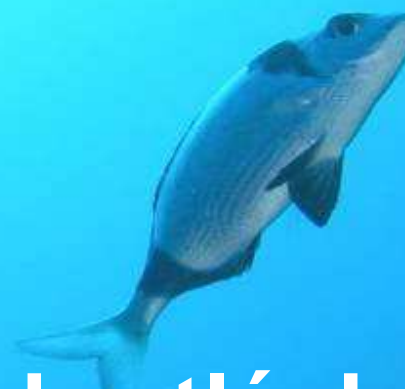




MODULARIZACE VÝUKY EVOLUČNÍ A EKOLOGICKÉ BIOLOGIE
CZ.1.07/2.2.00/15.0204



Zoologie bezobratlých Středozemního moře

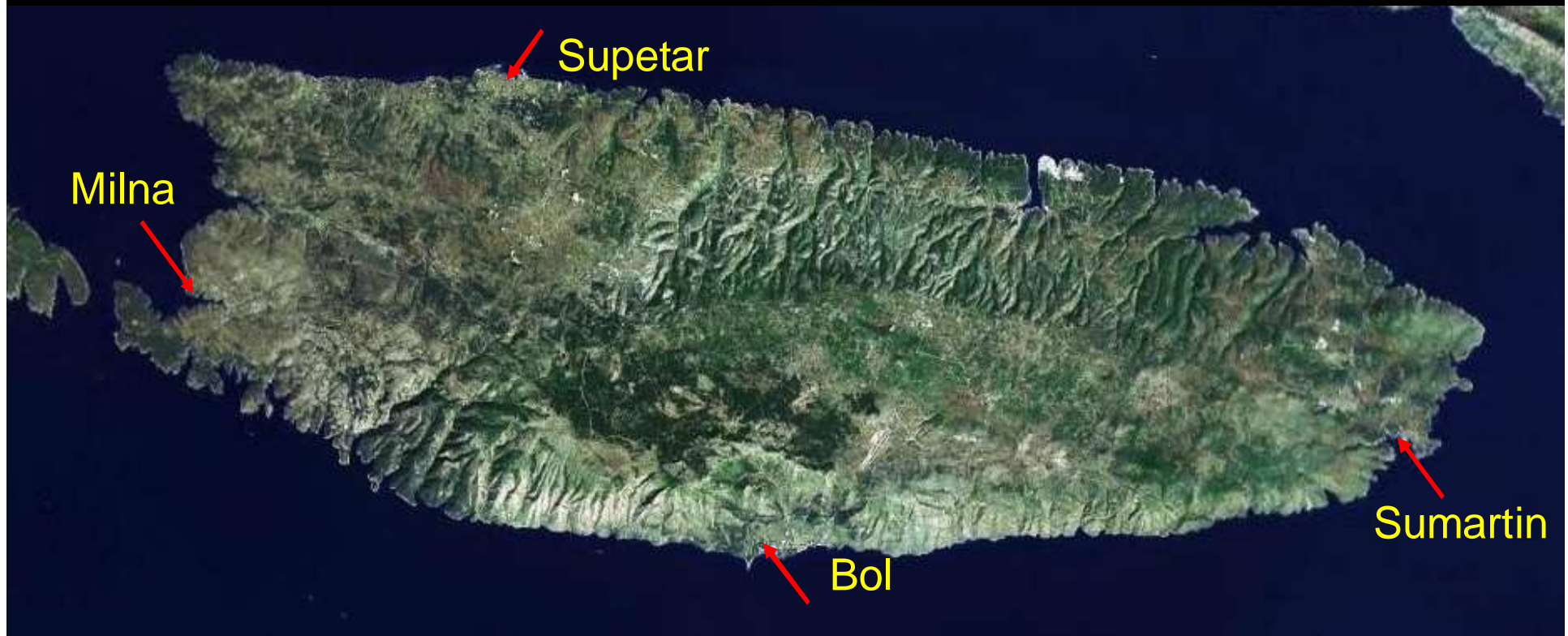


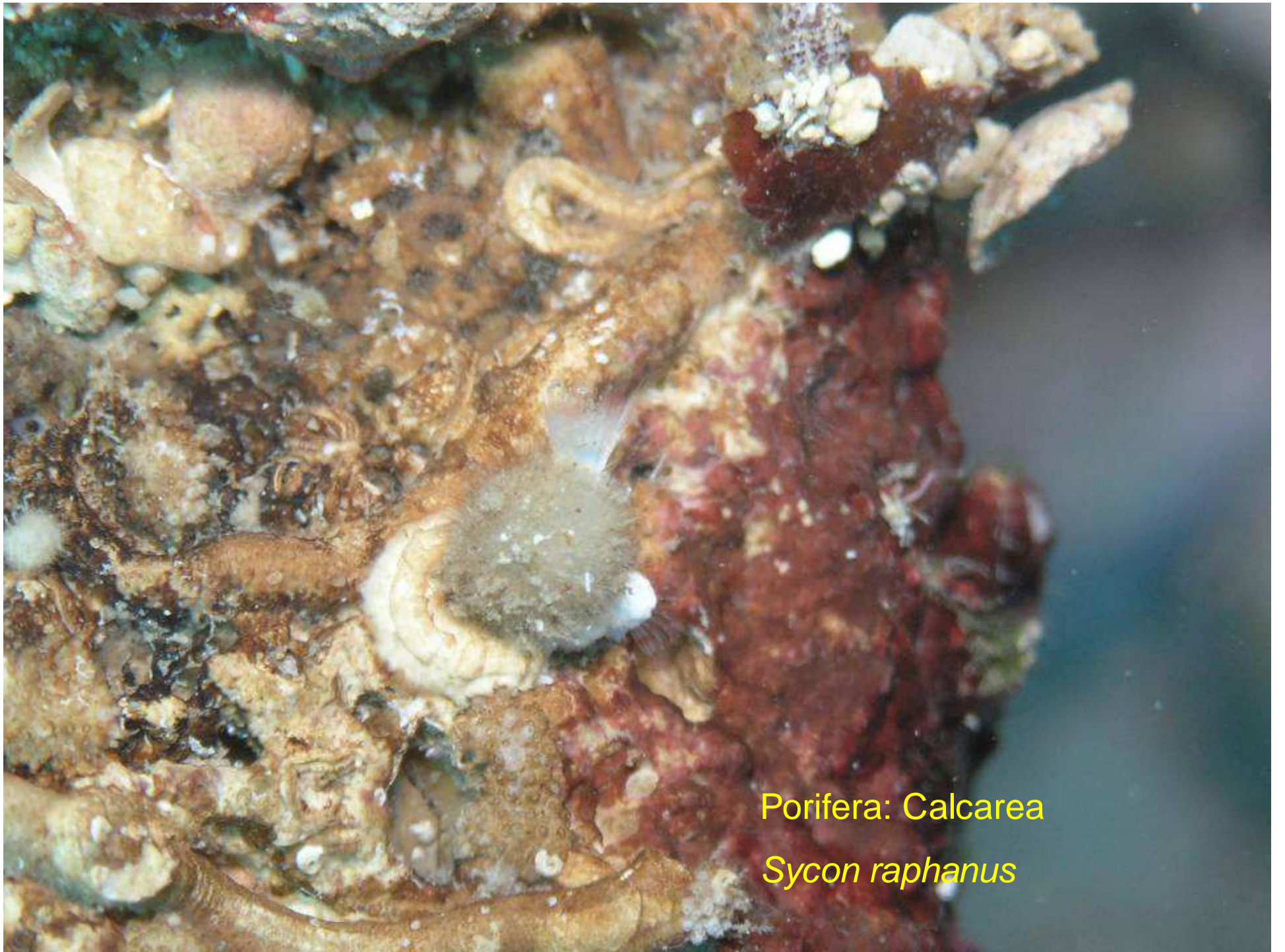
INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ



