. *Brinckochrysa scelestes* (Banks, 1911)
  46. *Chrysopa bandrensis* (Navás, 1929)
  47. *Chrysopa bandrina* Navás, 1935
  48. *Chrysopa benaventi* (Navás, 1930)
  49. *Chrysopa cymbele* Banks, 1933
  50. *Chrysopa himalayana* Ghosh, 1985
  51. *Chrysopa naesonympha* Brauer, 1865
  52. *Chrysopa pallens* (Rambur, 1838)
  53. *Chrysopa smitzi* Navás, 1914
  54. *Chrysopa vilallongai* Navás, 1940
  55. *Chrysopa virgestes* Banks, 1911
  56. *Chrysoperla carnea* (Stephens, 1836)
  57. *Chrysoperla congrua* (Walker, 1853)
  58. *Chrysoperla mutata* (McLachlan, 1898)
  59. *Chrysoperla oblita* (Hölzel, 1973)
  60. *Chrysoperla orestes* (Banks, 1911)
  61. *Chrysoperla zastrowi* (Esben-Petersen, 1928)  
*Chrysoperla zastrowi sillemi* (Esben-Petersen, 1935)
  62. *Cunctochrysa albolineata* (Killington, 1935)
  63. *Cunctochrysa jubingensis* (Hölzel, 1973)
  64. *Glenochrysa gloriosa* (Navás, 1931)
  65. *Glenochrysa marmorata* (Needham, 1909)
  66. *Glenochrysa splendida* (van der Weele, 1909)
  67. *Glenochrysa zeylanica* (Banks, 1913)
  68. *Kuwayamachrysa kichijoi* (Kuwayama, 1936)
  69. *Mallada bertrani* (Navás, 1931)
  70. *Mallada caesus* (Navás, 1929)
  71. *Mallada desjardinsi* (Navás, 1911)
  72. *Mallada ectoflagellatus* Bhattacharya & Dey, 2002
  73. *Mallada garhwalensis* (Ghosh, 1985)
  74. *Mallada herasimus* (Navás, 1929)
  75. *Mallada ignitus* (Navás, 1910)
  76. *Mallada khandalensis* (Navás, 1932)
  77. *Mallada khandalinus* (Navás, 1931)
  78. *Mallada madestes* (Banks, 1911)
  79. *Mallada obvius* (Hölzel, 1973)
  80. *Mallada rocasolanoi* (Navás, 1929)
  81. *Plesiochrysa dussumieri* (Navás, 1912)
  82. *Plesiochrysa lacciperda* (Kimmins, 1955)
  83. *Plesiochrysa ruficeps* (McLachlan, 1875)
  84. *Nothochrysa indigena* Needham, 1909
- Family Coniopterygidae Burmeister, 1839**
85. *Helicoconis premnata* Rausch, Aspöck, H. & Aspöck, U., 1981



86. *Helicoconis tjederi* Rausch, Aspöck, H. & Aspöck, U., 1981
87. *Heteroconis terminalis* (Banks, 1913)
88. *Semidalis aleyrodiformis* (Stephens, 1836)
89. *Semidalis decipiens* (Roepke, 1916)
90. *Spiloconis cerata* (Hagen, 1858)
91. *Spiloconis eominuata* Grimaldi, Engel, Nascimbene, & Singh, 2013
92. *Coniocompsa indica* Withycombe, 1925
93. *Coniopteryx ambigua* Withycombe, 1925
94. *Coniopteryx exigua* Withycombe, 1925
95. *Coniopteryx goniocera* Meinander, 1972
96. *Coniopteryx obtusa* Withycombe, 1925
97. *Coniopteryx prehensilis* Murphy & Lee, 1971
98. *Coniopteryx topali* Sziráki, 1992
99. *Conwentzia inverta* Withycombe, 1925
100. *Nimboa basipunctata* Withycombe, 1925
101. *Nimboa immaculata* Withycombe, 1925

**Family Dilaridae Newman, 1853**

102. *Dilar austroindicus* Li, D., Aspöck, H., Aspöck, U. & Liu, X.-Y., 2020
103. *Dilar biprojectus* Li, D., Aspöck, H., Aspöck, U. & Liu, X.-Y., 2020
104. *Dilar geometroides* Aspöck, H. & Aspöck, U., 1968
105. *Dilar harmandi* (Navás, 1909)
106. *Dilar hornei* McLachlan, 1869
107. *Dilar vartianorum* Aspöck, H. & Aspöck, U., 1967
108. *Neonallachus annandalei* Nakahara, 1963

