

FAUNA OF INDIA CHECKLIST

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ARTHROPODA: CRUSTACEA: STOMATOPODA

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

ARTHROPODA: CRUSTACEA: STOMATOPODA

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Introduction: Stomatopoda is an important order of the Class Malacostraca of the subphylum Crustacea. Stomatopods, the mantis shrimps, are also known as “sea locusts”, prawn killers, and thumb splitters. They have powerful claws that are used to attack and kill prey by spearing, and stunning. In captivity, some large species are capable of breaking aquarium glass. Their size ranges from 10 cm to 46 cm. The studies on the Indian stomatopods were initiated by Fabricius (1798), Kemp (1913) published a monograph on Indo-Pacific Stomatopods which forms the principal work of reference till date on the Indo-Pacific forms. The contribution made by Kemp and Chopra (1921), Chopra (1934), Tiwari and Biswas (1952), Ghosh (1975 to 1998), Lyla *et al.* (1997) and Kumaralingam and Raghunathan (2016), are noteworthy. Recently Trivedi *et al.*, (2020) made an annotated checklist on Indian Stomatopods in which they have provided an updated information on the status of Stomatopod species so far known from India.

Global diversity: Around 500 species of stomatopods belonging to more than 120 genera, 18 families and 7 superfamilies are known Globally (Trivedi *et al.*, 2020).

Diversity in India: Trivedi *et al.*, (2020) validated the availability of 72 species of stomatopods belonging to 35 genera and 10 families in India. The present study reveals the occurrence of 76 species of stomatopods belonging to 36 genera and 10 families.

Diversity in States

Sl. No.	State/UT	No. of Species
1.	Andhra Pradesh	30
2.	Arunachal Pradesh	0
3.	Assam	0
4.	Bihar	0
5.	Chhattisgarh	0
6.	Gujarat	10
7.	Goa	3
8.	Haryana	0
9.	Himachal Pradesh	0
10.	Jharkhand	0
11.	Karnataka	2
12.	Kerala	7
13.	Madhya Pradesh	0
14.	Maharashtra	16
15.	Manipur	0
16.	Meghalaya	0
17.	Mizoram	0
18.	Nagaland	0

Sl. No.	State/UT	No. of Species
19.	Odisha	14
20.	Punjab	0
21.	Rajasthan	0
22.	Sikkim	0
23.	Tamil Nadu	49
24.	Telangana	0
25.	Tripura	0
26.	Uttarpradesh	0
27.	Uttarakhand	0
28.	West Bengal	21
29.	Andaman & Nicobar	36
30.	Chandigarh	0
31.	Dadra Nagar Haveli, Daman & Diu	0
32.	Delhi	0
33.	Jammu & Kashmir	0
34.	Ladakh	0
35.	Lakshadweep	12
36.	Puducherry	9

Endemism: Out of 76 species of stomatopods reported from India 3 species are endemic to the country.

Habitat: They are mostly marine and also available in Coastal Lagoond and brackish water.

Ecological Significance: They are an important component of food chain and are important predator in the shallow marine habitats.

Human Significance: Like prawns and crabs they are also consumed by human beings. They also play an important role in Crustacean fisheries. In many parts of India especially in Karnataka Coast they are trawled in large quantity and dried to prepare fish and poultry meal. Like ornamental fishes the colourful stomatopods are also used in the marine aquarium.

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

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

Species under CITES: Indian Stomatopods are not listed under any appendices of CITES.

Invasive alien species: No Stomatopod species are reported to be invasive in Indian waters.

Gap areas: After Kemp (1913) there is no significant consolidated contribution on the Indian stomatopods except the checklists. An in-depth review of Indian stomatopods is essential.