Otok Brač

největší ze středodalmatských ostrovů
cca 40 x 13 km; 395 km²; 5,5-13 km od pobřeží
cca 13 800 obyvatel





Porifera: Calcareo

Sycon raphanus



Porifera: Calcarea

Clathrina clathrus



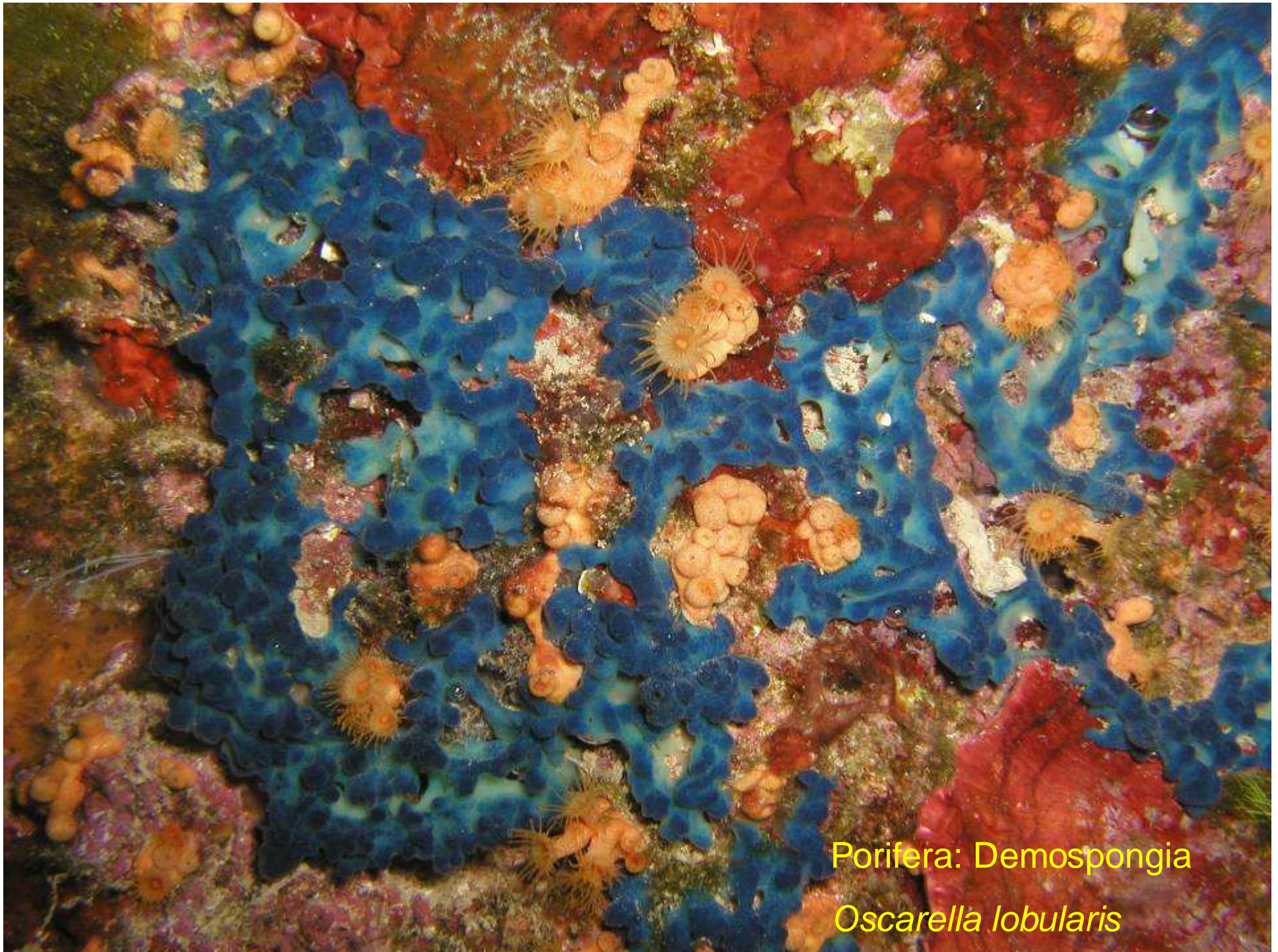
Porifera: Demospongia

Axinella canabina

Porifera: Demospongia

Haliclona mediterranea