**Family Hemerobiidae Latreille, 1802**

109. *Drepanacra khasiana* (Kimmins, 1940)
110. *Drepanepteryx falcuoides* Walker, 1860
111. *Neuronema albstigma* (Matsumura, 1907)
112. *Neuronema assamense* Kimmins, 1943
113. *Neuronema decisum* (Walker, 1860)
114. *Neuronema indicum* Navás, 1928
115. *Neuronema irroratum* Kimmins, 1943
116. *Hemerobius bispinus* Banks, 1940
117. *Hemerobius cercodes* Navás, 1917
118. *Hemerobius harmandinus* Navás, 1910
119. *Hemerobius hedini* Tjeder, 1936
120. *Hemerobius humulinus* Linnaeus, 1758
121. *Hemerobius indicus* Kimmins, 1938
122. *Hemerobius solanensis* Ghosh, 1976
123. *Wesmaelius altissimus* (Ohm, 1967)
124. *Megalomus setosulus* (Walker, 1860)
125. *Micromus australis* Hagen, 1858
126. *Micromus calidus* Hagen, 1859
127. *Micromus igorotus* Banks, 1920
128. *Micromus kapuri* (Nakahara, 1971)
129. *Micromus linearis* Hagen, 1858
130. *Micromus timidus* Hagen, 1853
131. *Micromus umbrosus* Navás, 1931
132. *Neomicromus agarwalai* Ghosh, 1990
133. *Notiobiella viridinervis* Banks, 1913
134. *Psectra iniqua* (Hagen, 1859)

**Family Mantispidae Leach in Brewster, 1815**



135. *Austroclimaciella brianti* (Navás, 1914)
136. *Austroclimaciella quadrituberculata* (Westwood, 1852)
137. *Campanacella hamiltonella* (Westwood, 1867)
138. *Euclimacia cottami* Navás, 1914
139. *Euclimacia nicobarica* Kaur, Pandher, Chandra & Dubey, 2021
140. *Euclimacia nodosa* (Westwood, 1847)
141. *Euclimacia similis* Kaur, Pandher, Chandra & Dubey, 2021
142. *Euclimacia woodhousei* Navás, 1914
143. *Eumantispia pseudoharmandi* Yang & Liu, 2010
144. *Eumantispia rugicollis* (Navás, 1905)
145. *Eumantispia tibetana* Yang, 1988
146. *Mantispia alicante* Banks, 1913
147. *Mantispia cora* Newman, 1838
148. *Mantispia maindroni* Navás, 1909
149. *Mantispia nabota* (Olivier, 1797)
150. *Mantispilla coorgensis* (Ohl, 2004)
151. *Mantispilla indica* (Westwood, 1852)
152. *Mantispilla lineolata* (Westwood, 1852)
153. *Mantispilla salana* Navás, 1931
154. *Necyla sacra* Navás, 1914
155. *Necyla formosana* (Okamoto, 1910)
156. *Tuberontha regia* (Navás, 1930)

**Family Myrmeleontidae Latreille, 1802**

157. *Acheron longus* (Walker 1853)
158. *Agrionosoma dohrni* van der Weele, 1909
159. *Agrionosoma swinhoei* van der Weele, 1909
160. *Ascalaphodes canifrons* (Westwood, 1847)
161. *Ascalaphus abdominalis* (Kimmins, 1949)
162. *Ascalaphus dicax* Walker, 1853
163. *Ascalaphus prothoracicus* (Kimmins, 1949)
164. *Ascalaphus sinister* Walker, 1853
165. *Ascalohybris angulata* (Westwood, 1847)
166. *Ascalohybris javana* (Burmeister, 1839)
167. *Ascapseudoptynx furcifer* (van der Weele, 1909)
168. *Bubopsis zarudnyi* Martynova, 1926
169. *Glyptobasis cornuta* Kimmins, 1949
170. *Glyptobasis dentifera* (Westwood, 1847)
171. *Glyptobasis nigrifrons* Kimmins, 1949
172. *Glyptobasis nugax* (Walker, 1853)
173. *Glyptobasis sonjae* Ábrahám, 2024
174. *Glyptobasis weelei* Kimmins, 1949
175. *Ogcogaster kempfi* Fraser, 1922
176. *Ogcogaster kirbyi* van der Weele, 1909
177. *Ogcogaster segmentator* Westwood, 1847
178. *Ogcogaster tessellata* (Westwood, 1847)
179. *Parascalaphus oreobius* Martynova, 1926
180. *Protacheron philippinensis* (van der Weele, 1904)
181. *Protacheron westermanni* Esben-Petersen, 1933
182. *Protidricerus elwesii* (McLachlan, 1891)
183. *Pseudobubopsis rubrapunctata* (Ghosh, 1981)
184. *Siphlocerus nimius* (Walker, 1853)
185. *Stylascalaphus obscurus* (Westwood, 1847)



