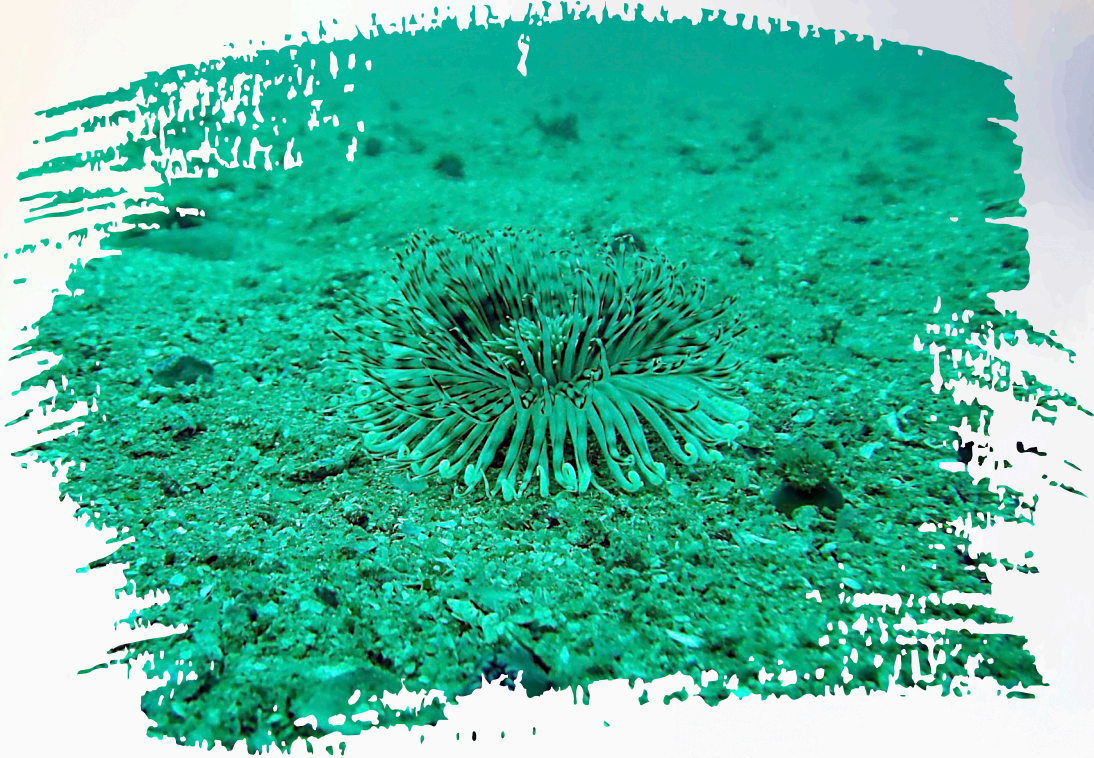


FAUNA OF INDIA CHECKLIST

JULY, 2024

ONLINE VERSION 1.0



CNIDARIA: ANTHOZOA: CERIANTHARIA

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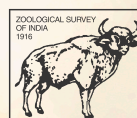
Key words: Tube anemones, Marginal tentacles, Labial tentacles, Hermaphrodite

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Comments on the checklist:

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

CNIDARIA: ANTHOZOA: CERIANTHARIA

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Introduction: Cerianthea is a subclass under the Subphylum Anthozoa of Phylum Cnidaria. The faunal group is commonly known as tube anemones or tube dwelling anemones. The animals have two whorls of different sized tentacles i.e., marginal tentacles and labial tentacles. The animal has cylindrical worm-like body, resides in tube. The faunal community is protandrous hermaphrodite in nature. The larval development of most of tube anemones is not clear. However, several of the species of the faunal group is having pelagic larvae and they are named after it and their life cycle is unknown. If the animal is disturbed from outside it can retract itself into the tube and if it is disturbed from the down by burrowing animals it can eject itself and relocate and secrete a new tube.

Global diversity: A total of 139 species of cerianthea under 41 genera are recorded across the world's oceans.

Diversity in India: Eight species of certiantharians are reported from India representing two orders and two families.

Diversity in States: Presented in table 1.

Table 1: Brachiopoda of India, State-wise distribution

Sl. No.	State/ Union Territory	No. of Species
1.	Odisha	01
2.	Tamil Nadu	04
3.	Andaman and Nicobar	04
Total number of species		08

Endemism: No endemism has been recorded from India.

Habitat: Certiantharians are sessile marine faunal communities found in seagrass meadows, rocky bottoms, coral rubble, coral reefs, sandy patches and mangrove zones. Ceriantharians are found from intertidal region to deep sea.

Ecological Significance Tubes anemones are the prey of the giant nudibranchs. Mostly tube anemones are suspended feeder but they also feeds on small fish and planktons captured by its tentacles. The tubes are also used by other animals as their hiding place. Several marine invertebrates are also displayed commensal relationship with tube anemones.

Human Significance: A few Certiantharia are used in the salt-water aquarium to increase aesthetic view.

Threatened species: No species of Certiantharia from India is assessed for IUCN threatened categories.

Protected Species as per WPA (2022): Four species of Certiantharia are listed under Schedule-I of Indian Wildlife (Protection) Amendment Act, 2022.

Species under CITES: There is no species enlisted under the CITES Appendices.

Invasive alien species: No certiantharia species is reported from India as an invasive.

Gap areas: Studies on certiantharia is very scanty due to the difficulties in the collections in global as well as Indian context. The tube anemones are not well explored in the Indian territorial waters and required to conduct extensive surveys to explore their diversity, biology and ecology.

Systematic list: Species list cited below (Table 2).

Table 2: Certiantharians of India

Sl. No.	Species
1.	<i>Cerianthus filiformis</i> Carlgren, 1924
2.	<i>Cerianthus lloydii</i> Gosse, 1859
3.	<i>Cerianthus punctatus</i> Uchida, 1979
4.	<i>Pachycerianthus maua</i> (Carlgren, 1900)
5.	<i>Arachnactis panikkari</i> Nair, 1949
6.	<i>Arachnactis indica</i> Panikkar, 1947
7.	<i>Anactinia pelagica</i> Annandale, 1909
8.	<i>Anactinia carlgreni</i> Nair, 1949

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