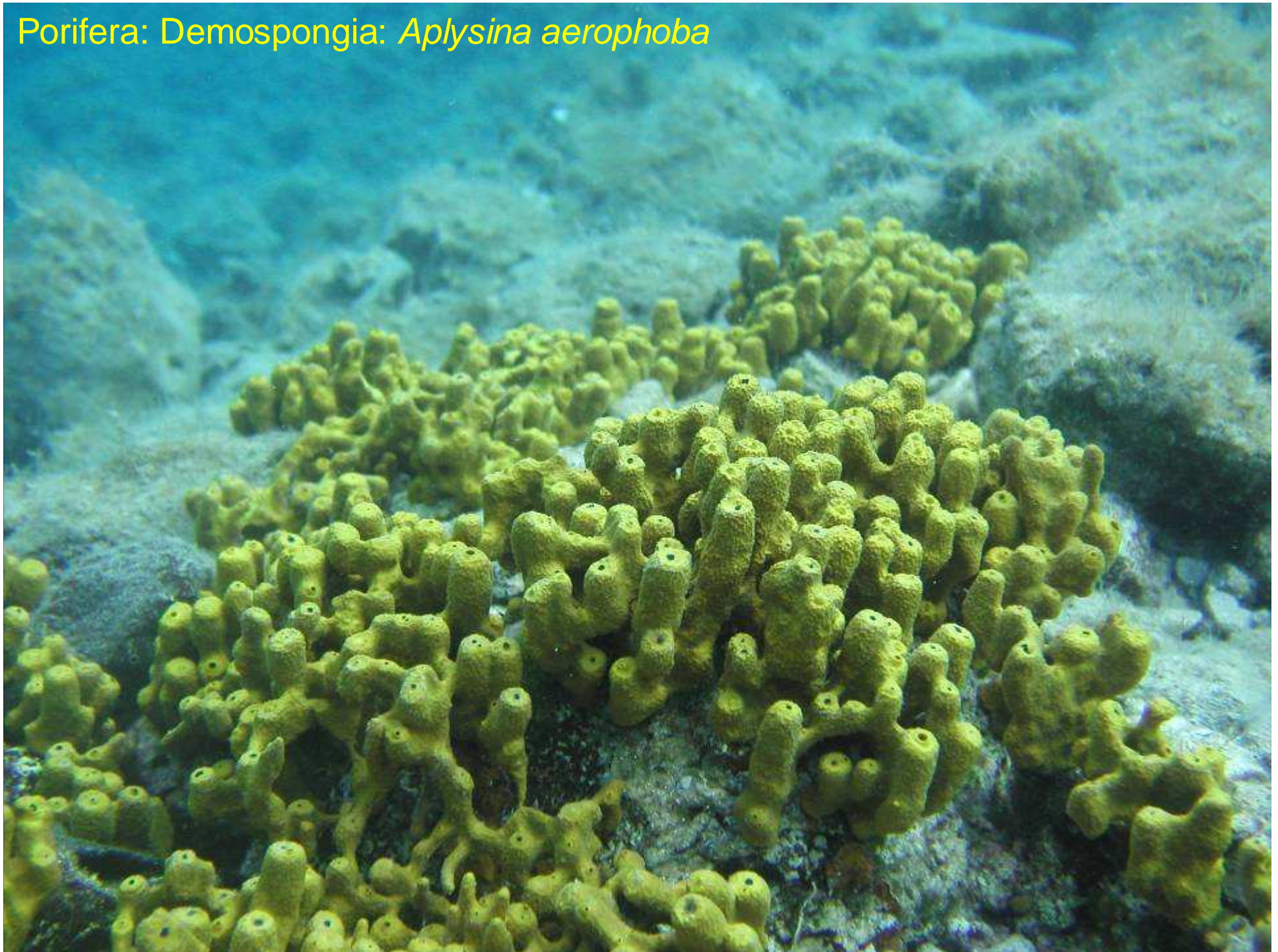
Porifera: Demospongia

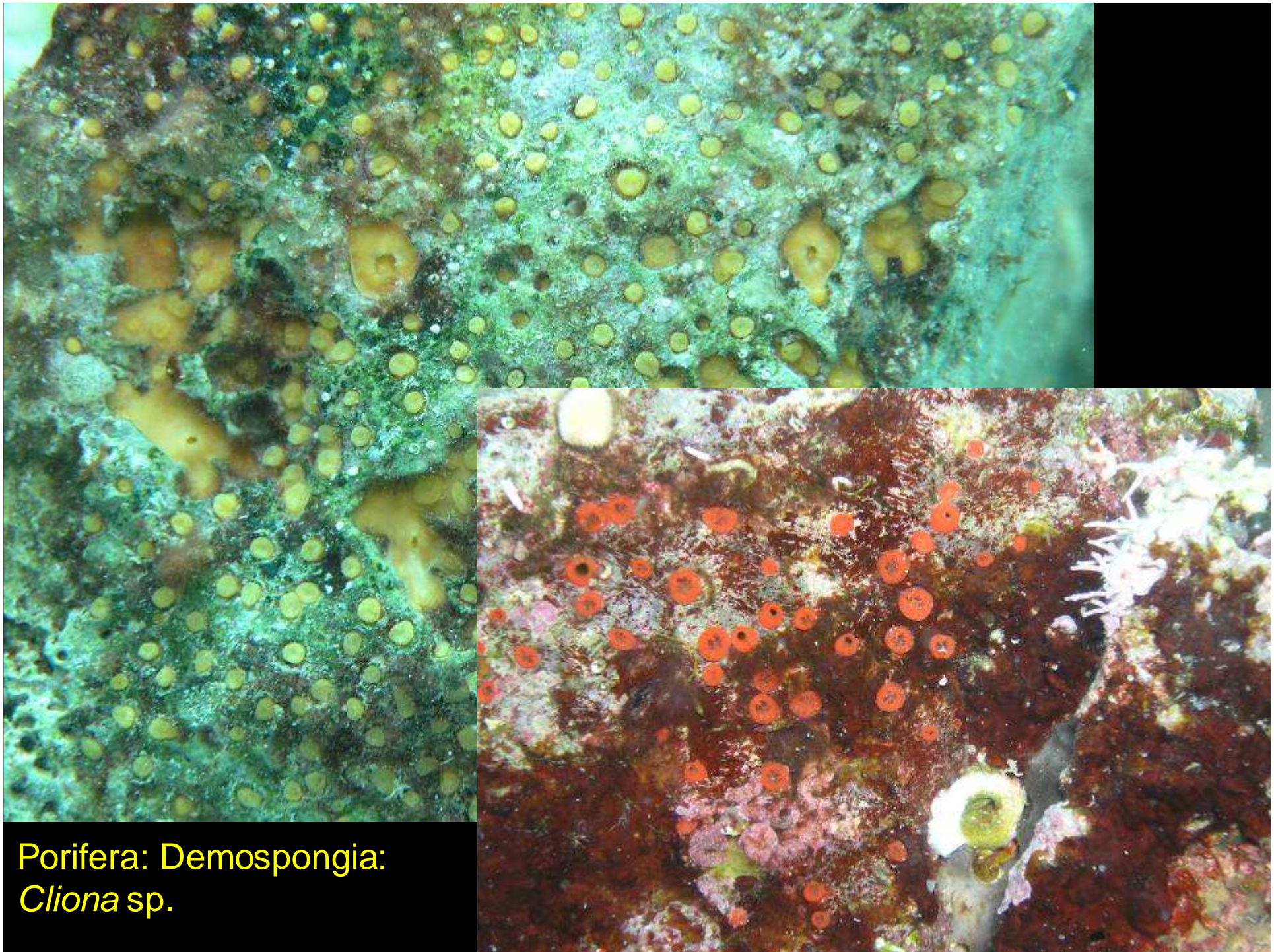
Oscarella lobularis

Porifera: Demospongia: *Suberites domuncula*



Porifera: Demospongia: *Aplysina aerophoba*





Porifera: Demospongia:
Cliona sp.

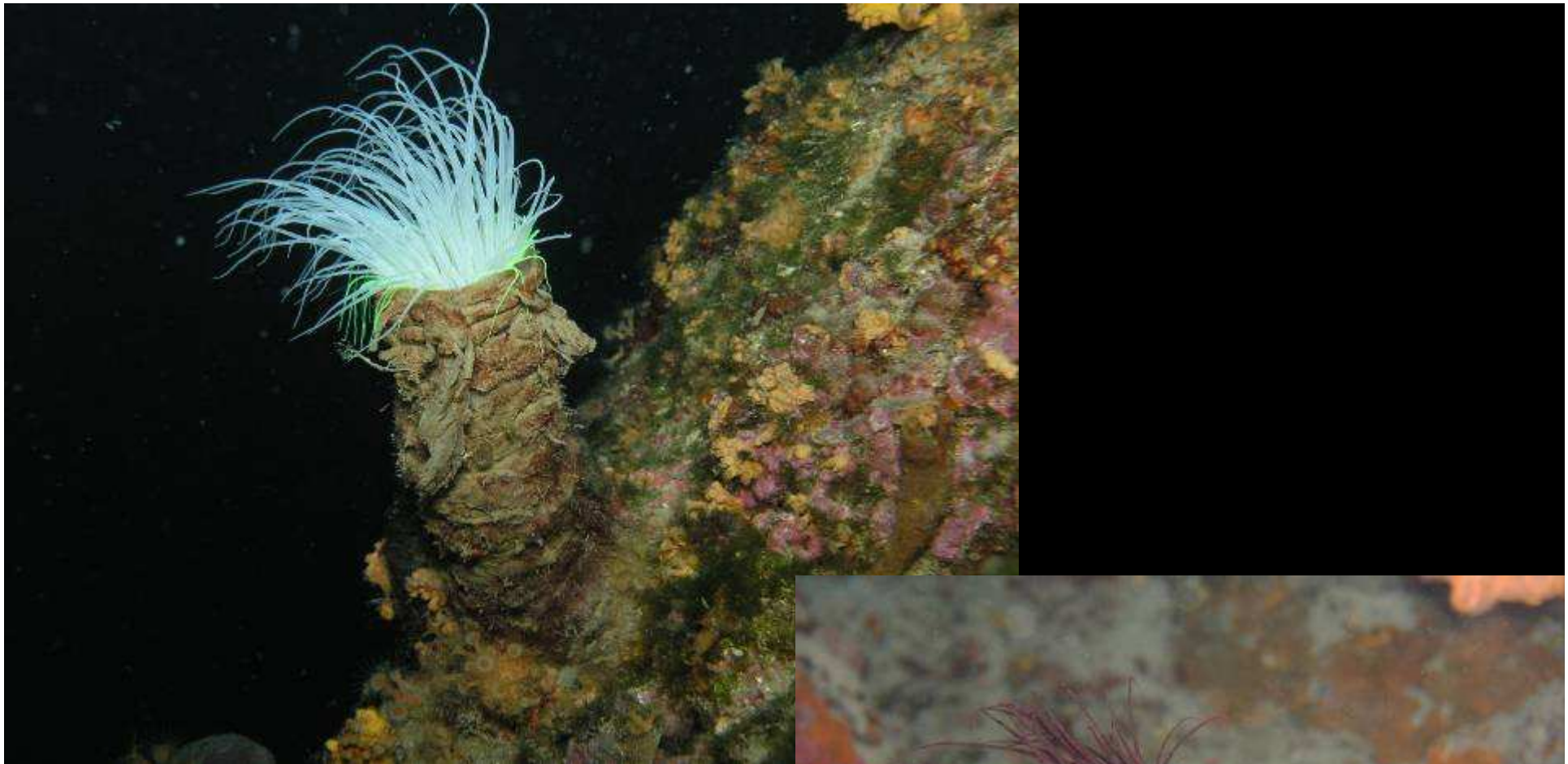
Porifera: Demospongia: *Calyx nicaensis*



