

FAUNA OF INDIA CHECKLIST

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ARTHROPODA: CRUSTACEA: MALACOSTRACA: PERACARIDA: MYSIDA AND LOPHOGASTRIDA (OPOSSUM SHRIMPS)

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

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Introduction:

Mysida are the shrimp-like crustaceans containing a 'brood pouch' are popularly known as “**Opposum-shrimps**”. They are mostly marine, inhabiting all oceans from deep water to brackish coastal waters, few species, however in freshwater. They are very common especially in estuaries and coastal waters, where they often congregate in large swarms. They are not as familiar as the decapods shrimps and prawns and as such are of limited commercial importance. Tattersall (1906, 1908, 1914, 1915, 1922, and 1923), Pillai (1957, 1961, 1963, 1964, 1967), Panampunnayil (1977) and Panampunnayil and Viswakumar (1991) made a significant contribution to the Indian Mysids. Recently the contribution made by Biju (2008), Biju and Panampunnayil (2009, 2010, 2011), Biju et al (2006) and Mahabatro et al (2011) are note worthy.

Global Diversity: Earlier Mysida including Lophogastrida and Stygiomysida were placed under the order “Mysidacea”, which consists of approximately 1200 species and 187 genera found throughout the world (Biju & Pillai, 2020).

Diversity in India: Venkataraman et al (2016) has mentioned the availability of 93 species in India. Recently Biju and Pillai (2018, 2020, 2021) listed 37 species from Andaman and Nicobar Island, 58 species from Indian coastal zone, 21 species from deep sea. The present study reveals occurrence of 117 species of Mysids and 5 species of Lophogastrids in India

Diversity in Coasts and Islands of India:

East Coast – 49 species

West Coast- 37 species

Andaman & Nicobar Islands- 42

Lakshadweep -7

Habitat: They are mostly brackish water inhabitants and few species are available in freshwater ecosystems also.

Ecological Significance: They play a significant role in the food chain and acts as a prey for various aquatic animals.

Human Significance: In some parts of South-east Asia, China and Korea, mysidacea are fished by local fishers when they occur in swarms. Patil and Sankolli (1991) have discussed about the Kolim (Mysid) fishery of North Konkan coast of India. They are mainly used in aquaculture industries.

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

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

Species under CITES: Mysids are not listed under any appendices of CITES.

Invasive alien species: There is no report of invasive Mysids in India

Gap areas: Further exploration on Indian Mysids and Lophogastrids needs to be encouraged.

Systematic list:

Phylum- Arthropoda

Subphylum- Crustacea

Class- Malacostraca

Order- Mysida

Family- Mysidae

Subfamily SIRIELLINAЕ Czerniavsky, 1882

Genus *Siriella* Dana, 1850

1. *Siriella affinis* Hansen, 1910
2. *Siriella aequiremis* Hansen, 1910
3. *Siriella armata* (Milne Edwards, 1837)
4. *Siriella australiensis* Panampunnayil, 1995
5. *Siriella brevicaudata* Paul'son, 1875
6. *Siriella brevispina* Biju, Jasmine & Panampunnayil, 2010
7. *Siriella dubia* Hansen, 1910
8. *Siriella gracilis* Dana, 1852
9. *Siriella hansenii* W. Tattersall, 1922
10. *Siriella jonesi* Pillai, 1964
11. *Siriella paulsoni* Kossmann, 1877
12. *Siriella quadrispinosa* Hansen, 1910
13. *Siriella quilonensis* Pillai, 1961
14. *Siriella thompsonii* (H. Milne Edwards, 1837)
15. *Siriella vulgaris* Hansen, 1910

Genus *Hemisiriella* Hansen, 1910

16. *Hemisiriella parva* Hansen, 1910
17. *Hemisiriella pulchra* Hansen, 1910

Subfamily RHOPALOPHTHALMINAE Hansen , 1910

Genus *Rhopalophthalmus* Illig, 1906

18. *Rhopalophthalmus africanus* O. Tattersall, 1957
19. *Rhopalophthalmus anishi* Panampunnayil & Biju, 2006
20. *Rhopalophthalmus chilkinsis* O. Tattersall, 1957
21. *Rhopalophthalmus egregius* Hansen, 1910
22. *Rhopalophthalmus indicus* Pillai, 1961
23. *Rhopalophthalmus kempii* O. Tattersall, 1957
24. *Rhopalophthalmus macropsis* Pillai, 1964
25. *Rhopalophthalmus mumbayensis* Panampunnayil & Biju, 2006
26. *Rhopalophthalmus murudana* Panampunnayil & Biju, 2006

