

# FAUNA OF INDIA CHECKLIST

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## ARTHROPODA: INSECTA: PSOCODEA: 'PSOCOPTERA'

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**ZOOLOGICAL SURVEY OF INDIA**  
Ministry of Environment, Forest & Climate Change

# ARTHROPODA: INSECTA: PSOCODEA: 'PSOCOPTERA'

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**Introduction:** The order Psocodea includes parasitic lice of birds and mammals (Phthiraptera), free-living booklice and barklice (Psocoptera). Earlier, Phthiraptera and Psocoptera were regarded to represent separate orders. However, morphological and molecular studies have revealed that the Phthiraptera is actually a part of the Psocoptera. It is one of the lesser-known orders of paraneopteran insects, distributed worldwide in a wide range of terrestrial environments.

**Global diversity:** The order has around 6000 described species spread across all continents (Lienhard, 2016).

**Diversity in India:** In India, 139 species belonging to 66 genera and 22 families in three suborders are recorded and highest species diversity is reported from West Bengal and followed by Maharashtra, Kerala, Tamil Nadu, Meghalaya and Assam. After gap of two decades the new species and new country records of psocids were described and published (Ramesh *et al.*, 2020, 2021, 2022). State wise species diversity and endemism is provided in the table-1.

Table-01. Diversity in States

Sl. No.	State/UT	No. of species	No. of Endemic species
	<b>INDIA TOTAL</b>	<b>139</b>	<b>63</b>
1	Andhra Pradesh	0	0
2	Arunachal Pradesh	4	1
3	Assam	13	7
4	Bihar	0	0
5	Chhattisgarh	0	0
6	Gujarat	0	0
7	Goa	0	0
8	Haryana	0	0
9	Himachal Pradesh	0	0
10	Jharkhand	2	1
11	Karnataka	1	0
12	Kerala	23	4
13	Madhaya Pradesh	0	0
14	Maharashtra	28	18

Sl. No.	State/UT	No. of species	No. of Endemic species
15	Manipur	8	5
16	Meghalaya	18	4
17	Mizoram	0	0
18	Nagaland	0	0
19	Odisha	1	1
20	Punjab	0	0
21	Rajasthan	0	0
22	Sikkim	0	0
23	Tamil Nadu	23	10
24	Telangana	0	0
25	Tripura	7	3
26	Uttarpradesh	0	0
27	Uttarakhand	8	3
28	West Bengal	45	16
29	Andaman & Nicobar	1	0
30	Chandigarh	0	0
31	Dadra Nagar Haveli, Daman & Diu	0	0
32	Delhi	0	0
33	Jammu & Kashmir	7	5
34	Ladakh	0	0
35	Lakshadweep	0	0
36	Puducherry	0	0

**Endemism:** Sixty-two species are endemic to India. High endemism is reported from the Western Ghats of Tamil Nadu, Kerala, Maharastra and Indian Himalaya of Jammu and Kashmir, Uttarakhand, West Bengal (North Bengal) and Arunachal Pradesh.

**Habitat:** Psocids are lives on tree trunks and branches, under barks, leaf litter, rocks and in nest of birds and mammals, old books, cereals, and room walls. They are scavengers and generally not only feed on fungi, algae, lichen, and organic detritus but also known to feed on stored grains, museum specimens and books.

**Ecological Significance:** The psocids graze on honeydew moulds and other coverings which reduces photosynthesis and enhance light penetration through leaves. They are prey to a variety of arboreal predators and thus being important components of complex arboreal food webs. They are important indicators of habitat quality, such as air pollution in industrial areas (Mey and Tietze, 1979).

**Human Significance:** Some psocids are allergen and minor pest for stored grains.

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

**Protected Species as per WPA (2022):** Psocids are not listed under any schedules of Wildlife Protection Act (2022).

**Species under CITES:** Psocids are not listed under any appendices of CITES.

**Invasive alien species:** No Psocids species are reported to be invasive in Indian environments.

**Gap areas:** Psocids are poorly documented from many states, especially from states of Deccan, Gangetic plains, Himalaya and North Eastern India biogeographic zones and union territories and Western Ghats of Karnataka and Goa. There are no reports of Psocids from 15 states and six union territories.

**Systematic list** (Endemic species marked with \*)

**PSOCODEA Hennig, 1966**

**ARCHIPSOCIDAE Pearman, 1936**

1. *Archipsocopsis fernandi* (Pearman, 1934)
2. *Archipsocus recens* Enderlein, 1903

**AMPHIPSOCIDAE Pearman, 1936**

3. *Amphipsocus heterothrix* Thornton and Wong, 1966
4. *Amphipsocus pilosus* McLachlan, 1872
5. *Taenostigma ingens* Enderlein, 1903
6. *Dasypsocus solox* (Enderlein, 1903)
7. *Kolbia punctata* (Banks, 1914)\*
8. *Kodamaius anaimalaicus* (Datta, 1969)\*
9. *Kodamaius besucheti* Badonnel, 1981\*
10. *Kodamaius khasiensis* Badonnel, 1981\*
11. *Kodamaius loebli* Badonnel, 1981\*
12. *Kodamaius mirabundus* (Datta, 1969)