Systematic list :

Phylum ARTHROPODA

Subphylum CRUSTACEA

Class MALACOSTRACA Latreille, 1802

Order STOMATOPODA Latreille, 1817

Superfamily EURYSQUILLOIDEA Manning, 1977

Family EURYSQUILLIDAE Manning, 1977

Genus *Manningia* Serene, 19621. *Manningia andamanensis* Ghosh, 19752. *Manningia arabica* (Manning, 1990)

Superfamily GONODACTYLOIDEA Giesbrecht, 1910

Family GONODACTYLIDAE Giesbrecht, 1910

Genus *Gonodactylaceus* Manning, 19953. *Gonodactylaceus falcatus* (Forskål, 1775)Genus *Gonodactylellus* Manning, 19954. *Gonodactylellus affinis* (de Man, 1902)5. *Gonodactylellus demanii* (Henderson, 1893)6. *Gonodactylellus viridis* (Serène, 1954)Genus *Gonodactylus* Berthold, 18277. *Gonodactylus chiragra* (Fabricius, 1781)8. *Gonodactylus platysoma* Wood-Mason, 18959. *Gonodactylus smithii* Pocock, 1893Genus *Gonodactylopsis* Manning, 196910. *Gonodactylopsis drepanophora* (de Man, 1902)

Family PROTOSQUILLIDAE Manning, 1980

Genus *Chorisquilla* Manning, 196911. *Chorisquilla andamanica* Manning, 197512. *Chorisquilla gyrosa* (Odhner, 1923)13. *Chorisquilla spinosissima* (Pfeffer, 1888)Genus *Haptosquilla* Manning, 196914. *Haptosquilla glabra* (Lenz, 1905)15. *Haptosquilla glyptocercus* (Wood-Mason, 1875)16. *Haptosquilla pulchella* (Miers, 1880)17. *Haptosquilla tuberosa* (Pocock, 1893)

Family PSEUDOSQUILLIDAE Manning, 1977

Genus *Pseudosquilla* Dana, 185218. *Pseudosquilla ciliata* (Fabricius, 1787)Genus *Pseudosquillisma* Cappola & Manning, 199519. *Pseudosquillisma oculata* (Brullé, 1837)

Family ODONTODACTYLIDAE Manning, 1980

Genus *Odontodactylus* Bigelow 189320. *Odontodactylus brevirostris* (Miers, 1884)21. *Odontodactylus cultrifer* (White, 1850)22. *Odontodactylus japonicas* (de Haan, 1844)23. *Odontodactylus latirostris* Borradaile, 1907

Superfamily LYSIOSQUILLOIDEA Giesbrecht, 1910

Family LYSIOSQUILLIDAE Giesbrecht, 1910

Genus *Lysiosquilla* Dana, 185224. *Lysiosquilla lisa* (Ahyong & Randall, 2001)25. *Lysiosquilla sulcirostris* Kemp, 191326. *Lysiosquilla tredecimdentata* Holthuis, 1941