Porifera: Demospongia: *Axinella verrucosa*



Cnidaria: Anthozoa: *Parazoanthus axinellae*



Cnidaria: Ceriantharia
Cerianthus membranaceus

Cnidaria: Actiniaria

Actinia equina



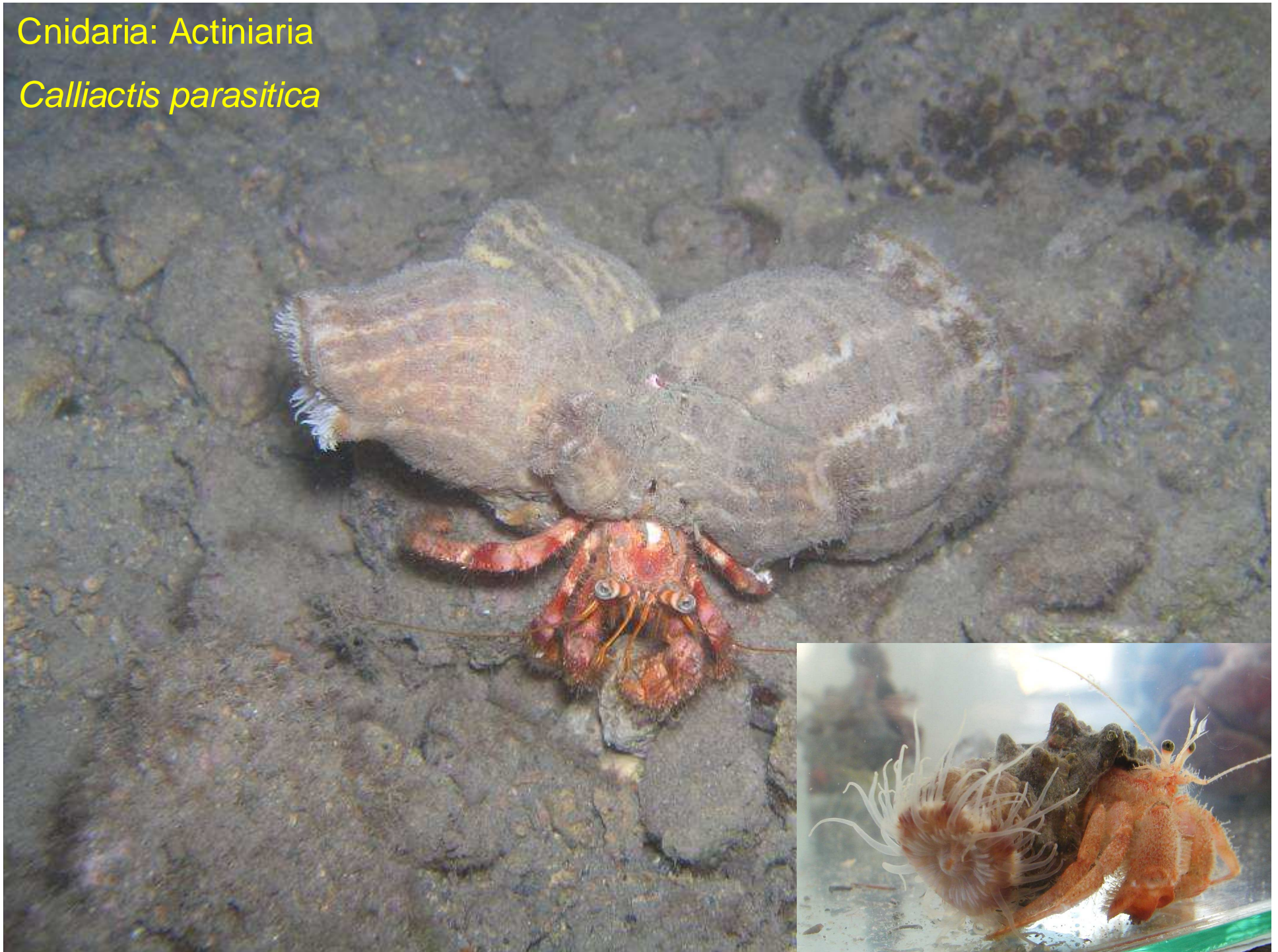


Cnidaria: Actiniaria

Adamsia palliata

Cnidaria: Actiniaria

Calliactis parasitica



Cnidaria: Actiniaria

Halcampoides purpurea



Cnidaria: Actiniaria

Alicia mirabilis



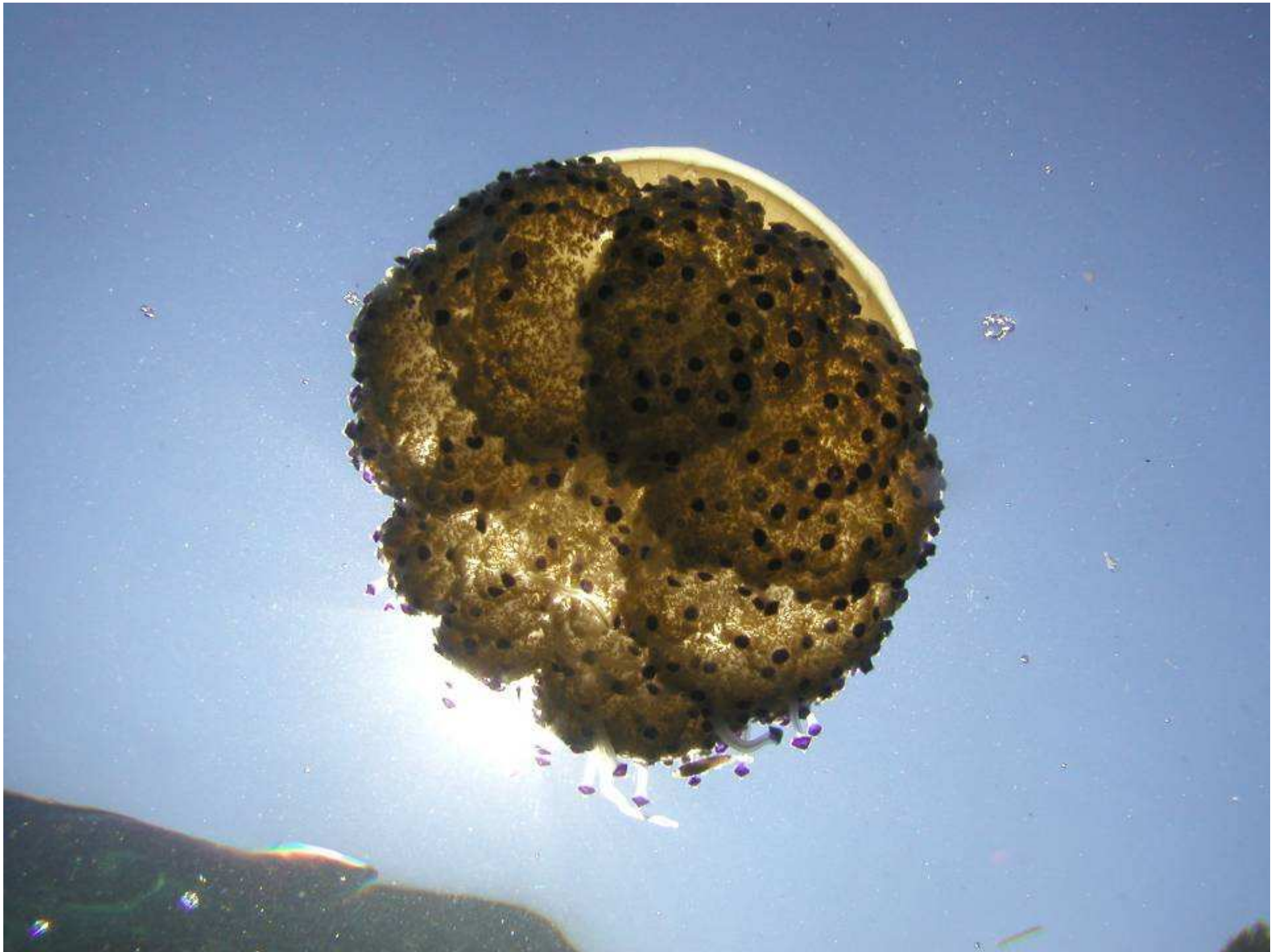
Cnidaria: Scyphozoa:

