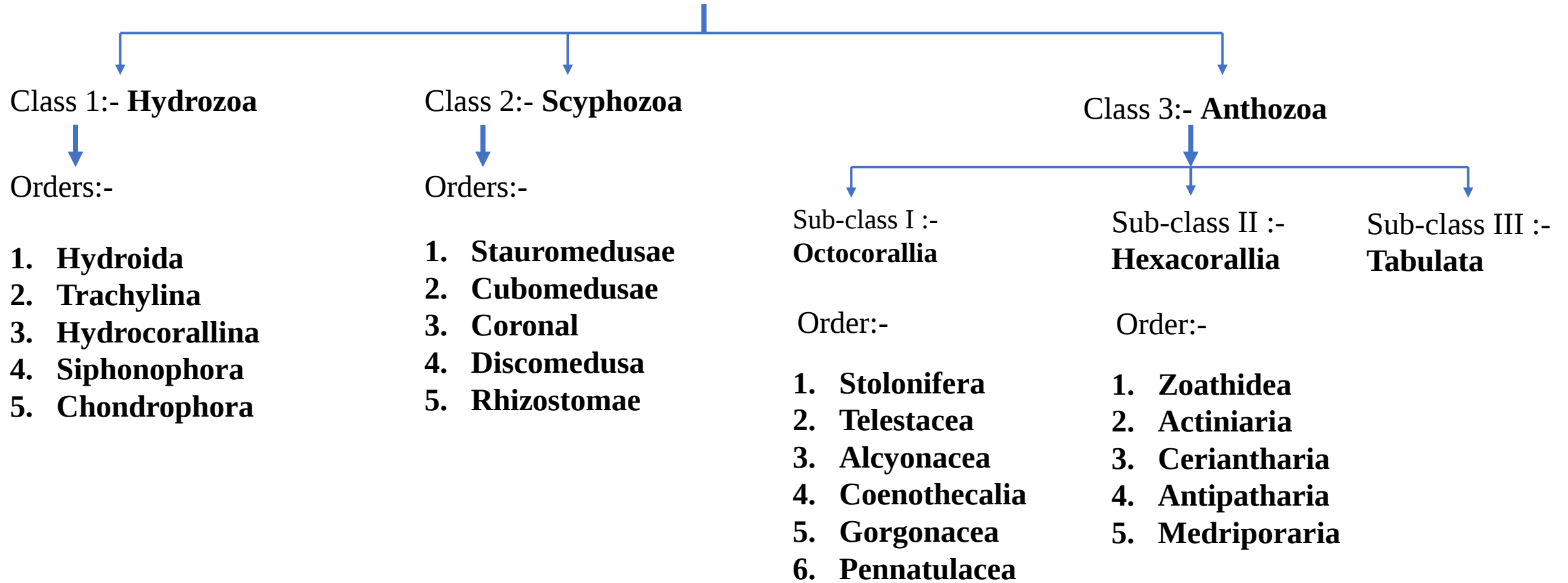




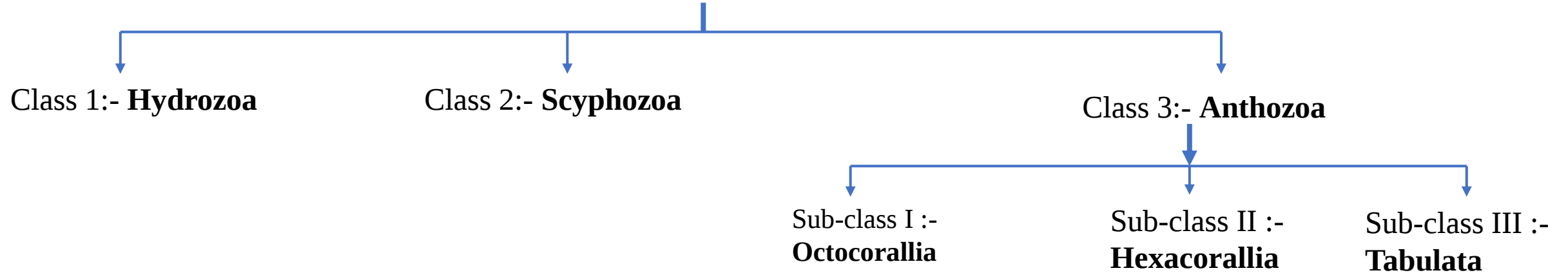
Phylum- **Cnidaria**

Classification

Phylum- Cnideria



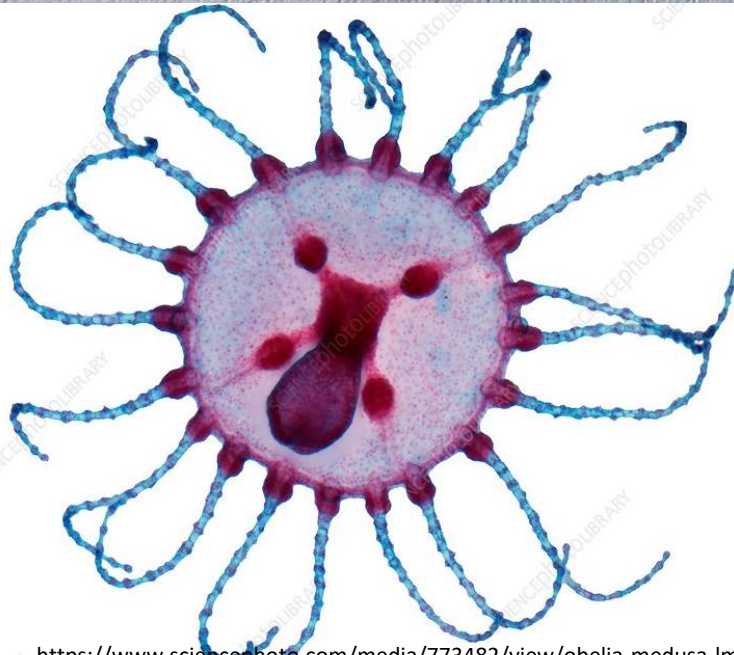
Phylum- **Cnideria**



CLASS 1. Hydrozoa

(Gr., **hydra**, water + **zoon**, animal)

1. Freshwater or marine. Solitary or colonial.
2. Only polyps or both asexual polyps and sexual medusae present.
3. Polyps without stomodaeum and septa (mesentery).
4. Medusae with true velum (**craspedote**).