- Family NANNOSQUILLIDAE Manning, 1980
 Genus *Acanthosquilla* Manning, 1963
 27. *Acanthosquilla multifasciata* (Wood-Mason, 1895)
 28. *Acanthosquilla tigrina* (Nobili, 1903)
 Genus *Bigelowina* Schotte & Manning, 1993
 29. *Bigelowina phalangium* (Fabricius, 1798)
 Family TETRASQUILLIDAE Manning & Camp, 1993
 Genus *Heterosquilloides* Manning, 1966
 30. *Heterosquilloides insignis* (Kemp, 1911)
 Genus *Tetrasquilla* Manning & Chace, 1990
 31. *Tetrasquilla mccullochae* (Schmitt, 1940)
 Superfamily PARASQUILLOIDEA Manning, 1995
 Family PARASQUILLIDAE Manning, 1995
 Genus *Faughnia* Serene, 1962
 32. *Faughnia formosae* Manning & Chan, 1997
 Superfamily SQUILLOIDEA Latreille, 1802
 Family SQUILLIDAE Latreille, 1802
 Genus *Alima* Leach, 1817
 33. *Alima hieroglyphica* (Kemp, 1911)
 34. *Alima neptuni* (Linnaeus, 1768)
 Genus *Alimopsis* Manning, 1977
 35. *Alimopsis supplex* (Wood-Mason, 1875)
 Genus *Anchisquilla* Manning, 1968
 36. *Anchisquilla fasciata* (de Haan, 1844)
 Genus *Areosquilla* Manning, 1976
 37. *Areosquilla indica* (Hansen, 1926)
 Genus *Busquilla* Manning, 1978
 38. *Busquilla plantei* Manning, 1978
 39. *Busquilla quadraticauda* (Fukuda, 1911)
 Genus *Carinosquilla* Manning, 1968
 40. *Carinosquilla lirata* (Kemp & Chopra, 1921)
 41. *Carinosquilla multicarinata* (White, 1848)
 42. *Carinosquilla spinosa* Ahyong & Naiyanetr, 2002
 Genus *Clorida* Eydoux & Souleyet, 1842
 43. *Clorida bombayensis* (Chhapgar & Sane, 1967)
 44. *Clorida decorata* Wood-Mason, 1875
 45. *Clorida denticauda* (Chhapgar & Sane, 1967)
 46. *Clorida latreillei* Eydoux & Souleyet, 1842
 Genus *Cloridina* Manning, 1995
 47. *Cloridina ichneumon* (Fabricius, 1798)
 48. *Cloridina malaccensis* (Manning, 1968)
 Genus *Cloridopsis* Manning, 1968
 49. *Cloridopsis bengalensis* (Tiwari & Biswas, 1952)
 50. *Cloridopsis immaculata* (Kemp, 1913)
 51. *Cloridopsis scorpio* (Latreille, 1828)
 Genus *Dictyosquilla* Manning, 1968
 52. *Dictyosquilla foveolata* (Wood-Mason, 1895)
 Genus *Erugosquilla* Manning, 1995
 53. *Erugosquilla hesperia* (Manning, 1968)
 54. *Erugosquilla woodmasoni* (Kemp, 1911)
 Genus *Harpiosquilla* Holthuis, 1964
 55. *Harpiosquilla annandalei* (Kemp, 1911)

56. *Harpiosquilla harpax* (de Haan, 1844)
 57. *Harpiosquilla indica* Manning, 1969
 58. *Harpiosquilla melanoura* Manning, 1968
 59. *Harpiosquilla raphidea* (Fabricius, 1798)
 Genus **Kempella** Low & Ahyong, 2010
 60. *Kempella stridulans* (Wood-Mason in Alcock, 1894)
 Genus **Lenisquilla** Manning, 1977
 61. *Lenisquilla gilesi* (Kemp, 1911)
 62. *Lenisquilla lata* (Brooks, 1886)
 Genus **Leptosquilla** Miers, 1880
 63. *Leptosquilla schmeltzii* (A. Milne-Edwards, 1873)
 Genus **Lophosquilla** Manning, 1968
 64. *Lophosquilla tiwarii* Blumstein, 1974
 Genus **Miyakella** Ahyong & Low, 2013
 65. *Miyakella holoschista* (Kemp, 1911)
 66. *Miyakella nepa* (Latreille in Latreille, Le Peletier, Serville & Guérin, 1828)
 Genus **Oratosquillina** Manning, 1995
 67. *Oratosquillina inornata* (Tate, 1883)
 68. *Oratosquillina interrupta* (Kemp, 1911)
 69. *Oratosquillina pentadactyla* (Manning, 1978)
 70. *Oratosquillina perpensa* (Kemp, 1911)
 71. *Oratosquillina quinquentata* (Brooks, 1886)
 Genus **Quollastria** Ahyong, 2001
 72. *Quollastria gonypetes* (Kemp, 1911)
 73. *Quollastria kapala* Ahyong, 2001
 74. *Quollastria subtilis* (Manning, 1978)
 Genus **Squilloides** Manning, 1968
 75. *Squilloides leptosquilla* (Brooks, 1886)
 76. *Squilloides tenuispinis* (Wood-Mason, 1891)

