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### REVIEW

#### AN UPDATED CHECKLIST OF SHRIMPS ON THE INDIAN COAST

Vijay Kumar Deepak Samuel, Chemmencheri Ramakrishnan Sreeraj, Pandian Krishnan, Chermapandi Parthiban, Veeramuthu Sekar, Kanagaraj Chamundeeswari, Titus Immanuel, Patro Shesdev, Ramachandran Purvaja & Ramachandran Ramesh

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## AN UPDATED CHECKLIST OF SHRIMPS ON THE INDIAN COAST

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**Abstract:** This study reports an updated checklist of marine shrimps found along the Indian coast, including the Lakshadweep and the Andaman & Nicobar Islands. A total of 364 species classified under 128 genera belonging to the order Decapoda is reported, thus adding 27 species to the existing checklist of 337 species. Marine shrimps are classified under two suborders of the order Decapoda, viz., Dendrobranchiata and Pleocyemata, and the two suborders account for 155 (42.6 %) and 209 species (57.4 %) of these 364 species, respectively. Pleocyemata is represented by three infraorders, viz., Axiidea, Caridea and Stenopodidea, while Caridea has a maximum of 199 reported species. Among the 12 superfamilies, Penaeoidea contributed to 38.13% (135 species) followed by Palaemonidea with 18.07% (64 species). All other superfamilies were found to contribute less than 12%. Superfamilies, Bresilloidea and Psalidopodoidea had only single species representatives (0.28% each). The final list was compiled after reviewing all existing literature including monographs, catalogues, checklists, websites and fishery reports. The scientific names were validated with the World Register of Marine Species (WoRMS) database. A total of 25 issues were identified from the previous checklist out of which 19 species have been updated with the correct, accepted names and six species have been removed from the previous list.

**Keywords:** Checklist, Decapoda, Dendrobranchiata, India, Pleocyemata, shrimp.

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## INTRODUCTION

Crustacean fishery as a whole accounts for more than 7% of the total produced through aquaculture. Crustaceans also play an important role in the economy by contributing more than 60% of the marine products exported (FAO 2014). Shrimp fishery is both an important food resource and a major economic resource for India. Shrimps account for 30% of the export of marine products in weight and 64% of the revenue generated from export of marine products (Anonymous 2014). Shrimps are the single most important marine food resource that is of the highest commercial value. There are several other shrimp species that may not be of commercial importance but form an integral part of the food chain of tropical marine ecosystems. Shrimps are a highly diverse group falling under the order Decapoda containing species that are widely distributed in marine, brackish, estuarine and freshwater realms. The majority of shrimp species occupy shallow or moderately deep sea water and are generally benthic, thriving on a variety of substrata such as rock, mud, peat, sand, fragments of shells or a mixture of these materials.

Studies of Decapoda date back to the end of the 19<sup>th</sup> century, when exploratory surveys were carried out by the Royal Indian Marine Survey Ship (RIMS) 'Investigator' (Wood-Mason & Alcock 1891; Alcock & Anderson 1894, 1899; Alcock 1901; Kemp 1925). The first comprehensive catalogue of Indian deep sea Crustacea (Decapoda, Macrura and Anomala) was compiled by Alcock (1901). This was followed by several works from extensive surveys of shrimp resources in different regions of the Indian coast (e.g., Kunju 1960; George 1966; Muthu & George 1971; Mohamed & Suseelan 1973; Silas & Muthu 1976; Thomas 1979; Rao 1984; Ravindranath 1989).

A total of 118 commercial shrimp species have been recorded by Suseelan (1996) that included 66 Penaeoid, 5 Sergestoid and 47 species of Caridean shrimps. Forty-six species of marine Palaemonid shrimps were recorded from the Indian seas by Jayachandran (2005) while, Karuppasamy et al. (2006) recorded 29 species of pelagic shrimps belonging to 19 genera and 11 families from the deep scattering layer (DSL) of the eastern Arabian Sea. Description of 84 Indian penaeid shrimps, along with their economic value and geographical distribution, were dealt with in detail by Kathirvel et al. (2007). Kurup et al. (2008) recorded 11 species of deep sea shrimps on the Kerala coast. A new gnathophyllid species was recorded from Lakshadweep waters by Prakash et al. (2011). Jayachandran (2010) listed 59 species of

palaemonid shrimps with taxonomic status, state wise distribution and their conservation. Shanis et al. (2012) made a checklist of 24 pandalid species belonging to six genera from the Indian waters. Radhakrishnan et al. (2012) published an annotated checklist of the penaeoid, sergestoid, stenopodid and caridean shrimps of India. In their work, a total of 437 species were recorded out of which, 343 species were marine forms and 94 freshwater. This is the latest checklist available for the shrimps along the Indian coasts. Rajakumaran & Vaseeharan (2014) surveyed shrimp diversity and exploitation of family Penaeidae from the southeastern coast of India and listed 59 species.

A knowledge of biodiversity will immensely help in the management of marine ecosystems and its resources. Regularly updated checklists on regional biodiversity would effectively aid in formulating proper and efficient conservation plans which require frequent/regular surveys and timely publication updates. A recent and updated checklist of the shrimp fauna of the Indian waters is unavailable but is also most essential. The current work was carried out with an intention to produce a taxonomically verified checklist of the shrimps recorded along the Indian coast, which would be a base document for further studies.

## METHODS

The checklist was prepared based on the collection of information from available published/reported literature, such as research articles, monographs, manuals, books, species checklists and technical reports. The scientific names were validated with the WoRMS (World Register of Marine Species) database for taxonomic status (accepted/status unknown, emendations, synonyms, alternate representations, nomen nudum, nomen dubium etc.) and the checklist was updated with currently accepted and valid names.

## RESULTS

A total of 364 species under 128 genera of shrimp (Fig. 1 & Table 1) are reported from the Indian coastal waters reviewing all previously published literature. Taxonomic hierarchy places species in this work under the order Decapoda that is divided into two suborders, namely Dendrobranchiata and Pleocyemata. Suborder Dendrobranchiata contains 155 species placed under two superfamilies, seven families and 41