5. Mesogloea non-cellular.
6. Gonads epidermal. Sex cells shed directly on outside.



<https://www.sciencephoto.com/media/773482/view/obelia-medusa-lm>



Ahuatzin-Hernández et al, 2020

Velum



<https://www.discovermagazine.com/the-sciences/how-hydra-regrow-their-heads>

Hydra (Order: Hydroida)



https://www.jungledragon.com/specie/8108/craspedacusta_sowerbii.html

Craspedacusta (Order: Trachylina)



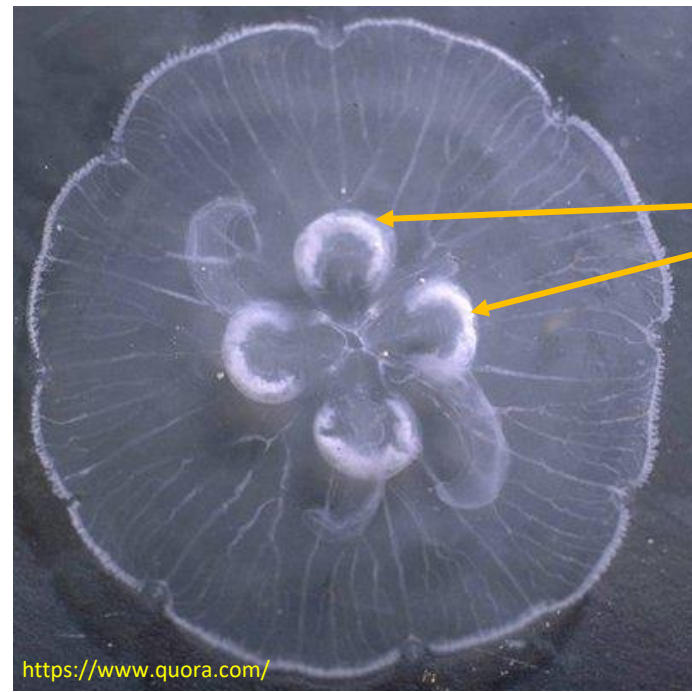
Millepora sp. (Order- Hydrocorallina)