Pelagia noctiluca



Cnidaria: Scyphozoa - Rhizostomeae
Cotylorhiza tuberculata







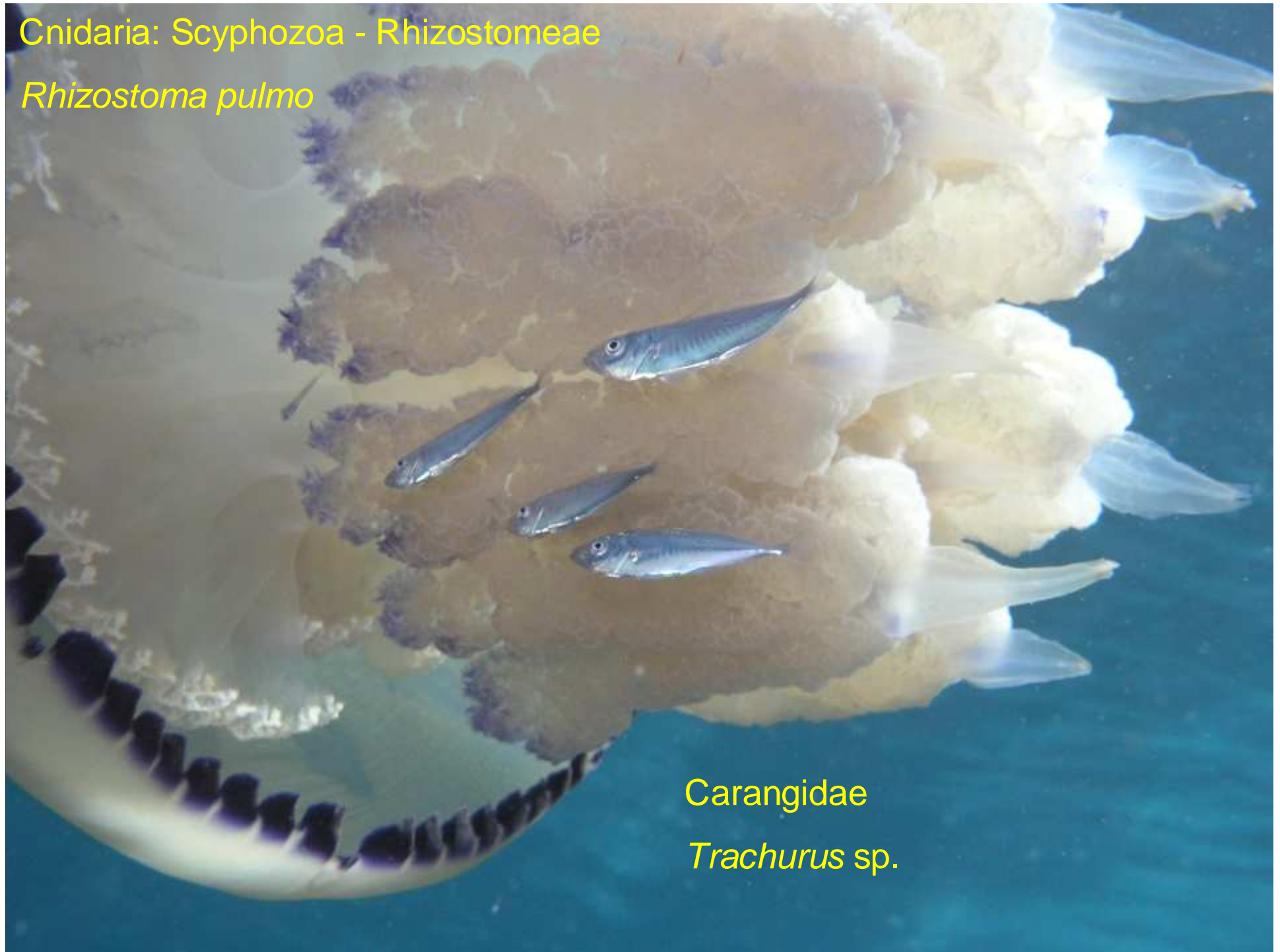
cnidaria: Scyphozoa - Rhizostomeae

Rhizostoma pulmo



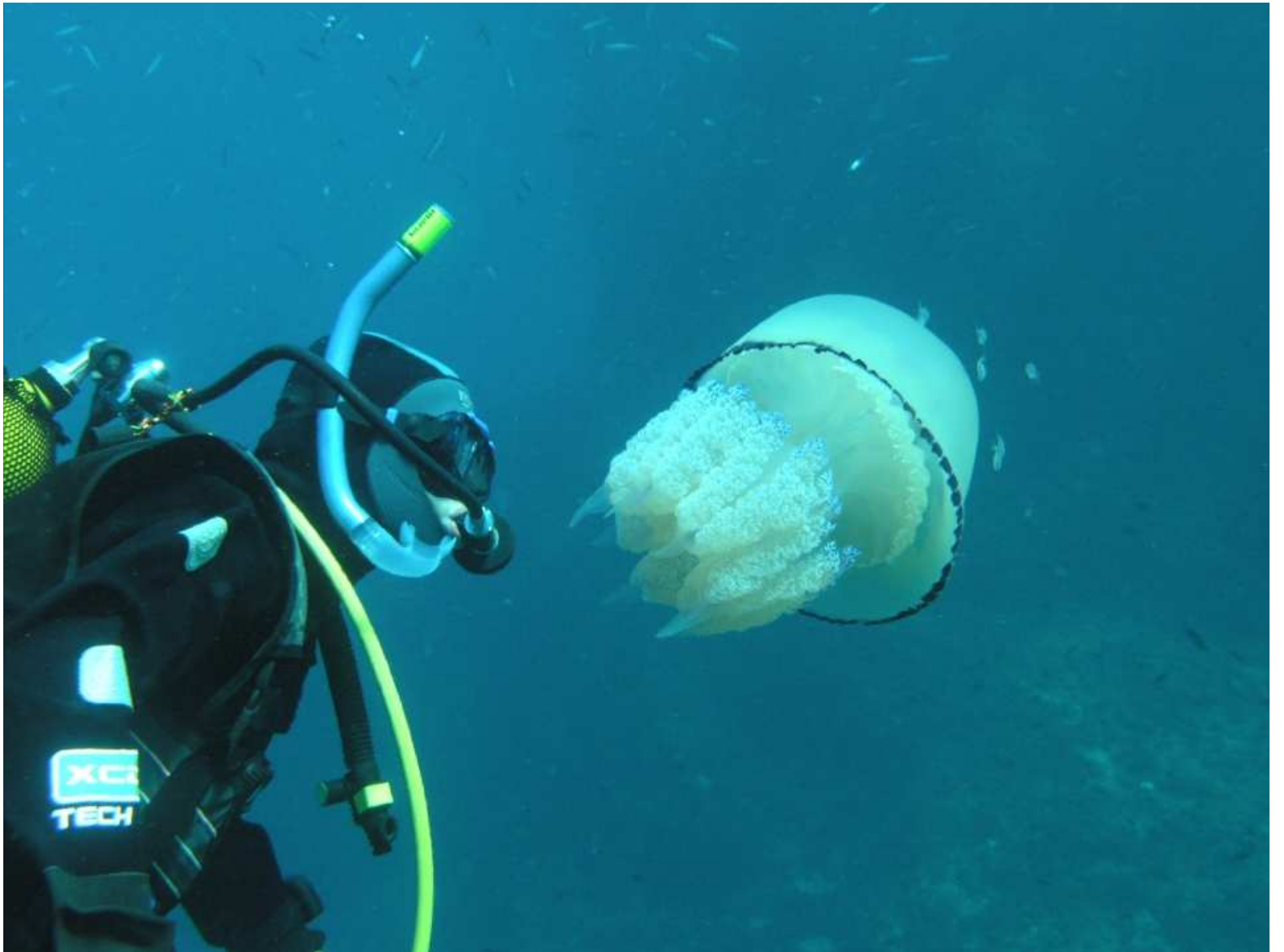
Cnidaria: Scyphozoa - Rhizostomeae

Rhizostoma pulmo



Carangidae

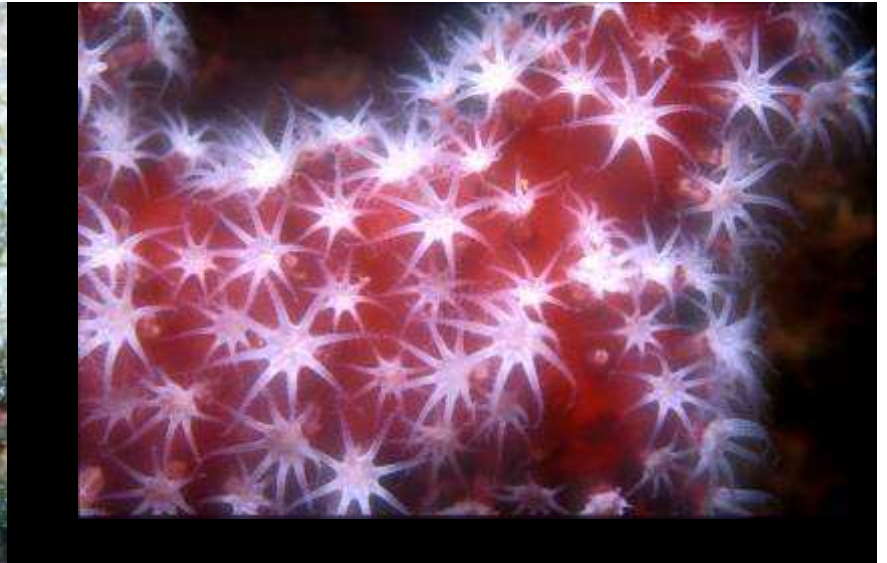
Trachurus sp.