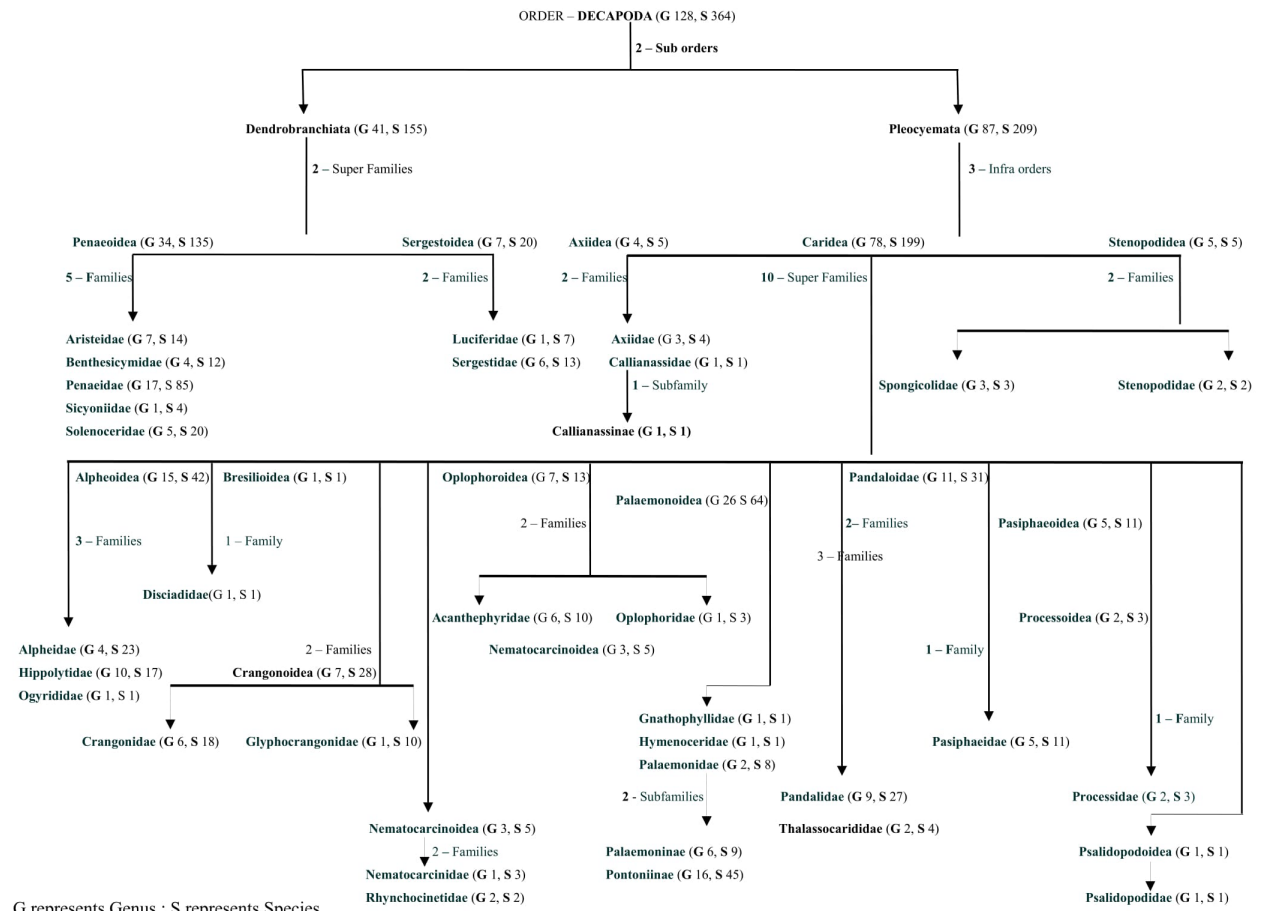


Figure 1. Flow chart representing the present classification and status of shrimps reported in Indian waters

genera contributing to 42.6% of the total 364 species. Suborder Pleocyemata contains 209 species included in three infraorders, 10 superfamilies, 22 families, three subfamilies and 87 genera with a contribution of 57.4% of the total 364 species. Family Penaeidae represents the greatest number of species, accounting for 85 species within 17 genera. This was followed by families Palaemonidae with 62 species under 24 genera, Pandalidae with 27 species under nine genera and Alpheidae with 23 species under four genera.

**DISCUSSION**

The diversity range of decapod crustaceans varies by spatial differences in environmental and oceanographic conditions, particularly by depth, bottom type and characteristics of the water masses (Abello et al. 1988). In India, shrimp species have been recorded from both shallow and deep waters.

The present work records a total of 364 species

belonging to 128 genera after validating and updating data from earlier reports (Table 1). The highest contribution to species diversity was from the superfamily Penaeoidea (38.13%) containing five families and 135 species (Fig. 1). Within the family Penaeidae, four genera, viz., *Fenneropenaeus*, *Litopenaeus*, *Marsupenaeus* and *Melicertus*, have been synonymised with the currently accepted genus *Penaeus* (Fransen & De Grave 2015). Two species under the genera *Parapenaeopsis*, viz., *P. hungerfordii* and *P. venusta*, are accepted as *Alcockpenaeopsis hungerfordii* (Fransen 2015a) and *Batepenaeopsis venusta* (Fransen 2015b). The genus *Plesiopenaeus* is accepted as *Cerataspis* (Fransen 2015c) under the family Aristeidae. An addition of five species under two genera has been updated from the work of Shanis et al. (2012) which reported a total of 24 species under seven genera. Further, *Thor maldivensis* is a synonym of *Thinora maldivensis* (De Grave 2015) under the family Hippolytidae (Fransen 2015d). The work carried out by Radhakrishnan et al. (2012) has listed *Notostomus* sp. under the family



Table 1. Checklist of valid names of shrimps from the Indian coast with information on their geographical distribution

	Species name	Distribution
<b>Kingdom: Animalia</b> <b>Phylum: Arthropoda</b> <b>Sub Phylum: Crustacea</b> <b>Class: Malacostraca</b> <b>Sub Class: Eumalacostraca</b> <b>Super Order: Eucarida</b> <b>Order: Decapoda</b> <b>Sub Order: Dendrobranchiata</b> <b>Super Family: Penaeoidea Rafinesque, 1815</b>		
<b>Family: Aristeidae Wood-Mason in Wood-Mason &amp; Alcock, 1891</b>		
1	<i>Aristaeomorpha woodmasoni</i> Calman, 1925	Andaman & Nicobar Islands, Arabian sea, Bay of Bengal
2	<i>Aristaeomorpha foliacea</i> (Risso, 1827)	Arabian sea, Bay of Bengal, Andaman & Nicobar Islands
3	<i>Aristaeomorpha woodmasoni</i> Calman, 1925	Southwest and southeast coast, Andaman & Nicobar Islands
4	<i>Aristaeopsis edwardsiana</i> (Johnson, 1868)	Southwest, southeast, Lakshadweep Islands, Andaman & Nicobar Islands
5	<i>Aristeus alcocki</i> Ramadan, 1938	Southwest, Southeast, Lakshadweep, Kerala
6	<i>Aristeus semidentatus</i> Spence Bate, 1881	Southwest & Andhra Pradesh coast
7	<i>Aristeus virilis</i> (Spence Bate, 1881)	Andaman & Nicobar Islands
8	<i>Cerataspis coruscans</i> (Wood-Mason in Wood-Mason & Alcock, 1891)	Andaman & Nicobar Islands
9	<i>Cerataspis monstrosus</i> Gray, 1828	Bay of Bengal
10	<i>Hemipenaeus carpenteri</i> Wood-Mason & Alcock, 1891	Minicoy, Bay of Bengal
11	<i>Hepomadus tener</i> Smith, 1884	Bay of Bengal
12	<i>Pseudaristeus crassipes</i> (Wood-Mason in Wood-Mason & Alcock, 1891)	Lakshadweep Islands, Southwest coast, Andaman & Nicobar Islands
13	<i>Pseudaristeus kathleenae</i> Pérez Farfante, 1987	-
14	<i>Pseudaristeus protensus</i> Pérez Farfante, 1987	East and west coast
<b>Family: Benthescymidae Wood-Mason in Wood-Mason &amp; Alcock, 1891</b>		
15	<i>Altelatipes carinatus</i> (Smith, 1884)	Lakshadweep
16	<i>Bentheogennema intermedia</i> (Spence Bate, 1888)	-
17	<i>Bentheogennema pasithea</i> (de Man, 1907)	Arabian sea
18	<i>Benthescymus armatus</i> MacGilchrist, 1905	-
19	<i>Benthescymus bartletti</i> Smith, 1882	-
20	<i>Benthescymus investigatoris</i> Alcock & Anderson, 1899	Gulf of Mannar, Andaman & Nicobar Islands
21	<i>Gennadas bouvieri</i> Kemp, 1909	Bay of Bengal
22	<i>Gennadas parvus</i> Spence Bate, 1881	Arabian sea
23	<i>Gennadas propinquus</i> Rathbun, 1906	Southwest and Southeast
24	<i>Gennadas scutatus</i> Bouvier, 1906	Southwest coast
25	<i>Gennadas sordidus</i> Kemp, 1910	Goa and Arabian sea
26	<i>Gennadas tinayrei</i> Bouvier, 1906	-