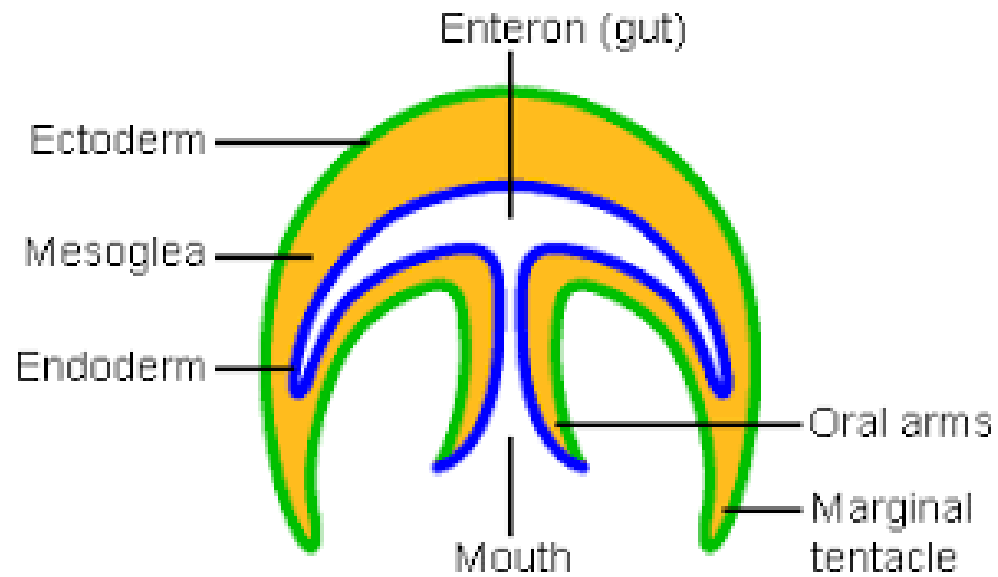
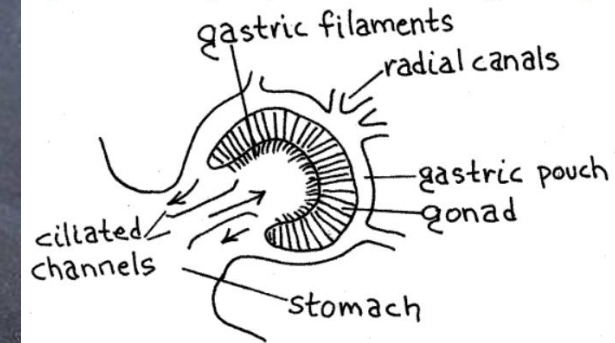
Stylaster sp. (Order- Hydrocorallina)

CLASS 2. Scyphozoa

1. Exclusively marine and solitary forms.
2. Medusa stage dominant. Polyp stage reduced or absent.
3. Gastrovascular cavity with gastric pouches and endodermal gastric filaments. No stomodaeum.
4. Medusa **acraspedote**, without distinct velum.
5. Mesogloea extensive, gelatinous, with fibres and cells.
6. Gonads gastrodermal. Sex cells released in digestive cavity.