References

- Chopra, B. 1934. On the stomatopod Crustacea collected by the Bengal Pilot Service off the mouth of the River Hughli, together with notes on some other forms. *Records of the Indian Museum*, 36: 17–43.
- Fabricius, J.C. 1798. Index alphabeticus in J.C. Fabricii Supplementum Entomologiae systematicae: ordines, genera et species contiens. Apud Proft et Storch, Hafniae, ii + 572 pp.
- Ghosh, H.C. 1975. A new species of *Manningia* (Stomatopoda, Gono dactylidae) from the Andaman Island. *Crustaceana*, 28 (1): 33–36.
- Ghosh, H.C. 1990. Crustacea: Stomatopoda. Fauna of Lakshadweep, State Fauna Series 2: 199–212.
- Ghosh, H.C. 1976. Two new records of stomatopods with description of a female of *Harpiosquilla indica* Manning, 1969 (Stomatopoda: Squillidae). *Records of the Zoological Survey of India*, 71: 51–55.
- Ghosh, H.C. 1984. On a small collection of Stomatopoda (Crustacea) from Goa. *Bulletin of the Zoological Survey of India*, 6: 261–266.
- Ghosh, H.C. 1987. Stomatopoda: Crustacea. *Fauna of Orissa, State Fauna Series*, 1: 305–318.
- Ghosh, H.C. 1995a. Crustacea: Stomatopoda. Fauna of Chilka Lake, Wetland Ecosystem Series 1: 337–344.
- Ghosh, H.C. 1995b. Stomatopoda: Crustacea. Hugli Matla Estuary, Ecosystem Series, 2: 179–189.
- Ghosh, H.C. 1998. Crustacea: Stomatopoda. Fauna of West Bengal, State Fauna Series, 3: 417–443.
- Ghosh, H.C. & Manning, R.B. 1988. Types of stomatopod crustaceans in the Zoological Survey of India. *Proceedings of the Biological Society of Washington*, 101 (3): 653–661
- Kemp, S. 1915. Fauna of Chilika lake. Stomatopoda. *Memoirs of the Indian Museum*, 5: 191–197.

- Kemp, S. & Chopra, B. 1921. Notes on Stomatopoda. *Records of the Indian Museum*, **22**: 297–311.
- Kemp, S. 1911. Preliminary descriptions of new species and varieties of Crustacea Stomatopoda in the Indian Museum. *Records of the Indian Museum*, **6**: 93–100.
- Kemp, S. 1913. An account of the Crustacea Stomatopoda of the Indo-Pacific region, based on the collection in the Indian Museum. *Memoirs of the Indian Museum*, **4**: 1– 217.
- Lyla, P.S., Chandrasekaran, V.S. & Ajmal Khan, S. 1997. Stomatopods of the Parangipettai coast. Centre of Advanced Study in Marine Biology, Annamalai University, Chidambaram, 45 pp.
- Kumaralingam, S. & Raghunathan, C. 2016. An account of some reef associated caridean shrimps and stomatopods of Andaman Islands. *Records of the Zoological Survey of India*, **116** (2): 117–128.
- Trivedi J. N., Ahyong S.T., Vachhrajani K.D., and Kumar A. B. 2020. An annotated checklist of the mantis shrimps of India (Crustacea: Stomatopoda). *Zootaxa*. 4768(2): zootaxa.4768.2.4. doi: 10.11646/zootaxa.4768.2.4. PMID: 33056524.
- Tiwari, K.K. & Biswas, S. 1952. On two new species of the genus *Squilla* Fabr., with notes on other stomatopods in the collections of the Zoological Survey of India. *Records of the Indian Museum*, **49**: 349–363.



Miyakella nepa (Latreille in Latreille, Le Peletier, Serville & Guérin, 1828)