	Species name	Distribution
<b>Family: Penaeidae Rafinesque, 1815</b>		
27	<i>Alcockpenaeopsis hungerfordii</i> (Alcock, 1905)	Bay of Bengal
28	<i>Atypopenaeus compressipes</i> (Henderson, 1893)	Bay of Bengal
29	<i>Atypopenaeus stenodactylus</i> (Stimpson, 1860)	Northwest, southeast
30	<i>Batepenaeopsis venusta</i> (de Man, 1907)	Southeast coast
31	<i>Funchalia danae</i> Burkenroad, 1940	Arabian Sea
32	<i>Funchalia villosa</i> (Bouvier, 1905)	West coast & Andaman & Nicobar Islands
33	<i>Funchalia woodwardi</i> Johnson, 1868	Southeast coast
34	<i>Ganjampenaeopsis uncta</i> (Alcock, 1905)	Bay of Bengal
35	<i>Kishinouyepenaeopsis amicus</i> (V.C. Nguyèn, 1971)	Southeast coast
36	<i>Kishinouyepenaeopsis maxillipedo</i> (Alcock, 1905)	Southeast coast
37	<i>Megokris granulosus</i> (Haswell, 1879)	Chennai, Kakinada
38	<i>Megokris pescadorensis</i> (Schmitt, 1931)	Southwest, Southeast
39	<i>Megokris sedili</i> (Hall, 1961)	Southwest, southeast and northeast
40	<i>Metapenaeopsis andamanensis</i> (Wood-Mason in Wood-Mason & Alcock, 1891)	Southwest, southeast, Andaman & Nicobar Islands, Kerala
41	<i>Metapenaeopsis barbata</i> (De Haan, 1844)	South and northeast
42	<i>Metapenaeopsis ceylonica</i> Starobogatov, 1972	Kakinada
43	<i>Metapenaeopsis commensalis</i> Borradaile, 1899	Lakshadweep Islands
44	<i>Metapenaeopsis coniger</i> (Wood-Mason in Wood-Mason & Alcock, 1891)	Southwest, south and northeast, Andaman & Nicobar Islands
45	<i>Metapenaeopsis gaillardi</i> Crosnier, 1991	Southern India
46	<i>Metapenaeopsis gallensis</i> (Pearson, 1905)	Chennai
47	<i>Metapenaeopsis hilarula</i> (de Man, 1911)	East and west coast
48	<i>Metapenaeopsis mogiensis</i> Rathbun, 1902	East and west coast, Andaman & Nicobar Islands
49	<i>Metapenaeopsis novaeguineae</i> (Haswell, 1879)	Southeast coast
50	<i>Metapenaeopsis palmensis</i> (Haswell, 1879)	Andaman & Nicobar Islands
51	<i>Metapenaeopsis philippi</i> (Spence Bate, 1881)	Southwest coast
52	<i>Metapenaeopsis stridulans</i> (Alcock, 1905)	Northwest, south and northeast, Andaman & Nicobar Islands
53	<i>Metapenaeopsis toloensis</i> Hall, 1962	Chennai
54	<i>Metapenaeopsis wellsii</i> Racek, 1967	Southeast coast
55	<i>Metapenaeus affinis</i> (H. Milne Edwards, 1837)	East and west coast, Andaman & Nicobar Islands
56	<i>Metapenaeus alcocki</i> M.J. George & Rao, 1968	Gulf of Kutch
57	<i>Metapenaeus anchistus</i> (de Man, 1920)	Southeast coast

	Species name	Distribution
58	<i>Metapenaeus brevicornis</i> (H. Milne Edwards, 1837)	East and west coast, Andaman & Nicobar Islands
59	<i>Metapenaeus dobsoni</i> (Miers, 1878)	East and west coast, Andaman & Nicobar Islands
60	<i>Metapenaeus elegans</i> de Man, 1907	Andaman & Nicobar Islands
61	<i>Metapenaeus endeavouri</i> (Schmitt, 1926)	Kakinada, Andhra Pradesh
62	<i>Metapenaeus ensis</i> (De Haan, 1844)	South and northeast, Andaman & Nicobar Islands
63	<i>Metapenaeus intermedius</i> (Kishinouye, 1900)	Andaman & Nicobar Islands
64	<i>Metapenaeus joyneri</i> (Miers, 1880)	Southeast coast
65	<i>Metapenaeus krishnatrii</i> Silas & Muthu, 1976	Andaman & Nicobar Islands
66	<i>Metapenaeus kutchensis</i> P.C. George, M.J. George & Rao, 1963	Northwest and northeast coast
67	<i>Metapenaeus lysianassa</i> (de Man, 1888)	Southeast and northeast
68	<i>Metapenaeus monoceros</i> (Fabricius, 1798)	East and west coast
69	<i>Metapenaeus moyebi</i> (Kishinouye, 1896)	Northeast, southwest & Andaman & Nicobar Islands
70	<i>Metapenaeus papuensis</i> Racek & Dall, 1965	Southeast coast
71	<i>Metapenaeus stebbingi</i> Nobili, 1904	Gulf of Kutch
72	<i>Mierspenaeopsis indica</i> (Muthu, 1972)	Southeast coast
73	<i>Parapenaeopsis acclivirostris</i> Alcock, 1905	East and west coast
74	<i>Parapenaeopsis cornuta</i> (Kishinouye, 1900)	Northwest, southeast, northeast, Andaman & Nicobar Islands
75	<i>Parapenaeopsis coromandelica</i> Alcock, 1906	Southeast coast
76	<i>Parapenaeopsis gracillima</i> Nobili, 1903	Southeast coast
77	<i>Parapenaeopsis hardwickii</i> (Miers, 1878)	Northwest, southeast and northeast
78	<i>Parapenaeopsis investigatoris</i> (Alcock & Anderson, 1899)	Kerala
79	<i>Parapenaeopsis longirostris</i> Chandra & Bhattacharya, 2004	Odissa
80	<i>Parapenaeopsis nana</i> Alcock, 1905	South and northeast coast
81	<i>Parapenaeopsis sculptilis</i> (Heller, 1862)	East and west coast
82	<i>Parapenaeopsis stylifera</i> (H. Milne Edwards, 1837)	East and west coast, Andaman & Nicobar Islands
83	<i>Parapenaeopsis tenella</i> (Spence Bate, 1888)	South and northeast
84	<i>Parapenaeus fissuroides fissuroides</i> Crosnier, 1986	Southeast coast
85	<i>Parapenaeus fissuroides indicus</i> Crosnier, 1986	Mangalore
86	<i>Parapenaeus fissurus</i> (Spence Bate, 1881)	Orissa, Andaman & Nicobar Islands
87	<i>Parapenaeus investigatoris</i> Alcock & Anderson, 1899	Southwest, southeast, Andaman & Nicobar Islands
88	<i>Parapenaeus lanceolatus</i> Kubo, 1949	Southeast coast
89	<i>Parapenaeus longipes</i> Alcock, 1905	East and west coast
90	<i>Parapenaeus sextuberculatus</i> Kubo, 1949	-

	Species name	Distribution
91	<i>Pelagopenaeus balboae</i> (Faxon, 1893)	Southwest coast
92	<i>Penaeopsis jerryi</i> Pérez Farfante, 1979	Southwest, southeast and Andaman & Nicobar Islands
93	<i>Penaeopsis rectacuta</i> (Spence Bate, 1881)	Southwest, southeast and Andaman & Nicobar Islands
94	<i>Penaeus canaliculatus</i> (Olivier, 1811)	East and west coast, Minicoy, Andaman & Nicobar Islands
95	<i>Penaeus hathor</i> (Burkenroad, 1959)	-
96	<i>Penaeus indicus</i> H. Milne Edwards, 1837	East and west coast, Andaman & Nicobar Islands
97	<i>Penaeus japonicus</i> Spence Bate, 1888	East and west coast, Andaman & Nicobar Islands
98	<i>Penaeus konkani</i> (Chandra & Bhattacharya, 2003)	Goa, Malawan coast
99	<i>Penaeus latisulcatus</i> Kishinouye, 1896	Northwest, southwest, southeast, Lakshadweep Islands, Andaman & Nicobar Islands
100	<i>Penaeus merguensis</i> de Man, 1888	East and west coast, Andaman & Nicobar Islands
101	<i>Penaeus monodon</i> Fabricius, 1798	East and west coast, Andaman & Nicobar Islands
102	<i>Penaeus penicillatus</i> Alcock, 1905	Northeast and northwest
103	<i>Penaeus semisulcatus</i> De Haan, 1844	East and West coast, Andaman & Nicobar Islands
104	<i>Penaeus silasi</i> Muthu & Motoh, 1979	Chennai
105	<i>Penaeus similis</i> (Chanda & Bhattacharya, 2002)	Arabian sea
106	<i>Penaeus vannamei</i> Boone, 1931	East & West coast
107	<i>Trachypenaeopsis minicoyensis</i> Thomas, 1972	Minicoy
108	<i>Trachysalambria aspera</i> (Alcock, 1905)	Chennai, Orissa coast, Andaman & Nicobar Islands
109	<i>Trachysalambria curvirostris</i> (Stimpson, 1860)	East and west coast
110	<i>Trachysalambria fulva</i> (Dall, 1957)	Chennai
111	<i>Trachysalambria longipes</i> (Paulson, 1875)	Southeast coast
<b>Family: Sicyoniidae Ortmann, 1898</b>		
112	<i>Sicyonia fallax</i> de Man, 1907	-
113	<i>Sicyonia lancifer</i> (Olivier, 1811)	Southwest and southeast
114	<i>Sicyonia longicauda</i> Rathbun, 1906	-
115	<i>Sicyonia parajaponica</i> Crosnier, 2003	Southwest and Southeast
<b>Family: Solenoceridae Wood-Mason in Wood-Mason &amp; Alcock, 1891</b>		
116	<i>Gordonella villosa</i> (Alcock & Anderson, 1894)	Karwar and Minicoy
117	<i>Hadropenaeus lucasii</i> (Spence Bate, 1881)	
118	<i>Haliporus taprobanensis</i> Alcock & Anderson, 1899	Gulf of Mannar and Kanyakumari
119	<i>Haliporus thetis</i> Faxon, 1893	-
120	<i>Hymenopenaeus equalis</i> (Spence Bate, 1888)	Southeast and southwest, Andaman & Nicobar Islands
121	<i>Hymenopenaeus laevis</i> (Spence Bate, 1881)	Lakshadweep
122	<i>Hymenopenaeus neptunus</i> (Spence Bate, 1881)	Bay of Bengal
123	<i>Hymenopenaeus sewelli</i> Ramadan, 1938	-