186. *Suhalacsa obscurus* Fraser, 1922
187. *Suhalacsa orsedice* Banks, 1914
188. *Suphalomitus brevis* Kimmins, 1949
189. *Suphalomitus parvus* Kimmins, 1949
190. *Suphalomitus verbosus* (Walker, 1853)
191. *Echthromyrmex orientalis* McLachlan, 1873
192. *Idricerus decrepitus* (Walker, 1860)
193. *Idricerus sogdianus* McLachlan, 1875
194. *Indopalpares pardus* (Rambur, 1842)
195. *Palparellus astutus* (Walker, 1853)
196. *Palpares astarte* Banks, 1913
197. *Palpares contrarius* (Walker, 1853)
198. *Palpares patiens* (Walker, 1853)
199. *Palpares rajasthanicus* Ghosh, 1991
200. *Palpares tigroides* (Walker, 1860)
201. *Palpares zebratus* Rambur, 1842
202. *Stenares acutus* Ghosh, 1990
203. *Stenares frazeri* Banks, 1931
204. *Stenares harpyia* (Gerstaecker, 1863)
205. *Stenares hyaena* (Dalman, 1823)
206. *Stenares improbus* (Walker, 1853)
207. *Tomatares clavicornis* (Latreille, 1829)
208. *Tomatares pardalis* (Fabricius, 1781)
209. *Layahima contracta* (Walker, 1860)
210. *Dendroleon regius* (Navás, 1914)
211. *Epacanthaclisis continentalis* Esben-Petersen, 1935
212. *Gatzara benaci* Navás, 1935
213. *Gatzara insolita* (Walker, 1860)
214. *Gatzara jubilaea* Navás, 1915
215. *Indoclystus singularis* (Westwood, 1847)
216. *Nuglerus scalaris* Navás, 1912
217. *Acanthaclisis occitanica* (Villers, 1789)
218. *Centroclisis bandrensis* (Navás, 1934)
219. *Centroclisis distincta* (Rambur, 1842)
220. *Centroclisis eustalacta* (Gerstaecker, 1863)
221. *Centroclisis indica* (Banks, 1911)
222. *Centroclisis lutea* Navás, 1912
223. *Stiphronera inclusa* (Walker, 1853)
224. *Syngenes horridus* (Walker, 1853)
225. *Syngenes palpalis* Banks, 1931
226. *Iranoleon afghanus* (Kimmins, 1950)
227. *Myrmecaelurus acerbus* (Walker, 1853)
228. *Myrmecaelurus trigrammus* (Pallas, 1771)
229. *Myrmecaelurus zigan* Aspöck, H., Aspöck, U., Hölzel, & Rausch, 1980
230. *Nohoveus implexus* (Walker, 1853)
231. *Solter felderi* Navás, 1912
232. *Solter truculentus* (Walker, 1853)
233. *Baliga jamduarensis* (Ghosh, 1984)
234. *Baliga montana* (Navás, 1930)
235. *Baliga monticola* Navás, 1937
236. *Baliga nicobarica* (Brauer, 1865)
237. *Baliga pupillata* (Navás, 1905)



238. *Hagenomyia euryticta* (Gerstaecker, 1885)
239. *Hagenomyia sagax* (Walker, 1853)
240. *Hagenomyia sumatrensis* (van der Weele, 1909)
241. *Myrmeleon assamensis* Ghosh, 1984
242. *Myrmeleon berenice* Banks, 1913
243. *Myrmeleon clothilde* Banks, 1913
244. *Myrmeleon ermineus* Fabricius, 1798
245. *Myrmeleon frontalis* (Burmeister, 1839)
246. *Myrmeleon fulvescens* (Navás, 1934)
247. *Myrmeleon hyalinus* Olivier, 1811
248. *Myrmeleon inanis* Gerstaecker, 1894
249. *Myrmeleon indicus* (Navás, 1921)
250. *Myrmeleon marginicollis* Gerstaecker, 1894
251. *Myrmeleon mediatus* (Navás, 1931)
252. *Myrmeleon obducens* Walker, 1860
253. *Myrmeleon oberthuri* (Navás, 1923)
254. *Myrmeleon periculosus* Walker, 1853
255. *Myrmeleon punctatus* Fabricius, 1787
256. *Myrmeleon tenuipennis* Rambur, 1842
257. *Myrmeleon trivialis* Gerstaecker, 1885
258. *Myrmeleon ursinus* Fabricius, 1798
259. *Cueta abdominalis* Navás, 1930
260. *Cueta angulensis* Ghosh, 1984
261. *Cueta bolangirensis* Ghosh, 1984
262. *Cueta facile* Banks, 1939
263. *Cueta infensa* (Walker, 1853)
264. *Cueta kurzi* (Navás, 1912)
265. *Cueta levis* Navás, 1931
266. *Cueta lineosa* (Rambur, 1842)
267. *Cueta maindroni* Navás, 1923
268. *Cueta perpunctata* (Banks, 1931)
269. *Cueta punctulata* (Rambur, 1842)
270. *Cueta salai* Navás, 1929
271. *Banyutus cubitalis* (Navás, 1914)
272. *Creoleon cinnamomeus* (Navás, 1913)
273. *Creoleon griseus* (Klug in Ehrenberg, 1834)
274. *Creoleon irene* (Banks, 1939)
275. *Delfimeus intricatus* (Hölzel, 1972)
276. *Distoleon bisoiensis* Ghosh, 1984
277. *Distoleon bistrigatus* (Rambur, 1842)
278. *Distoleon bivittatus* (Banks, 1914)
279. *Distoleon cerdo* (Gerstaecker, 1894)
280. *Distoleon dirus* (Walker, 1853)
281. *Distoleon lebasinus* (Navás, 1931)
282. *Distoleon levis* (Navás, 1914)
283. *Distoleon marcida* (Banks, 1939)
284. *Distoleon nefandus* (Walker, 1853)
285. *Distoleon pallidus* (Navás, 1934)
286. *Distoleon pallipennis* Banks, 1939
287. *Distoleon plebejus* (Navás, 1914)
288. *Distoleon pugnax* (Walker, 1853)
289. *Distoleon rhegmalis* (Navás, 1931)