27. *Rhopalophthalmus tattersallae* Pillai, 1961
 28. *Rhopalophthalmus vijayai* Panampunnayil & Biju, 2006
 Subfamily **GASTROSACCINAE** Norman, 1892
Genus *Anchialina* Norman & Scott, 1906
 29. *Anchialina typica typica* (Krøyer, 1861)
 30. *Anchialina penicillata*, Zimmer, 1915
 31. *Anchialina typica orientalis* Nouvel, 1971
 32. *Anchialina grossa* Hansen, 1910
 33. *Anchialina dentata* Pillai, 1964
 34. *Anchialina media* Ii, 1964
Genus *Gastrosaccus* Norman, 1868
 35. *Gastrosaccus dunckeri* Zimmer, 1915
 36. *Gastrosaccus kemp* W. Tattersall, 1922
 37. *Gastrosaccus spinifer* (Goës, 1864)
 38. *Gastrosaccus sanctus* (Van Beneden, 1861)
Genus *Eurobowmaniella* Murano, 1995
 39. *Eurobowmaniella muticus* (W. Tattersall, 1915)
 40. *Eurobowmaniella simulans* (W. Tattersall, 1915)
Genus *Haplostylus* Kossmann, 1880
 41. *Haplostylus bengalensis* (Hansen, 1910)
 42. *Haplostylus indicus* (Hansen, 1910)
 43. *Haplostylus pacificus* (Hansen, 1912)
 44. *Haplostylus pusillus* (Coifmann, 1937)
Family MYSIDAE Haworth, 1825
Subfamily ERYTHROPINAE Hansen, 1910
Genus *Erythroops* Sars, 1869
 45. *Erythroops minutus* Hansen, 1910
 46. *Erythroops nanus* W. Tattersall, 1922
Genus *Katerythroops* Holt & Tattersall, 1905
 47. *Katerythroops triangulatus* Panampunnayil, 1977
Genus *Hypererythroops* Holt & Tattersall, 1905
 48. *Hypererythroops spiniferus* (Hansen, 1910)
Genus *Mysidopsis* Sars, 1864
 49. *Mysidopsis indica* W. Tattersall, 1922
 50. *Mysidopsis kemp* W. Tattersall, 1922
Genus *Paraleptomysis* Liu & Wang, 1983
 51. *Paraleptomysis apiops* (G.O. Sars, 1877)
 52. *Paraleptomysis xenops* (W. Tattersall, 1922)
Genus *Prionomysis* W. Tattersall, 1922
 53. *Prionomysis stenolepis* W. Tattersall, 1922
Genus *Dioptrromysis* Zimmer, 1915
 54. *Dioptrromysis perspicillata* Zimmer, 1915
Genus *Doxomysis* Hansen, 1912
 55. *Doxomysis anomala* W. Tattersall, 1922
 56. *Doxomysis longiura* Pillai, 1963
 57. *Doxomysis nicobaris* Panampunnayil, 2002
 58. *Doxomysis quadrispinosa* (Illig, 1906)
Genus *Neodoxomysis* Murano, 1999
 59. *Neodoxomysis littoralis* (Tattersall, 1922)
Genus *Notacanthomysis* Fukuoka & Murano, 2000
 60. *Notacanthomysis hodgarti* (W. Tattersall, 1922)
Genus *Idiomysis* W. Tattersall, 1922

61. *Idiomysis inermis* W. Tattersall, 1922
Genus *Gangemysis* Derzhavin 1924
 62. *Gangemysis assimilis* (W. Tattersall, 1908)
Genus *Lycomysis* Hansen, 1910
 63. *Lycomysis spinicauda* Hansen, 1910
Subfamily HETEROMYSINAE Norman, 1892
Genus *Heteromysis* (*Heteromysis*) Bacescu, 1968
 64. *Heteromysis* (*Heteromysis*) *proxima* W. Tattersall, 1922
 65. *Heteromysis* (*Heteromysis*) *gymnura* W. Tattersall, 1922
 66. *Heteromysis* (*Heteromysis*) *macropsis* Pillai, 1961
Genus *Heteromysis* (*Olivemysis*) Bacescu, 1968
 67. *Heteromysis* (*Olivemysis*) *zeylanica* W. Tattersall, 1922
Genus *Afromysis* Zimmer, 1916
 68. *Afromysis dentisinus* Pillai, 1957
 69. *Afromysis macropsis* W. Tattersall, 1922
Genus *Pseudomysidetes* W. Tattersall, 1936
 70. *Pseudomysidetes cochinchinensis* Panampunnayil, 1977
Genus *Pseuderythrops* Coifmann, 1936
 71. *Pseuderythrops gracilis* Coifmann, 1936
 72. *Pseuderythrops abrahami* Biju and Pannapunayil (2011)
Genus *Mesopodopsis* Czerniavsky, 1882
 73. *Mesopodopsis zeylanica* Nouvel, 1954
 74. *Mesopodopsis orientalis* (W. Tattersall, 1908)
Genus *Pseudanchialina* Hansen, 1910
 75. *Pseudanchialina inermis* (Illig, 1906)
 76. *Pseudanchialina pusilla* (G.O. Sars, 1883)
 77. *Pseuderythrops gracilis* Coifmann, 1936
Genus *Spelaeomysis* Caroli, 1924
 78. *Spelaeomysis cochinchinensis* Panampunnayil & Viswakumar, 1991
 79. *Spelaeomysis longipes* (Pillai & Mariamma, 1964)
Genus *Pleurerythrops* Ii, 1964
 80. *Pleurerythrops constrictus* Panampunnayil, 1977
Genus *Anisomysis* Hansen, 1910
Sub genus (*Anisomysis*) Hansen, 1910
 81. *Anisomysis* (*Anisomysis*) *bacescui* Pillai, 1976
 82. *Anisomysis* (*Anisomysis*) *spinata* Panampunnayil, 1993
 83. *Anisomysis* (*Anisomysis*) *truncata* Panampunnayil, 1993
Anisomysis (*Carnegieomysis*) W. Tattersall, 1943
 84. *Anisomysis* (*Carnegieomysis*) *hispida* Pillai, 1973
Sub genus (*Paranisomysis*) Bacescu, 1973
 85. *Anisomysis* (*Paranisomysis*) *minicoyensis* Biju, Panampunnayil & Prabhakaran, 2006
 86. *Anisomysis* (*Pseudanisomysis*) *tattersallae* Pillai, 1973
 87. *Anisomysis* (*Paranisomysis*) *laccadivei* Panampunnayil, 1981
Genus *Indomysis* W. Tattersall, 1914
 88. *Indomysis annandalei* W. Tattersall, 1914
 89. *Indomysis nybini* Biju & Panampunnayil, 2010
 Subfamily MYSINAE Haworth, 1825
Genus *Acanthomysis* Czerniavsky, 1882
 90. *Acanthomysis anomala* Pillai, 1961
 91. *Acanthomysis indica* (W. Tattersall, 1922)
 92. *Acanthomysis macrops* Pillai, 1973
 93. *Acanthomysis microps* Biju & Panampunnayil, 2009