	Species name	Distribution
124	<i>Solenocera alfonso</i> Pérez Farfante, 1981	Tuticorin
125	<i>Solenocera alticarinata</i> Kubo, 1949	-
126	<i>Solenocera annectens</i> (Wood-Mason in Wood-Mason & Alcock, 1891)	Andaman & Nicobar Islands
127	<i>Solenocera choprai</i> Nataraj, 1945	Southwest and east coast
128	<i>Solenocera crassicornis</i> (H. Milne Edwards, 1837)	East and west coast, Andaman & Nicobar Islands
129	<i>Solenocera halli</i> Starobogatov, 1972	East and west coast, Andaman & Nicobar Islands
130	<i>Solenocera hextii</i> Wood-Mason & Alcock, 1891	East and west coast
131	<i>Solenocera koelbeli</i> de Man, 1911	Kerala, Andhra Pradesh
132	<i>Solenocera melantho</i> de Man, 1907	Southwest, northeast
133	<i>Solenocera pectinata</i> (Spence Bate, 1888)	Southwest coast & Andhra Pradesh
134	<i>Solenocera pectinulata</i> Kubo, 1949	West coast
135	<i>Solenocera waltirensis</i> M.J. George & Muthu, 1970	Kakinada, Visakhapatnam
<b>Super family: Sergestoidea Dana, 1852</b>		
<b>Family: Luciferidae De Haan, 1849</b>		
136	<i>Lucifer chacei</i> Bowman, 1967	Arabian Sea, Lakshadweep Islands, Bay of Bengal, Andaman & Nicobar Islands
137	<i>Lucifer faxoni</i> Borradaile, 1915	Arabian Sea, Lakshadweep Islands, Bay of Bengal, Andaman & Nicobar Islands
138	<i>Lucifer hanseni</i> Nobili, 1905	Arabian Sea, Lakshadweep Islands, Bay of Bengal, Andaman & Nicobar Islands
139	<i>Lucifer intermedius</i> (Hansen, 1919)	Arabian Sea, Lakshadweep Islands, Bay of Bengal, Andaman & Nicobar Islands
140	<i>Lucifer orientalis</i> Hansen, 1919	Arabian Sea, Lakshadweep Islands, Bay of Bengal, Andaman & Nicobar Islands
141	<i>Lucifer penicillifer</i> Hansen, 1919	Arabian Sea, Lakshadweep Islands, Bay of Bengal, Andaman & Nicobar Islands
142	<i>Lucifer typus</i> H. Milne Edwards, 1837	Arabian Sea, Lakshadweep Islands, Bay of Bengal, Andaman & Nicobar Islands
<b>Family: Sergestidae Dana, 1852</b>		
143	<i>Acetes erythraeus</i> Nobili, 1905	Southwest coast, east coast
144	<i>Acetes indicus</i> H. Milne Edwards, 1830	East and west coast
145	<i>Acetes japonicus</i> Kishinouye, 1905	Southwest coast, Arabian Sea, Bay of Bengal
146	<i>Acetes johni</i> Nataraj, 1949	Southwest coast
147	<i>Acetes sibogae sibogae</i> Hansen, 1919	West and southeast coast
148	<i>Deosergestes rubroguttatus</i> (Wood-Mason in Wood-Mason & Alcock, 1891)	-
149	<i>Deosergestes seminudus</i> (Hansen, 1919)	-
150	<i>Neosergestes orientalis</i> (Hansen, 1919)	-
151	<i>Neosergestes semissis</i> (Burkenroad, 1940)	-

	Species name	Distribution
152	<i>Parasergestes armatus</i> (Krøyer, 1855)	-
153	<i>Sergestes hamifer</i> Alcock & Anderson, 1894	Arabian Sea, Andaman & Nicobar Islands
154	<i>Sergia bisulcata</i> (Wood-Mason & Alcock, 1891)	Arabian sea
155	<i>Sergia inoa</i> (Faxon, 1893)	-
<b>Sub order: Pleocyemata Burkenroad, 1963</b>		
<b>Infra order: Axiidea de Saint Laurent, 1979</b>		
<b>Family: Axiidae Huxley, 1879</b>		
156	<i>Ambiaxius alcocki</i> (McArdle, 1900)	Southwest coast
157	<i>Calaxiopsis felix</i> (Alcock, 1899)	-
158	<i>Eiconaxius andamanensis</i> (Alcock, 1901)	Andaman & Nicobar Islands
159	<i>Eiconaxius laccadivensis</i> Alcock & Anderson, 1894	Lakshadweep Islands
<b>Family: Callianassidae Dana, 1852</b>		
<b>Subfamily: Callianassinae Dana, 1852</b>		
160	<i>Callianassa lignicola</i> Alcock & Anderson, 1899	Bay of Bengal
<b>Infra order: Caridea Latreille, 1817</b>		
<b>Super family: Alpheoidea Rafinesque, 1815</b>		
<b>Family: Alpheidae Rafinesque, 1815</b>		
161	<i>Alpheus acutofemoratus</i> Dana, 1852	Andaman & Nicobar Islands
162	<i>Alpheus armatus</i> Rathbun, 1901	Chennai
163	<i>Alpheus crockeri</i> (Armstrong, 1941)	Andaman & Nicobar Islands
164	<i>Alpheus digitalis</i> De Haan, 1844	Gulf of Kutch, Gujarat
165	<i>Alpheus edwardsii</i> (Audouin, 1826)	West Bengal
166	<i>Alpheus euphrosyne</i> de Man, 1897	West Bengal and Tamil Nadu
167	<i>Alpheus frontalis</i> H. Milne Edwards, 1837	Andaman & Nicobar Island
168	<i>Alpheus lobidens</i> De Haan, 1849	-
169	<i>Alpheus macroskeles</i> Alcock & Anderson, 1899	Bay of Bengal
170	<i>Alpheus malabaricus</i> (Fabricius, 1775)	Kerala & Southeast coast
171	<i>Alpheus miersi</i> Coutière, 1898	Lakshadweep Islands
172	<i>Alpheus paludicola</i> Kemp, 1915	Karnataka
173	<i>Alpheus rapax</i> Fabricius, 1798	Lakshadweep Islands
174	<i>Alpheus spongiorum</i> Coutière, 1897	Lakshadweep Islands
175	<i>Alpheus strenuus strenuus</i> Dana, 1852	Andaman & Nicobar Islands
176	<i>Arete dorsalis</i> Stimpson, 1860	Andaman & Nicobar Islands
177	<i>Athanas areteformis</i> Coutière, 1903	Lakshadweep Islands
178	<i>Athanas dimorphus</i> Ortmann, 1894	Karwar
179	<i>Athanas djiboutensis</i> Coutière, 1897	Lakshadweep Islands
180	<i>Synalpheus herdmaniae</i> Lebour, 1938	Gulf of Mannar
181	<i>Synalpheus paraneomeris</i> Coutière, 1905	-
182	<i>Synalpheus paulsoni rameswarensis</i> Coutière, 1908	Gulf of Mannar