**CAECILIUSIDAE Mockford, 2000**

13. *Asiocaecilius assamensis* Mockford, 2000\*
14. *Thorntoniella lalea* (Thornton, 1984)
15. *Caecilius bhimtalensis* Badonnel, 1981\*
16. *Caecilius latreillei* Badonnel, 1981
17. *Caecilius persimularis* (Thornton and Wong, 1966)
18. *Dypsocopsis nathani* Mockford, 2000\*
19. *Dypsocus coleopratus* (Hagen, 1858)
20. *Dypsocus fucosus* Thornton and Wong, 1966
21. *Coryphosmila dolabrata* (Hagen, 1858)
22. *Stenocaecilius pictifrons* (Thornton and Wong, 1966)
23. *Valenzuela bengalensis* (Badonnel, 1981)\*
24. *Valenzuela furculatus* (Navas, 1934)\*
25. *Valenzuela himalayanus* (Enderlein, 1903)
26. *Valenzuela indicus* (Navas, 1934)\*
27. *Valenzuela labratus* (Navas, 1934)\*
28. *Valenzuela mueggenburgi* (Enderlein, 1903)

**PARACAECILIIDAE Mockford, 1989**

29. *Enderleinella ceylonica* (Enderlein, 1903)
30. *Enderleinella flavata* (Navas, 1934)\*
31. *Paracaecilius navasi* Mockford, 2000\*

**STENOPSOCIDAE Pearman, 1936**

32. *Stenopsocus pallidus* Thornton and Wong, 1966
33. *Stenopsocus uniformis* (Hagen, 1859)

**DOLABELLOPSOCIDAE Eertmoed, 1973**

34. *Auroropsocus orientis* Eertmoed, 1973
35. *Bertkauia loebli* (Badonnel, 1981)\*

**EIPSOCIDAE Mockford, 2000**

36. *Epipsocopsis completa* (Banks, 1916)
37. *Epipsocopsis conspersa* (Banks, 1914)\*

38. *Epipsocopsis costalis* (Banks, 1914)
39. *Epipsocopsis dubia* (Karny, 1925)
40. *Hinduipsocus annulipes* Badonnel, 1981\*
41. *Hinduipsocus atratus* Badonnel, 1981\*

#### **ECTOPSOCIDAE Roesler, 1944**

42. *Ectopsocus annandalei* Datta, 1969\*
43. *Ectopsocus bengalensis* Datta, 1965\*
44. *Ectopsocus briggsi* McLachlan, 1899
45. *Ectopsocus cinctus* Thornton, 1962
46. *Ectopsocus denudatus* Enderlein, 1903\*
47. *Ectopsocus myrmecophilus* (Enderlein, 1903)
48. *Ectopsocus pilosus* Badonnel, 1968
49. *Ectopsocus pumilis* (Banks, 1920)
50. *Ectopsocus ramburi* Datta, 1965\*
51. *Ectopsocus maindroni* Badonnel, 1935

#### **ELIPSOCIDAE Pearman, 1936**

52. *Elipsocus rubrostigma* Navas, 1934\*

#### **LACHESILLIDAE Pearman, 1936**

53. *Lachesilla falcicula* Badonnel, 1981
54. *Lachesilla pedicularia* (Linnaeus, 1758)
55. *Lachesilla sonamarga* Garcia Aldrete, 1988\*
56. *Lachesilla tectorum* Badonnel, 1931
57. *Lachesilla aethiopica* (Enderlein, 1902)
58. *Lachesilla vellimalai* Ramesh, Babu, Subramanian and Garcia-Aldrete, 2021\*

#### **PERIPSOCIDAE Roesler, 1944**

59. *Diplopsocus anoplus* (Thornton and Wong, 1968)
60. *Diplopsocus dachigamensis* (Badonnel, 1981)\*
61. *Diplopsocus punctigaster* (Datta, 1969)\*
62. *Diplopsocus similaris* (Badonnel, 1981)\*
63. *Diplopsocus sinensis* (Datta, 1963)\*
64. *Peripsocus bhaktai* Badonnel, 1981\*
65. *Peripsocus brunneus* Datta, 1965\*
66. *Peripsocus hinduensis* Garcia Aldrete, 1999\*
67. *Peripsocus kashmirensis* Badonnel, 1981\*
68. *Peripsocus quercicola* Enderlein, 1906
69. *Peripsocus sclerotus* Thornton and Wong, 1966\*

#### **PSEUDOCAECILIIDAE Pearman, 1936**

70. *Allocaecilius heterothorax* Lee and Thornton, 1967\*
71. *Phallocaecilius indicus* Ramesh, Babu and Subramanian, 2022\*
72. *Heterocaecilius fuscipalpus* Lee and Thornton, 1967
73. *Mesocaecilius pictipennis* (McLachlan, 1872)
74. *Ophiodopelma multipunctatum* (Hagen, 1859)
75. *Pseudocaecilius citricola* (Ashmead, 1879)
76. *Pseudocaecilius fletcheri* Datta, 1965\*
77. *Pseudocaecilius lanatus* (Hagen, 1859)
78. *Scytopsocopsis hirtipenna* Lee and Thornton, 1967