94. *Acanthomysis pelagica* (Pillai, 1957)
 95. *Acanthomysis platycauda* (Pillai, 1961)
Genus *Boreomysis* (*Boreomysis*) G.O. Sars, 1869
 96. *Boreomysis* (*Boreomysis*) *plebeja* Hansen, 1910
 97. *Boreomysis* (*Boreomysis*) *sibogae* Hansen, 1910
 98. *Boreomysis* (*Boreomysis*) *tattarsalli* O. Tattersall, 1955
 99. *Boreomysis* (*Boreomysis*) *verrucosa* W.M.Tattersall, 1939
Genus *Boreomysis* (*Petryashovia*) Daneliya, 2023
 100. *Boreomysis* (*Petryashovia*) *kistnae* Pillai, 1973
Genus *Dactylamblyops* Holt & Tattersall, 1906
 101. *Dactylamblyops murrayi* W.M.Tattersall, 1939
Genus *Euchaetomera* G.O. Sars, 1883
 102. *Euchaetomera glyphidophthalmica* Illig, 1906-
 103. *Euchaetomera spinosa* Biju, Jasmine & Panampunnayil, 2010
 104. *Euchaetomera tenuis* G. O. Sars, 1883
 105. *Euchaetomera typica* Sars, 1884
Genus *Synerythrops* Hansen, 1910
 106. *Synerythrops intermedius* Hansen, 1910
Genus *Kochimysis* Panampunnayil & Biju, 2007
 107. *Kochimysis pillaii* Kochimysis pillaii Panampunnayil & Biju, 2007
Genus *Promysis* Dana, 1852
 108. *Promysis orientalis* Dana, 1852 from Bay of Bengal-Hensen, 1910
Genus *Gangemysis* Derzhavin, 1924
 109. *Gangemysis assimilis* (W. Tattersall, 1908)
Genus *Mesopodopsis* Czerniavsky, 1882
 110. *Mesopodopsis orientalis* (W. Tattersall, 1908)
 111. *Mesopodopsis zeylanica* Nouvel, 1954
Genus *Illigiella* Murano, 1981
 112. *Illigiella brevisquamosa* (Illig, 1906)
Genus *Gibbererythrops* (Illig, 1930)
 113. *Gibbererythrops acanthurus* (Illig, 1906)
Genus *Gymnerythrops* Hansen, 1910
 114. *Gymnerythrops macrops* Pillai, 1973
Genus *Thalassomysis* W.M. Tattersall, 1939
 115. *Thalassomysis sewelli* W.M. Tattersall, 1939
Family Petalophthalmidae Czerniavsky, 1882
Genus *Petalophthalmus* Willemoes-Suhm, 1874
 116. *Petalophthalmus armiger* Willemoes-Suhm, 1875
Genus *Ipirothalmus* Wittmann, 2020
 117. *Ipirothalmus oculatus* (Illig, 1906)
Order Lophogastrida
Family Eucopiidae G.O. Sars, 1885
Genus *Eucopia* Dana, 1852
 118. *Eucopia sculpticauda* Faxon, 1893
 119. *Eucopia australis* Dana, 1852r
Family Lophogastridae G.O. Sars, 1870;
Genus *Lophogaster* M. Sars, 1857
 120. *Lophogaster intermedius* Hansen, 1910
Gnathophausiidae Udrescu, 1984; Gnathophausia Willemoes-Suhm, 1873
 121. *Gnathophausia zoea* Willemoes-Suhm, 1873-
Genus *Fagegnathophausia* Petryashov, 2015
 122. *Fagegnathophausia gracilis* (Willemoes-Suhm, 1875)

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