	Species name	Distribution
183	<i>Synalpheus tumidomanus tumidomanus</i> (Paul'son, 1875)	Karwar
<b>Family: Hippolytidae</b> Spence Bate, 1888		
184	<i>Exhippolysmata ensirostris ensirostris</i> (Kemp, 1914)	East and West coast
185	<i>Exhippolysmata punctata</i> (Kemp, 1914)	East and West coast
186	<i>Latreutes anoplonyx</i> Kemp, 1914	Northwest coast
187	<i>Latreutes mucronatus</i> (Stimpson, 1860)	Kerala
188	<i>Latreutes porcinus</i> Kemp, 1916	Andaman & Nicobar Islands
189	<i>Latreutes pymoeus</i> Nobilii, 1904	-
190	<i>Lysmata amboinensis</i> (de Man, 1888)	-
191	<i>Lysmata vittata</i> (Stimpson, 1860)	Maharashtra
192	<i>Merhippolyte calmani</i> Kemp & Sewell, 1912	Southwest coast
193	<i>Paralatreutes bicornis</i> Kemp, 1925	Andaman & Nicobar Islands
194	<i>Phycocaris simulans</i> Kemp, 1916	Andaman & Nicobar Islands
195	<i>Saron marmoratus</i> (Olivier, 1811)	Gulf of Kutch, West Bengal
196	<i>Saron neglectus</i> de Man, 1902	Andaman & Nicobar Islands
197	<i>Thinora maldivensis</i> Borradaile, 1915	Lakshadweep Islands
198	<i>Thor amboinensis</i> (de Man, 1888)	Andaman & Nicobar Islands
199	<i>Thor paschalis</i> (Heller, 1862)	Andaman & Nicobar Islands
200	<i>Tozeuma armatum</i> Paulson, 1875	Arabian sea
<b>Family: Ogyrididae</b> Holthuis, 1955		
201	<i>Ogyrides orientalis</i> (Stimpson, 1860)	-
202	<i>Ogyrides striaticauda</i> Kemp, 1915	Chilka Lake, Odisha
<b>Super family: Bresilioidea</b> Calman, 1896		
<b>Family: Disciadiidae</b> Rathbun, 1902		
203	<i>Discias exul</i> Kemp, 1920	-
<b>Super family: Crangonoidea</b> Haworth, 1825		
<b>Family: Crangonidae</b> Haworth, 1825		
204	<i>Aegaeon lacazei</i> (Gourret, 1887)	Chennai
205	<i>Parapontocaris andamanensis</i> (Wood-Mason in Wood-Mason & Alcock, 1891)	Andaman & Nicobar Islands
206	<i>Parapontocaris bengalensis</i> (Wood-Mason in Wood-Mason & Alcock, 1891)	Bay of Bengal
207	<i>Parapontophilus abyssii</i> (Smith, 1884)	-
508	<i>Parapontophilus gracilis gracilis</i> (Smith, 1882)	-
209	<i>Philocheras angustirostris</i> (de Man, 1918)	Andaman & Nicobar Islands
210	<i>Philocheras candidus</i> (Kemp, 1916)	Andaman & Nicobar Islands
211	<i>Philocheras hendersoni</i> (Kemp, 1915)	Andaman & Nicobar Islands
212	<i>Philocheras incisus</i> (Kemp, 1916)	Andaman & Nicobar Islands
213	<i>Philocheras lowisi</i> (Kemp, 1916)	Andaman & Nicobar Islands
214	<i>Philocheras parvirostris</i> (Kemp, 1916)	Gulf of Mannar
215	<i>Philocheras pilosus</i> (Kemp, 1916)	Gulf of Mannar

	Species name	Distribution
216	<i>Philocheras plebs</i> (Kemp, 1916)	Andaman & Nicobar Islands
217	<i>Philocheras sabsechota</i> (Kemp, 1911)	Andaman & Nicobar Islands
218	<i>Pontocaris affinis affinis</i> (Alcock, 1901)	Northwest coast
219	<i>Pontocaris pennata</i> (Spence Bate, 1888)	Chennai, Kakinada
220	<i>Pontocaris propensalata</i> (Spence Bate, 1888)	Andaman & Nicobar Islands
221	<i>Prionocrangon ommatosteres</i> Wood-Mason in Wood-Mason & Alcock, 1891	-
<b>Family: Glyphocrangonidae</b> Smith, 1884		
222	<i>Glyphocrangon andamanensis</i> Wood-Mason in Wood-Mason & Alcock, 1891	Andaman & Nicobar Islands
223	<i>Glyphocrangon caeca</i> Wood-Mason in Wood-Mason & Alcock, 1891	Bay of Bengal
224	<i>Glyphocrangon caecescens</i> Wood-Mason in Wood-Mason & Alcock, 1891	Bay of Bengal
225	<i>Glyphocrangon cerea</i> Alcock & Anderson, 1894	Lakshadweep Islands
226	<i>Glyphocrangon gilesii</i> Wood-Mason & Alcock, 1891	Andaman & Nicobar Islands
227	<i>Glyphocrangon investigatoris</i> Wood-Mason & Alcock, 1891	Chennai
228	<i>Glyphocrangon priononota</i> Wood-Mason & Alcock, 1891	Lakshadweep Islands
229	<i>Glyphocrangon regalis</i> Spence Bate, 1888	Kerala, Southwest coast
230	<i>Glyphocrangon smithii</i> Wood-Mason in Wood-Mason & Alcock, 1891	Andaman & Nicobar Islands
231	<i>Glyphocrangon unguiculata</i> Wood-Mason & Alcock, 1891	Arabian sea
<b>Super family: Nematocarcinoidea</b> Smith, 1884		
<b>Family: Nematocarcinidae</b> Smith, 1884		
232	<i>Nematocarcinus cursor</i> A. Milne-Edwards, 1881	-
233	<i>Nematocarcinus tenuirostris</i> Spence Bate, 1888	Arabian sea, Andaman & Nicobar Islands
234	<i>Nematocarcinus undulatipes</i> Spence Bate, 1888	Lakshadweep Islands
<b>Family: Rhynchocinetidae</b> Ortmann, 1890		
235	<i>Cinetorhynchus hendersoni</i> (Kemp, 1925)	Andaman & Nicobar Islands
236	<i>Rhynchocinetes durbanensis</i> Gordon, 1936	Netrani Island, Karnataka
<b>Super family: Oplophoroidea</b> Dana, 1852		
<b>Family: Acanthephyridae</b> Spence Bate, 1888		
237	<i>Acanthephyra armata</i> A. Milne-Edwards, 1881	-
238	<i>Acanthephyra curtirostris</i> Wood-Mason & Alcock, 1891	-
239	<i>Acanthephyra eximia</i> Smith, 1884	-
240	<i>Acanthephyra fimbriata</i> Alcock & Anderson, 1894	Bay of Bengal
241	<i>Acanthephyra sanguinea</i> Wood-Mason [in Wood-Mason & Alcock, 1892]	Kerala, west coast
242	<i>Ephyrina hoskynii</i> Wood-Mason & Alcock, 1891	Bay of Bengal