290. *Distoleon rhodocerus* (Navás, 1929)  
 291. *Distoleon sambalpurensis* Ghosh, 1984  
 292. *Distoleon substigmalis* (Navás, 1917)  
 293. *Distoleon umbratus* (Navás, 1930)  
 294. *Distoleon verendus* (Walker, 1853)  
 295. *Ganguilus indicus* Michel & Mansell, 2010  
 296. *Geyria lepidula* (Navás, 1912)  
 297. *Indophanes audax* (Walker, 1853)  
 298. *Indophanes barbarus* (Walker, 1853)  
 299. *Indophanes infestus* (Walker, 1853)  
 300. *Macronemurus trivittatus* Banks, 1911  
 301. *Negrokus lebasi* Navás, 1930  
 302. *Neuroleon apicalis* Navás, 1915  
 303. *Neuroleon diana* Hölzel, 1972  
 304. *Neuroleon diffusus* (Navás, 1914)  
 305. *Neuroleon guernei* Navás, 1914  
 306. *Neuroleon guptaii* Ghosh, 1984  
 307. *Neuroleon pallidus* (Banks, 1939)  
 308. *Neuroleon reticulatus* (Navás, 1930)  
 309. *Neuroleon unpunctatus* Ghosh, 1981  
 310. *Nemoleon ghoshi* Balakrishnan, Ábrahám, Bijoy, 2023  
 311. *Nemoleon madayi* Balakrishnan, Ábrahám, Bijoy, 2023

**Family Nempidae Rambur, 1842**

312. *Croce filipennis* (Westwood, 1841)  
 313. *Halter albostigma* (Westwood, 1874)  
 314. *Halter nutans* Navás, 1910

**Family Osmylidae Leach in Brewster, 1815**

315. *Lahulul babaulti* Navás, 1930  
 316. *Osmylus punctipennis* Walker, 1860  
 317. *Parosmylus belae* Ghosh & Sen, 1968  
 318. *Parosmylus prominens* Needham, 1909  
 319. *Gryposmylus pubicosta* (Walker, 1860)  
 320. *Heterosmylus aspersus* Krüger, 1913  
 321. *Spilosmylus darjeelingensis* Ghosh, 2000  
 322. *Spilosmylus lineatocollis* (McLachlan, 1870)  
 323. *Spilosmylus pretiosus* (Banks, 1931)  
 324. *Spilosmylus tuberculatus* (Walker, 1853)  
 325. *Thaumatomylus conspersus* (Walker, 1853)  
 326. *Thyridosmylus langii* (McLachlan, 1870)  
     *Thyridosmylus langii angustus* Kimmins, 1942  
 327. *Thyridosmylus perspicillaris* (Gerstaecker, 1885)  
     *Thyridosmylus perspicillaris fenestratus* Kimmins, 1942  
     *Thyridosmylus perspicillaris minor* Kimmins, 1942  
 328. *Thyridosmylus pustulatus* Kimmins, 1942

**Family Sisyridae Hagen, 1873**

329. *Sisyra fasciata* Navás, 1930  
 330. *Sisyra indica* Needham, 1909  
 331. *Sisyra miera* Monserrat, 1981  
 332. *Sisyra mononoke* Szöke, 2023  
 333. *Sisyra flavicornis* (Comstock, 1918)  
 334. *Sisyra nirvana* Banks, 1939

**Family Ithonidae Newman, 1853**



335. *Rapisma almoratum* P. Barnard, 1981  
336. *Rapisma tamilanum* P. Barnard, 1981  
337. *Rapisma viridipenne* (Walker, 1853)

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