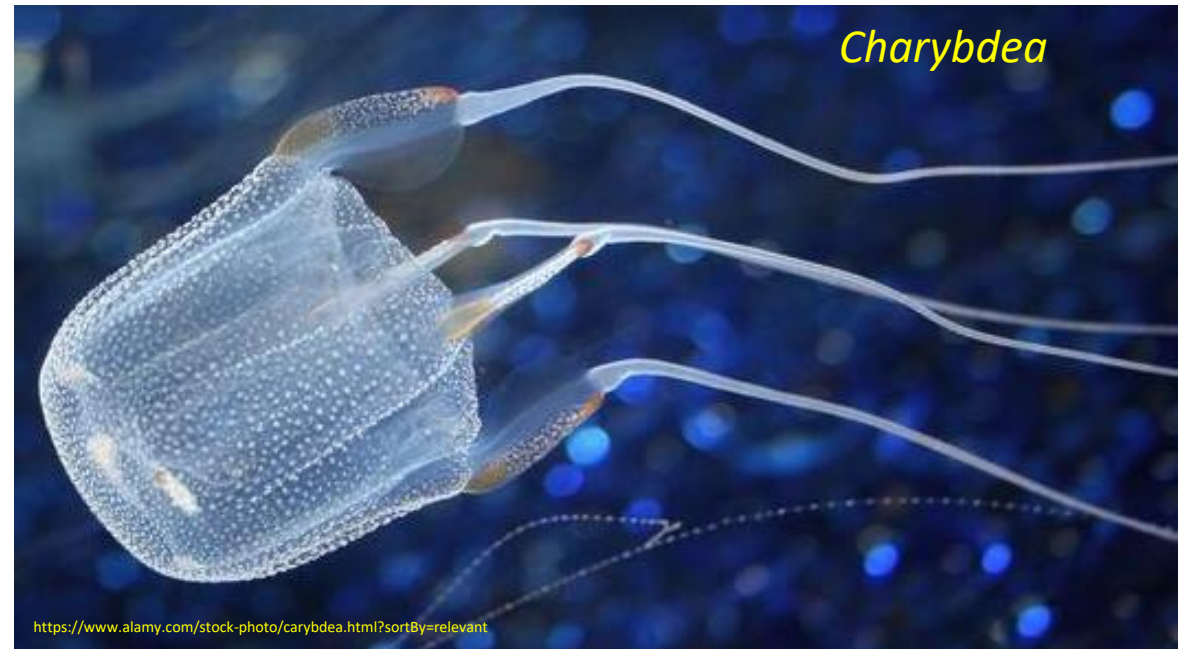
Gastric pouches





Aurelia

<https://commons.wikimedia.org/wiki>



Charybdea

<https://www.alamy.com/stock-photo/carybdea.html?sortBy=relevant>



Periphylla

https://www.reeflex.net/tiere/8578_Periphylla_periphylla.htm

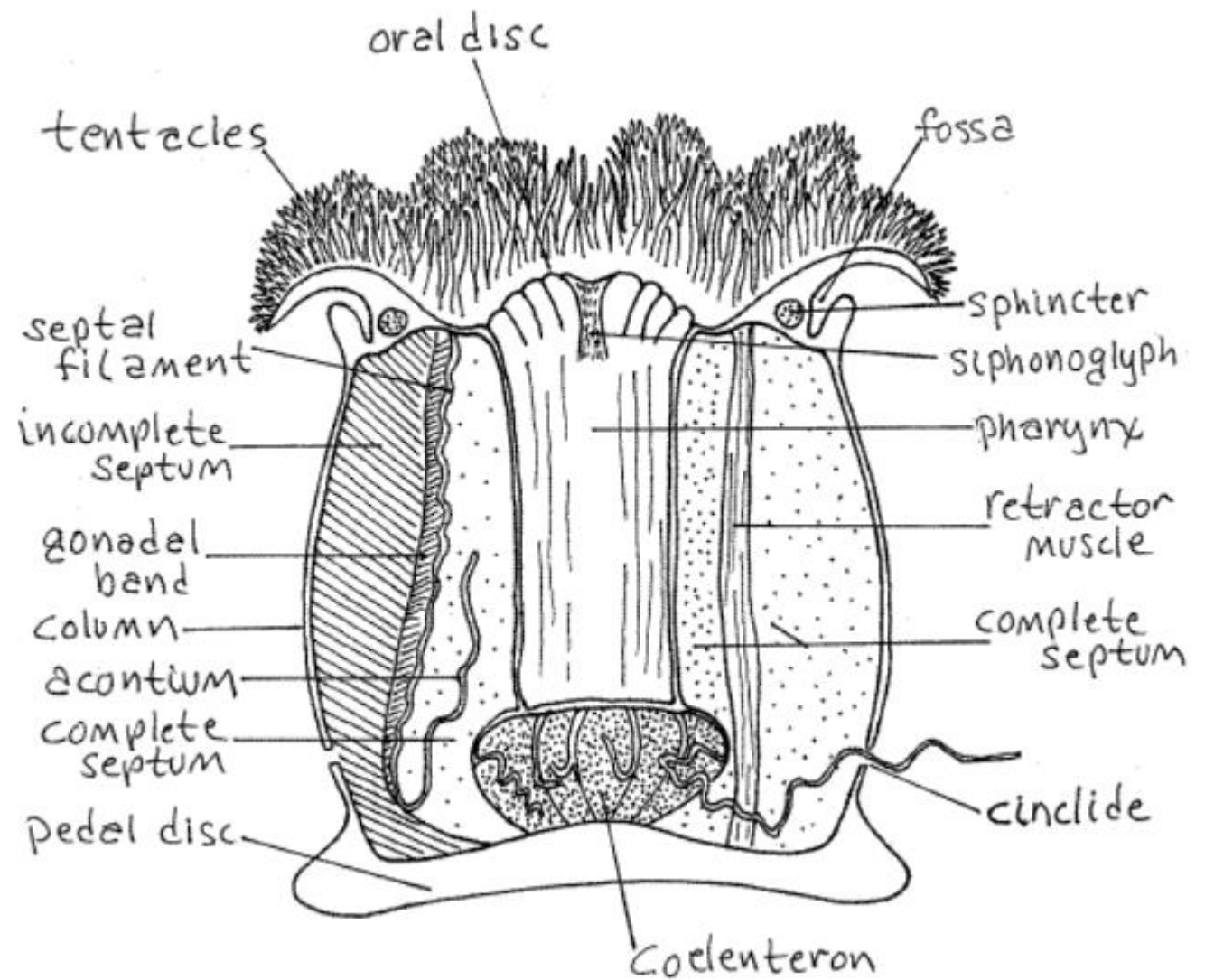
CLASS 3. Anthozoa (Actinozoa)

(Gr., **anthos**, flower + **zoios**, animal)

1. Exclusively marine. Solitary or colonial.
2. All polyps, no medusa.
3. Mouth leads into a tubular stomodaeum.
4. Gastrovascular cavity subdivided by 8 or more septa or mesenteries.
5. Mesogloea stout and cellular.
6. Mesenteries with nematocysts and gastrodermal gonads.



<https://www.photogallery.com/featured/plumose-sea-anemones>



Subclass I. Octocorallia (Alcyonaria)

1. Exclusively colonial.
2. Polyps with 8 pinnate tentacles and 8 septa.
3. Gullet with one ventral siphonoglyph.



<https://commons.wikimedia.org/>



<https://reef-aquarium-store.com/clavularia-spp-green>

Tubipora

Subclass II. Hexacorallia (Zoantharia)

1. Solitary or colonial.
2. Tentacles usually unbranched, numerous but never 8.
3. Gullet commonly with 2 siphonoglyphs.



Zoanthus



Actinia

Subclass III. Tabulata

Extinct colonial anthozoans with heavy calcareous skeletal tubules containing horizontal platforms or tubulae.

Examples : *Favosites*, *Halysites*.



Favosites



https://fossilid.info/1145/specimens?mode=in_baltoscandia

Halysites