	Species name	Distribution
243	<i>Heterogenys microphthalmal</i> (Smith, 1885)	-
244	<i>Hymenodora gracilis</i> Smith, 1886	West coast
245	<i>Meningodora vesca</i> (Smith, 1886)	Bay of Bengal
246	<i>Notostomus</i> sp. A. Milne-Edwards, 1881	West coast
<b>Family: Oplophoridae</b> Dana, 1852		
247	<i>Oplophorus gracilirostris</i> A. Milne-Edwards, 1881	Southwest coast
248	<i>Oplophorus spinosus</i> (Brullé, 1839)	Southwest coast
249	<i>Oplophorus typus</i> H. Milne Edwards, 1837 [in H. Milne Edwards, 1834-1840]	West coast
<b>Super family: Palaemonoidea</b> Rafinesque, 1815		
<b>Family: Gnathophyllidae</b> Dana, 1852		
250	<i>Pycnocaris chagoae</i> Bruce, 1972	Agatti, Lakshadweep Islands
<b>Family: Hymenoceridae</b> Ortmann, 1890		
251	<i>Hymenocera picta</i> Dana, 1852	Minicoy
<b>Family: Palaemonidae</b> Rafinesque, 1815		
252	<i>Leander tenuicornis</i> (Say, 1818)	-
253	<i>Palaemon belindae</i> (Kemp, 1925)	-
254	<i>Palaemon concinnus</i> Dana, 1852	-
255	<i>Palaemon debilis</i> Dana, 1852	Andaman & Nicobar Islands
256	<i>Palaemon pacificus</i> (Stimpson, 1860)	-
257	<i>Palaemon semmelinkii</i> (de Man, 1881)	-
258	<i>Palaemon serrifer</i> (Stimpson, 1860)	-
259	<i>Palaemon sewelli</i> (Kemp, 1925)	-
<b>Sub family: Palaemoninae</b> Rafinesque, 1815		
260	<i>Exopalaemon styliferus</i> (H. Milne Edwards, 1840)	-
261	<i>Leandrites celebensis</i> (de Man, 1881)	Kerala, Tamil Nadu
262	<i>Macrobrachium divakarani</i> Jayachandran, 2001	Kerala
263	<i>Macrobrachium equidens</i> (Dana, 1852)	West Bengal, Kerala, Goa
264	<i>Macrobrachium rosenbergii</i> (de Man, 1879)	Kerala, Karnataka, West Bengal, Andhra Pradesh, Maharashtra, Tamil Nadu
265	<i>Nematopalaemon karnafuliensis</i> (Ali Azam Khan, Fincham & Mahmood, 1980)	West Bengal
266	<i>Nematopalaemon tenuipes</i> (Henderson, 1893)	Northwest, south and northeast coast
267	<i>Rhopalaemon belindae</i> (Kemp, 1925)	Gulf of Mannar
268	<i>Urocaridella urocaridella</i> (Holthuis, 1950)	Odisha
<b>Sub family: Pontoniinae</b> Kingsley, 1879		
269	<i>Allopontonia brackii</i> (de Man, 1888)	Andaman & Nicobar Islands
270	<i>Anchistus custos</i> (Forskål, 1775)	Andaman & Nicobar Islands
271	<i>Anchistus demani</i> Kemp, 1922	Andaman & Nicobar Islands
272	<i>Anchistus miersi</i> (de Man, 1888)	Andaman & Nicobar Islands
273	<i>Anchistus pectinis</i> Kemp, 1925	Andaman & Nicobar Islands

	Species name	Distribution
274	<i>Conchodytes biunguiculatus</i> (Paul'son, 1875)	Andaman & Nicobar Islands
275	<i>Conchodytes placunae</i> (Johnson, 1967)	Andaman & Nicobar Islands, southern India
276	<i>Conchodytes tridacnae</i> Peters, 1852	Andaman & Nicobar Islands
277	<i>Coralliocaris graminea</i> (Dana, 1852)	Andaman & Nicobar Islands
278	<i>Coralliocaris nudirostris</i> (Heller, 1861)	Gulf of Mannar
279	<i>Coralliocaris superba</i> (Dana, 1852)	Andaman & Nicobar Islands
280	<i>Cuapetes agag</i> (Kemp, 1922)	Andaman & Nicobar Islands
281	<i>Cuapetes amymone</i> (de Man, 1902)	Andaman & Nicobar Islands
282	<i>Cuapetes andamanensis</i> (Kemp, 1922)	Andaman & Nicobar Islands
283	<i>Cuapetes demani</i> (Kemp, 1915)	Chennai, Tamil Nadu
284	<i>Cuapetes elegans</i> (Paul'son, 1875)	Lakshadweep Islands
285	<i>Cuapetes grandis</i> (Stimpson, 1860)	Kochi Backwaters
286	<i>Cuapetes longirostris</i> (Borradaile, 1915)	Andaman & Nicobar Islands
287	<i>Cuapetes seychellensis</i> (Borradaile, 1915)	Andaman & Nicobar Islands
288	<i>Cuapetes tenuipes</i> (Borradaile, 1898)	Andaman & Nicobar Islands
289	<i>Dactylonia anachoreta</i> (Kemp, 1922)	Chennai, Tamil Nadu
290	<i>Dasella herdmaniae</i> (Lebour, 1938)	Gulf of Mannar
291	<i>Dasycaris symbiotes</i> Kemp, 1922	Visakhapatnam
292	<i>Harpiliopsis beaupresii</i> (Audouin, 1826)	Andaman & Nicobar Islands
293	<i>Harpiliopsis depressa</i> (Stimpson, 1860)	Tamil Nadu coast
294	<i>Harpiliopsis spinigera</i> (Ortmann, 1890)	Andaman & Nicobar Islands
295	<i>Jocaste lucina</i> (Nobili, 1901)	Andaman & Nicobar Islands
296	<i>Palaemonella lata</i> Kemp, 1922	Andaman & Nicobar Islands
297	<i>Palaemonella rotumana</i> (Borradaile, 1898)	Andaman & Nicobar Islands
298	<i>Periclimenella spinifera</i> (de Man, 1902)	Andaman & Nicobar Islands
299	<i>Periclimenes alcocki</i> (Kemp, 1922)	Andaman & Nicobar Islands
300	<i>Periclimenes brevicarpalis</i> (Schenkel, 1902)	Gulf of Mannar
301	<i>Periclimenes digitalis</i> Kemp, 1922	Andaman & Nicobar Islands
302	<i>Periclimenes diversipes</i> Kemp, 1922	Gulf of Mannar
303	<i>Periclimenes incertus</i> Borradaile, 1915	Andaman & Nicobar Islands
304	<i>Periclimenes inornatus</i> Kemp, 1922	Andaman & Nicobar Islands
305	<i>Periclimenes kemp</i> Bruce, 1969	Andaman & Nicobar Islands
306	<i>Periclimenes laccadivensis</i> (Alcock & Anderson, 1894)	Lakshadweep Islands
307	<i>Periclimenes leptopus</i> Kemp, 1922	Andaman & Nicobar Islands
308	<i>Periclimenes obscurus</i> Kemp, 1922	Kerala, Trivandrum