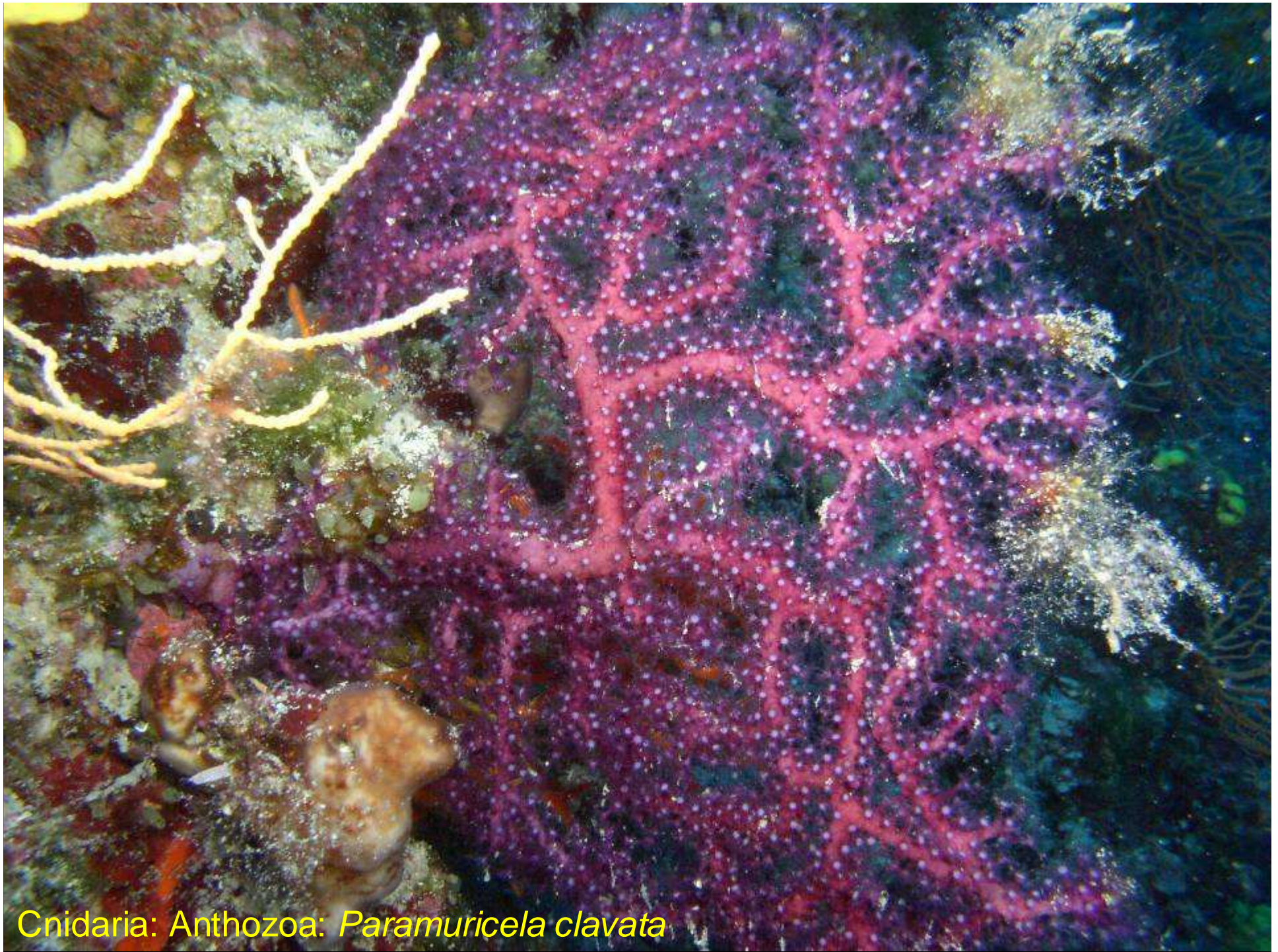


Cnidaria: Coralliomorpharia

Corynactis viridis



Cnidaria: Anthozoa
Alcyonium plamatum



Cnidaria: Anthozoa: *Paramuricela clavata*



Cnidaria: Anthozoa: *Paramuricela clavata*



Cnidaria: Anthozoa: *Eunicella cavolini*

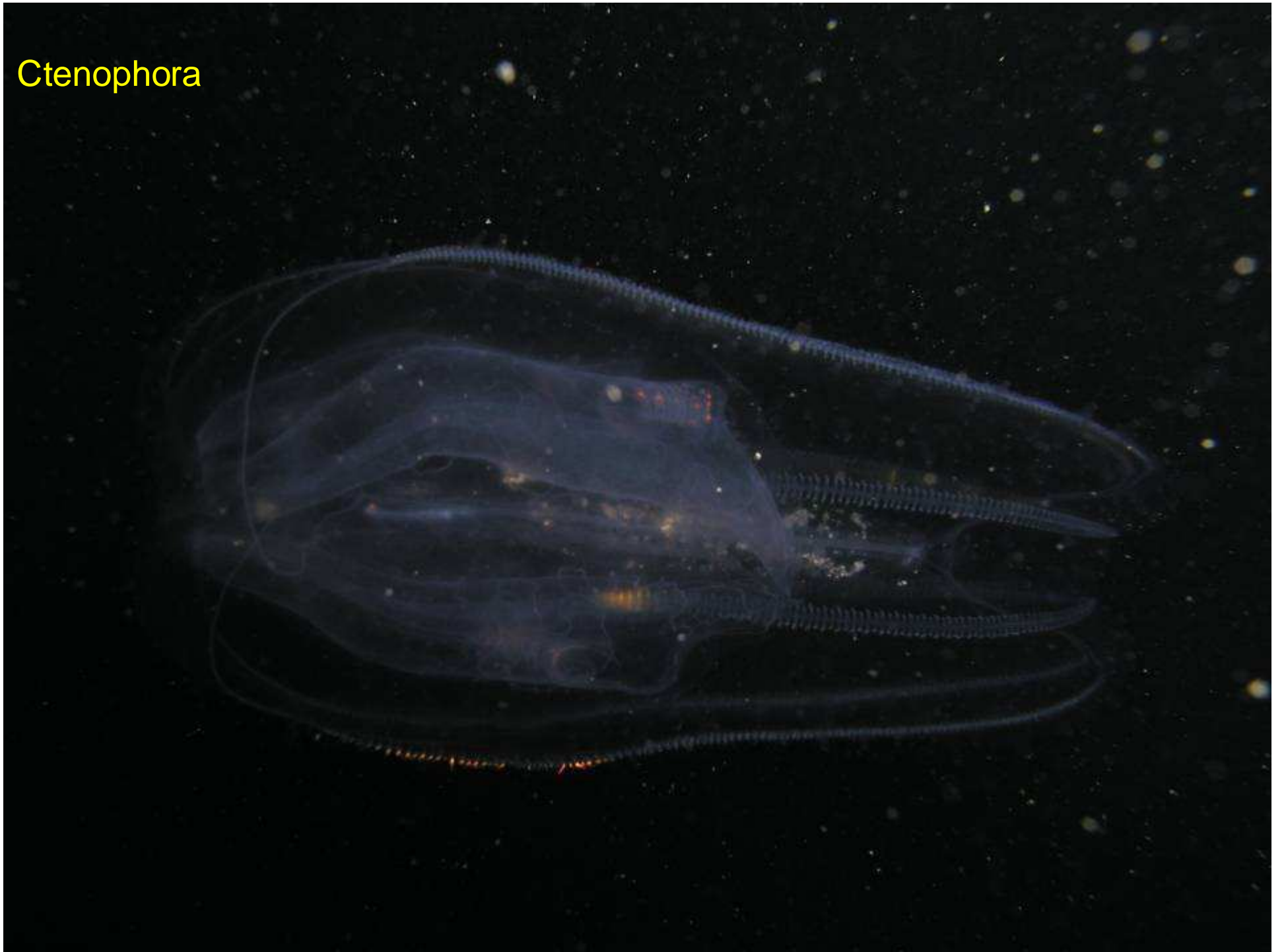
Cnidaria: Anthozoa: *Cladocora caespitosa*





Cnidaria: Anthozoa: *Coralium rubrum*

Ctenophora



Platyhelminthes: Polycladida:

Thysanozoon brocchi