#### **HEMIPSOCIDAE Pearman, 1936**

79. *Hemipsocus chloroticus* (Hagen, 1858)
80. *Hemipsocus ornatus* Datta, 1969
81. *Hemipsocus rubellis* Navas, 1934\*

#### **MYOPSOCIDAE Pearman, 1936**

82. *Lichenomima aldretei* Ramesh, Babu & Subramanian, 2023\*

83. *Lichenomima indica* Datta, 1969\*
84. *Myopsocus fraternus* McLachlan, 1866\*
85. *Myopsocus pluviosus* Navas, 1934\*
86. *Myopsocus australis* (Brauer, 1865)
87. *Thorntonodes pattoni* (Datta, 1966)\*

#### **PSOCIDAE Hagen, 1865**

88. *Blaste (Euclismia) cinerea* (Enderlein, 1903)\*
89. *Clematostigma indicum* (Enderlein, 1903)\*
90. *Metylophorus nebulosus* (Stephens, 1836)
91. *Metylophorus paranebulosus* New, 1978
92. *Psocidus nubilus* (Navas, 1934)\*
93. *Psocidus salai* (Navas, 1934)\*
94. *Psocidus signifer* (Navas, 1934)\*
95. *Ptycta schneideri* Badonnel, 1981\*
96. *Trichadenotecnum apertum* Thornton, 1961
97. *Trichadenotecnum distinctum* Datta, 1969
98. *Trichadenotecnum spiniserrulum* Datta, 1969
99. *Longivalvus nubilus* (Enderlein, 1906)
100. *Psococerastis asiatica* Datta, 1966\*
101. *Psococerastis assamensis* Datta, 1966\*
102. *Psococerastis bengalensis* (Kolbe, 1883)
103. *Psococerastis cosmoptera* (McLachlan, 1866)
104. *Psococerastis gibbosa* (Sulzer, 1766)
105. *Psococerastis nilae* Datta, 1966\*
106. *Psococerastis nirvana* (Banks, 1914)
107. *Psococerastis sinensis* Thornton, 1960
108. *Psococerastis taprobanes* (Hagen, 1858)
109. *Sigmatoneura (Sigmatoneura) subcostalis* (Enderlein, 1903)

#### **AMPHIENTOMIDAE Enderlein, 1903**

110. *Diamphipsocus striatus* (Thornton, 1984)
111. *Stimulopalpus japonicus* Enderlein, 1907
112. *Tineomorpha jacobsoniana* Enderlein, 1926

#### **LIPOSCOLIDAE Broadhead, 1950**

113. *Embidopsocus kumaonensis* Badonnel, 1981\*
114. *Embidopsocus trichurensis* Menon, 1942
115. *Liposcelis bengalensis* Badonnel, 1981\*
116. *Liposcelis bostrychophila* Badonnel, 1931
117. *Liposcelis paeta* Pearman, 1942
118. *Liposcelis entomophila* (Enderlein, 1907)
119. *Liposcelis transvaalensis* (Enderlein, 1909)
120. *Liposcelis divinatoria* (Müller, 1766)

#### **PACHYTROCTIDAE Enderlein, 1904**

121. *Psylloneura pygmaea* Datta, 1969\*
122. *Tapinella fasciata* Thornton and Wong, 1966\*
123. *Tapinella formosana* Enderlein, 1908
124. *Pachytroctes bicoloripes* Badonnel, 1949
125. *Peritroctes bengalensis* Thornton and Wong, 1966
126. *Peritroctes cochinchinensis* Menon, 1938
127. *Psacadium georgi* Menon, 1938\*

#### **LEPIDOPSOVIDAE Enderlein, 1903**

128. *Lepium chrysochlorum* Enderlein, 1907\*
129. *Soa papanasam* Ramesh, Babu and Subramanian, 2020\*

130. *Lepolepis bicolor* Broadhead, 1955  
**PSOQUILLIDAE Lienhard & Smithers, 2002**  
 131. *Eosilla (Empheriella) denervosa* (Enderlein, 1912)  
 132. *Rhyopsocus afer* (Badonnel, 1948)  
 133. *Psocathropos cuttackae* (Behura and Dash, 1968)\*  
 134. *Psocathropos lachlani* Ribaga, 1899  
 135. *Psocathropos pilipennis* (Enderlein, 1931)  
 136. *Psyllipsocus bombayensis* Menon, 1942\*  
 137. *Psyllipsocus edentulus* Menon, 1942\*  
 138. *Psyllipsocus ramburii* Selys, 1872  
**TROGIIDAE Roesler, 1944**  
 139. *Lepinotus indicus* Badonnel, 1981\*

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