	Species name	Distribution
309	<i>Periclimenes proximus</i> Kemp, 1922	-
310	<i>Periclimenes rex</i> Kemp, 1922	Gulf of Mannar, Chennai
311	<i>Philarius gerlachei</i> (Nobili, 1905)	Gulf of Mannar
312	<i>Phycomenes indicus</i> (Kemp, 1915)	South coast, Nicobar Island, Chilka lake
313	<i>Vir orientalis</i> (Dana, 1852)	Andaman & Nicobar Islands
<b>Super family: Pandaloidea</b> Haworth, 1825		
<b>Family: Pandalidae</b> Haworth, 1825		
314	<i>Chlorocurtis jactans</i> (Nobili, 1904)	Andaman & Nicobar Islands
315	<i>Chlorotocella gracilis</i> Balss, 1914	Andaman & Nicobar Islands
316	<i>Chlorotocus crassicornis</i> (A. Costa, 1871)	Andaman & Nicobar Islands
317	<i>Dorodotes reflexus</i> Spence Bate, 1888	Bay of Bengal
318	<i>Heterocarpus dorsalis</i> Spence Bate, 1888	Arabian Sea, Andaman & Nicobar Islands, Bay of Bengal
319	<i>Heterocarpus ensifer</i> A. Milne-Edwards, 1881	Southeast and west coast
320	<i>Heterocarpus gibbosus</i> Spence Bate, 1888	Southeast and west coast, Andaman & Nicobar Islands
321	<i>Heterocarpus laevigatus</i> Spence Bate, 1888	Arabian Sea, Bay of Bengal
322	<i>Heterocarpus longirostris</i> MacGilchrist, 1905	Bay of Bengal, Andaman & Nicobar Islands
323	<i>Heterocarpus sibogae</i> de Man, 1917	Southwest coast, Andaman & Nicobar Islands
324	<i>Heterocarpus tricarinatus</i> Alcock & Anderson, 1894	Arabian Sea, Lakshadweep Islands, Andaman & Nicobar Island
325	<i>Heterocarpus woodmasoni</i> Alcock, 1901	Southeast, west coast, Andaman & Nicobar Island
326	<i>Parapandalus longicauda</i> (Rathbun, 1901)	Kakinada
327	<i>Plesionika adensamer</i> (Balss, 1914)	Arabian Sea, Bay of Bengal
328	<i>Plesionika alcocki</i> (Anderson, 1896)	Arabian Sea and Bay of Bengal
329	<i>Plesionika bifurca</i> Alcock & Anderson, 1894	Andaman & Nicobar Islands, Arabian sea, Bay of Bengal
330	<i>Plesionika ensis</i> (A. Milne-Edwards, 1881)	Southwest and East coast
331	<i>Plesionika longicauda</i> (Rathbun, 1901)	Bay of Bengal
332	<i>Plesionika martia</i> A. Milne-Edwards, 1883	Andaman & Nicobar Islands, Arabian sea, Bay of Bengal
333	<i>Plesionika ocellus</i> (Spence Bate, 1888)	Andaman & Nicobar Islands, Arabian sea
334	<i>Plesionika quasigrandis</i> Chace, 1985	West and southeast coast
335	<i>Plesionika sindoi</i> (Rathbun, 1906)	Andaman & Nicobar Islands, Arabian Sea
336	<i>Plesionika spinipes</i> Spence Bate, 1888	Arabian Sea, Andaman & Nicobar Islands, Bay of Bengal
337	<i>Plesionika unidens</i> Spence Bate, 1888	Andaman & Nicobar Islands
338	<i>Plesionika williamsi</i> Forest, 1964	Southwest coast
339	<i>Procletes levicarina</i> (Spence Bate, 1888)	West coast

	Species name	Distribution
340	<i>Stylopandalus richardi</i> (Coutière, 1905)	Bay of Bengal
<b>Family: Thalassocarididae</b> Spence Bate, 1888		
341	<i>Chlorotocoides spinicauda</i> (de Man, 1902)	Andaman & Nicobar Islands
342	<i>Thalassocaris crinita</i> (Dana, 1852)	Andaman & Nicobar Islands
343	<i>Thalassocaris lucida</i> (Dana, 1852)	Southwest coast
344	<i>Thalassocaris obscura</i> (Gopala Menon & Williamson, 1971)	Arabian sea
<b>Super family: Pasiphaeioidea</b> Dana, 1852		
<b>Family: Pasiphaeidae</b> Dana, 1852		
345	<i>Eupasiphae gilesii</i> (Wood-Mason, 1892)	Andaman & Nicobar Islands
346	<i>Eupasiphae latirostris</i> (Wood-Mason & Alcock, 1891)	Arabian sea
347	<i>Glyphus marsupialis</i> Filhol, 1884	Arabian sea
348	<i>Leptochela (Leptochela) aculeocaudata</i> Paul'son, 1875	Southwest coast
349	<i>Leptochela (Leptochela) robusta</i> Stimpson, 1860	Southwest coast
350	<i>Pasiphaea alcocki</i> Wood-Mason & Alcock, 1891	Southwest, southeast coast
351	<i>Pasiphaea unispinosa</i> Wood-Mason, 1892	Andaman & Nicobar Islands
352	<i>Psathyrocaris fragilis</i> Wood-Mason in Wood-Mason & Alcock, 1893	-
353	<i>Psathyrocaris infirma</i> Alcock & Anderson, 1894	Southwest coast
354	<i>Psathyrocaris platyophthalmus</i> Alcock & Anderson, 1894	Lakshadweep Islands
355	<i>Psathyrocaris plumosa</i> Alcock & Anderson, 1894	-
<b>Super family: Processoidea</b> Ortmann, 1896		
<b>Family: Processidae</b> Ortmann, 1896		
356	<i>Hayashidonus japonicus</i> (De Haan, 1844)	-
357	<i>Nikoides danae</i> Paul'son, 1875	Andaman & Nicobar Islands
358	<i>Nikoides sibogae</i> de Man, 1918	-
<b>Super family: Psalidopodoidea</b> Wood-Mason [in Wood-Mason & Alcock, 1892]		
<b>Family: Psalidopodidae</b> Wood-Mason [in Wood-Mason & Alcock, 1892]		
359	<i>Psalidopus huxleyi</i> Wood-Mason [in Wood-Mason & Alcock, 1892]	Andaman & Nicobar Islands
<b>Infra order: Stenopodidea</b> Spence Bate, 1888		
<b>Family: Spongicolidae</b> Schram, 1986		
360	<i>Engystenopus palmipes</i> Alcock & Anderson, 1894	-
361	<i>Microprosthemata validum</i> Stimpson, 1860	Gulf of Mannar
362	<i>Spongicola andamanicus</i> Alcock, 1901	Andaman & Nicobar Islands
<b>Family: Stenopodidae</b> Claus, 1872		
363	<i>Odontozona spongicola</i> (Alcock & Anderson, 1899)	-
364	<i>Stenopus hispidus</i> (Olivier, 1811)	Lakshadweep Islands

Oploporidae, but in the present list the genus is placed in the family Acanthephyridae (Fransen 2015e). The work carried out by Radhakrishnan et al. (2012) reports 343 species of marine shrimps containing 322 accepted names and 21 species names with taxonomic issues. These issues were 15 synonyms, subsequently updated with accepted names and six species names were dropped from the list. Further, 16 species not included in the list by Radhakrishnan et al. (2012) were added, of which nine species were from the work of Mohamed (1969), one species from Devi (1980), one species from Kurup et al. (2008), and five species from Shanis et al. (2012). Works published later by Chakraborty (2013) and Rajakumaran & Vaseeharan (2014) further added 11 (1+10) more species to the checklist (Table. 3).

A total of 27 species has been added to the checklist published in 2012 by Radhakrishnan et al. Altogether 25 issues were identified (all synonyms), out of which 19 species have been updated with the accepted names (Table 2) and six species dropped. After validation, 364 species have been reported in the present checklist (Table 1). Synonyms contributed to 5.2% of species names and the list of synonyms used by various authors is portrayed in Table 2. The work of Radhakrishnan et al. (2012) contained 21 issues whereas two issues were identified in Kasim (1969), namely *Parapenaepsis hungerfordii* (*Alcockpaneopsis hungerfordii* - accepted name); *Palaemon styliferus* (*Exopalaemon styliferus* - accepted name). Two additional issues were identified in the work of Rajakumaran & Vaseeharan (2014): *Parapenaepsis sinica* (*Kishinouyepenaepsis amicus* - accepted name); *Parapenaepsis venusta* (*Batepenaepsis venusta* - accepted name). Table 3 provides information on the number of species documented in each report, issues in each checklist, numbers of invalid species names that were dropped and revised and accepted names. The