Platyhelminthes: Polycladida



Platyhelminthes: Polycladida

Prostheceraeus vittatus





Platyhelminthes: Polycladida

Prostheceraeus giesbrechtii

Echiurida:

Bonnellia viridis





Echiurida: *Bonnellia viridis*

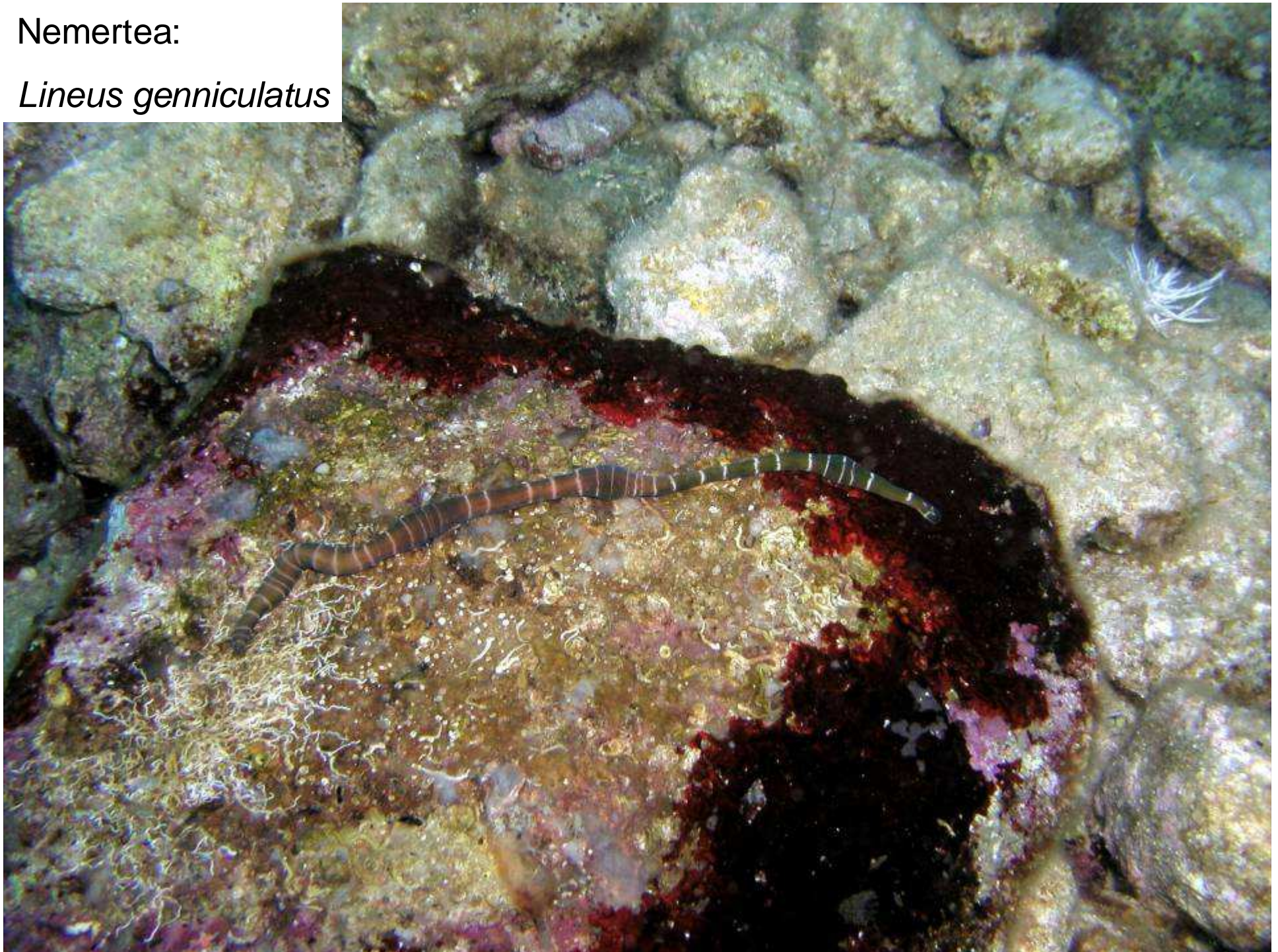
Echiurida:

Bonnellia viridis



Nemertea:

Lineus genniculatus





Bryozoa: Gymnolaemata

Smittina cf. cervicornis



Bryozoa: Gymnolaemata

Myriapora truncata



Bryozoa: Gymnolaemata
Reteporella sp.