**Table 2. Synonyms of accepted shrimp species recorded from Indian waters**

Sno	Current name	Synonymised name
1	<i>Penaeus konkani</i> (Chanda & Bhattacharya, 2003 )	<i>Fenneropenaeus konkani</i> Chanda & Bhattacharya, 2003
2	<i>Penaeus silasi</i> Muthu & Motoh, 1979	<i>Fenneropenaeus silasi</i> (Muthu & Motoh, 1979)
3	<i>Penaeus vannamei</i> Boone, 1931	<i>Litopenaeus vannamei</i> (Boone, 1931)
4	<i>Penaeus hathor</i> (Burkenroad, 1959)	<i>Melicertus hathor</i> (Burkenroad, 1959)
5	<i>Penaeus similis</i> (Chanda & Bhattacharya, 2002)	<i>Melicertus similis</i> Chanda & Bhattacharya, 2002
6	<i>Alcockpenaeopsis hungerfordii</i> (Alcock, 1905)	<i>Parapenaepsis hungerfordii</i> Alcock, 1905
7	<i>Kishinouyepenaepsis amicus</i> (V.C. Nguyen, 1971)	<i>Parapenaepsis sinica</i> Liu & Wang, 1986
8	<i>Batepenaepsis venusta</i> (de Man, 1907 )	<i>Parapenaepsis venusta</i> de Man, 1907
9	<i>Cerataspis monstrosus</i> Gray, 1828	<i>Plesiopenaeus armatus</i> (Spence Bate, 1881)
10	<i>Cerataspis coruscans</i> (Wood-Mason in Wood-Mason & Alcock, 1891)	<i>Plesiopenaeus coruscans</i> (Wood-Mason in Wood-Mason & Alcock, 1891)
11	<i>Bentheogennema pasithea</i> (de Man, 1907)	<i>Gennadas praecox</i> Kemp, 1910
12	<i>Alpheus strenuus strenuus</i> Dana, 1852	<i>Alpheus strenuus</i> (Dana, 1852)
13	<i>Synalpheus tumidomanus tumidomanus</i> (Paul'son, 1875)	<i>Synalpheus tumidomanus</i> (Paul'son, 1875)
14	<i>Thinora maldivensis</i> Borradaile, 1915	<i>Thor maldivensis</i> Borradaile, 1915
15	<i>Exopalaemon styliferus</i> (H. Milne Edwards, 1840)	<i>Palaemon styliferus</i> H. Milne Edwards, 1840
16	<i>Conchodytes placunae</i> (Johnson, 1967 )	<i>Chernocaris placunae</i> Johnson, 1967
17	<i>Conchodytes biunguiculatus</i> (Paul'son, 1875)	<i>Conchodytes kempii</i> Bruce, 1989
18	<i>Coralliocaris nudirostris</i> (Heller, 1861)	<i>Coralliocaris venusta</i> Kemp, 1922
19	<i>Chlorotocoides spinicauda</i> (de Man, 1902 )	<i>Chlorotocus spinicauda</i> de Man, 1902

**Table 3. Identified issues and revisions of shrimp species**

Authors	Species number		Issues (synonyms)	Revised & Accepted	Dropped	Final Checklist
	Total Reported	Accepted				
Radhakrishnan et al. 2012	437	343	21	15	6	337
Kasim 1969	93	2	2	2	-	9
Devi 1980	3	1	-	-	-	1
Kurup et al. 2008	37	1	-	-	-	1
Shanis et al. 2012	24	5	-	-	-	5
Chakraborty 2013	22	1	-	-	-	1
Rajakumaran & Vaseeharan 2014	59	11	2	2	-	10
Total	--	364	25		6	364



total numbers contributed finally after the process of taxonomic validation resulted in 364 species from Indian waters.

The constant updating of national and regional level species checklists is to suit the objective proposed by Global Biodiversity Information Facility (GBIF) “to coordinate, consolidate and disseminate basic taxonomic and species information that is commonly required by a range of users”. The updated checklist for shrimps in India in this report is a product of rendering services for biodiversity, conservation and management approaches.

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**Author Contribution:** VKDS, CRS and PK contributed in checklist verification, interpretation of results and preparing the manuscript. CP, VS and KC contributed in reference collection, preparing the checklist, validating the checklist with WoRMS database and in identifying the issues in the checklist. TI and PS assisted in collating the published literature and updating the checklist. RP and RR critically reviewed and finalized the manuscript.

#### Tamil abstract:

ஆய்வு சுருக்கம்

இந்த ஆய்வானது லட்சத்தீவு மற்றும் அந்தமான் நிக்கோபார் தீவுகள் உட்பட இந்திய கடலோர பகுதிகளில் இணைந்து காணப்படுகின்ற கடல் இறால்கள் பற்றிய ஒரு மேம்படுத்தப்பட்ட சரிபார்ப்பு பட்டியலாக தொகுக்கப்பட்டுள்ளது. மொத்தம் 364 இறால் உயிரினங்கள் 128 இறால் இனங்களின் கீழ் தசக்காலிகளின் (Decapod) வரிசையில் 337 உயிரினங்கள் இருக்கும் இந்த சரிபார்ப்பு பட்டியலில் 27 இனங்கள் சேர்த்து வகைப்படுத்தப்பட்டுள்ளது. பொதுவாக இறால்கள் தசக்காலிகள் வரிசையில் டென்ட்ரொப்ராஞ்சியேட்டா (Dendrobranchiata) பிலியோசைமேட்டா (Pleocyemata) என்ற இரு துணை வரிசைகளாக மொத்தம் 364 இனங்கள் 155 (42.6 %) மற்றும் 209 (57.4 %) விகிதங்களாக பிரிக்கப்பட்டுள்ளன. இவற்றில் பிலியோசைமேட்டா (Pleocyemata) வரிசையானது, அக்ஸியிடே (Axiidea), கேரிடே (Caridea) மற்றும் ஸ்டெனோபோடிடே (Stenopodidea) என்ற மூன்று கீழ் வரிசைகளாக பிரிக்கப்பட்டுள்ளது. இவற்றில் கேரிடே (Caridea) 12 குடும்பங்களை கொண்ட பெரிய கீழ் வரிசையாகும். இதில் பீனியாயிடே (Penaeoidea) 135 உயிரினங்கள் (38.13%) பாலமோனிமிடே (Palaeomonidea) 64 உயிரினங்கள் 18.07% என்ற விகிதத்தில் முக்கிய பங்களிக்கின்றது. மற்ற பெரும் குடும்பங்கள் (superfamilies) 12% விகிதத்திலும் பிரிசிமிலோபிடே (Bresilloidea) மற்றும் சலிடோபோடொய்டே (Psilidopodoidea) ஆகியவை ஒரே ஒரு உயிரினத்தையும் மற்றும் கொண்டுள்ளது. இந்த இறுதி பட்டியலானது, பட்டியல்கள், தனிக்கட்டுரை, வலைத்தளங்கள், மீன்பிடி அறிக்கைகள் போன்றவைகளிலிருந்து இலக்கிய திறனாய்வு செய்த பிறகு தொகுக்கப்பட்டவையாகும். உயிரினங்களின் அறிவியல் பெயர்கள் அனைத்தும் கடல்வாழ் உயிரினங்கள் உலக பதிவேடு (World Register of Marine Species (WoRMS) என்ற தகவல் மூலம் சரிபார்க்கப்பட்டவையாகும். இந்த ஆய்வில் மொத்தம் 25 உயிரினங்களின் பிழைகள் கண்டறியப்பட்டு, முந்தைய பட்டியலின் அடிப்படையில் 19 உயிரினங்களின் பிழைகள் மேம்படுத்தப்பட்டு 6 உயிரினங்கள் நீக்கப்பட்டுள்ளன.





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##### **A century later: Tricolored Pied Flat *Coladenia indrani uposathra* Fruhstorfer, 1911 (Hesperiidae: Pyrginae) and Crenulate Oakblue *Apporasa atkinsoni* Hewitson, 1869 (Lycaenidae: Theclinae) reported from Manipur, India**

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##### **On the distribution of *Aeshna petalura* Martin, 1908 (Odonata: Anisoptera: Aeshnidae) in the Indian subcontinent**

-- R. Babu & G. Srinivasan, Pp. 9034–9037

##### **Notes on the occurrence of *Mortonagrion aborense* Laidlaw, 1914 (Odonata: Coenagrionidae) from lower West Bengal, India**

-- Arajush Payra & Ashish D. Tiple, Pp. 9038–9041

##### **First record of *Speculitermes chadaensis* Chatterjee & Thapa, 1964 (Isoptera: Termitidae) from the Western Ghats, India**

-- Poovoli Amina, K. Rajmohana & K.V. Bhavana, Pp. 9042–9044

##### **A first report of egg parasitism in the Tropical Tasar Silkworm *Antheraea mylitta* (Drury) occurring on cashew**

-- K. Vanitha & S. Santhosh, Pp. 9045–9047

##### ***Gentiana saginoides* Burkill (Magnoliopsida: Gentianales: Gentianaceae) rediscovered from Sunderdhunga Valley in Uttarakhand 155 years after description: notes on its population status**

-- Dharmendra S. Rawat, Charan S. Rana, Harish Singh & Manish Karnatak, Pp. 9048–9052