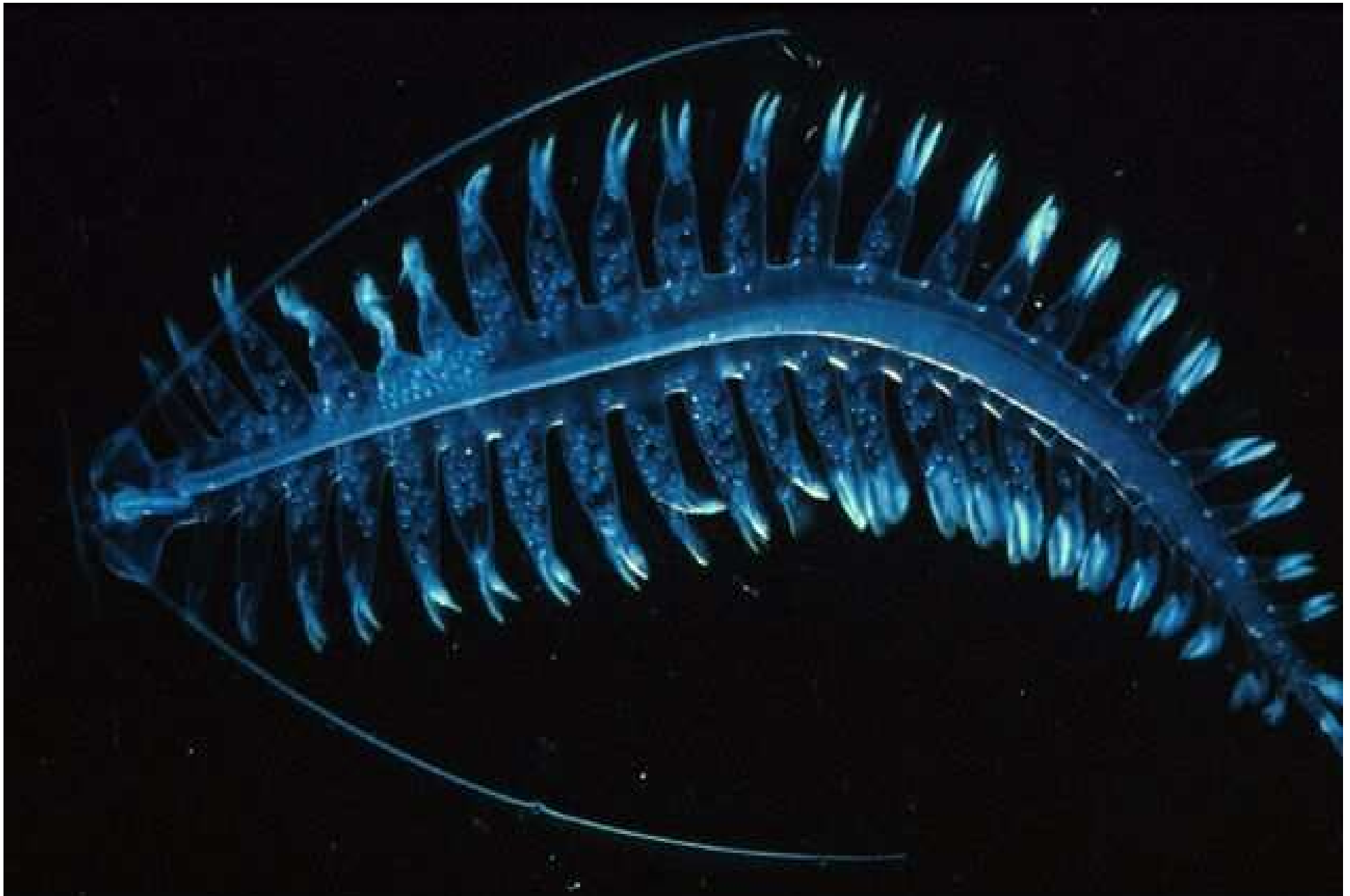
Annelida: Polychaeta: Eunicida

Eunice torquata



Annelida: Polychaeta:
Hermodice carunculata





Annelida: Polychaeta: Phyllodocida

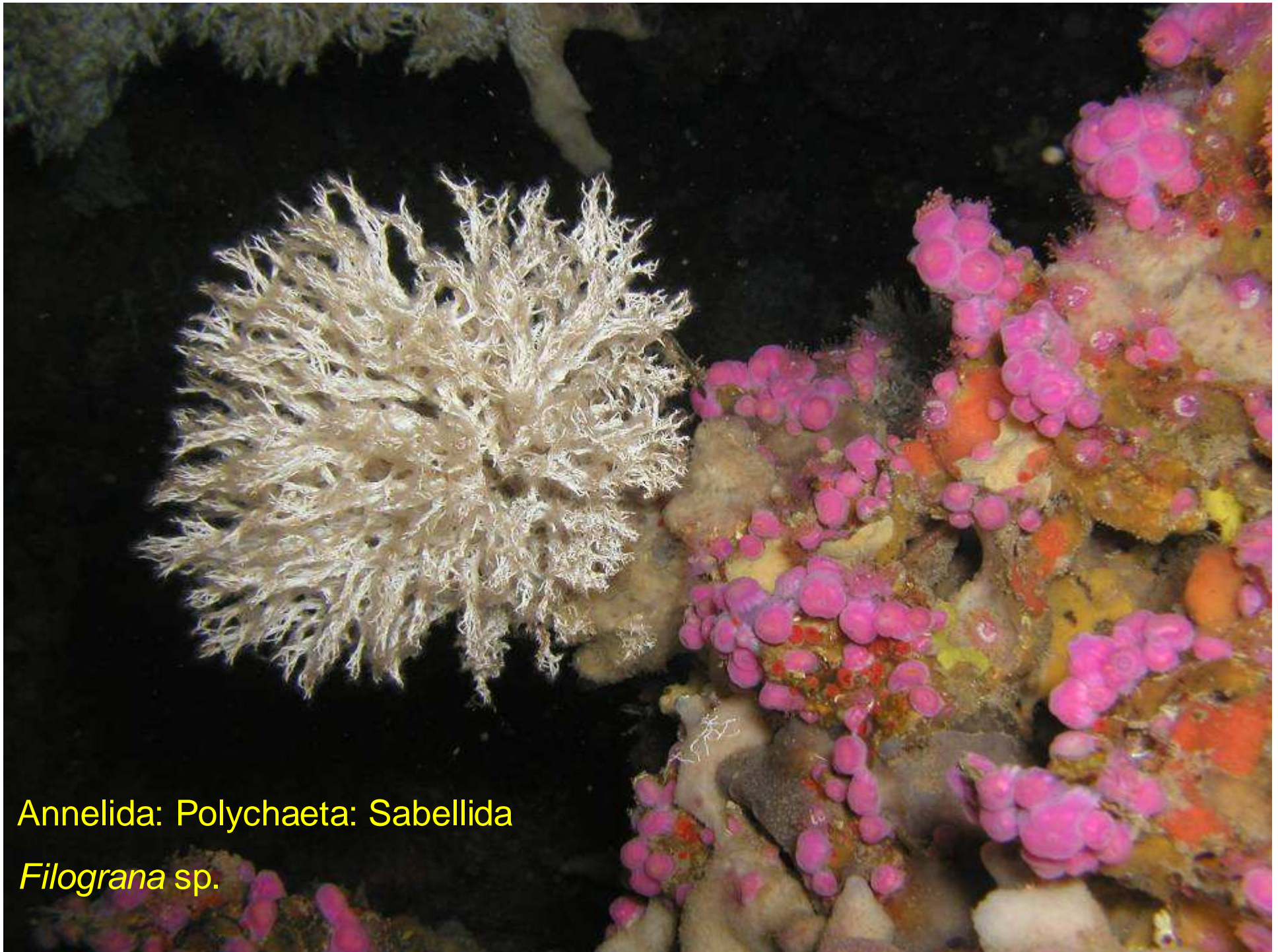
Tomopteris helgolandica

Annelida: Polychaeta:
Laetmonice histrix





Annelida: Polychaeta:
Harmathoe sp.



Annelida: Polychaeta: Sabellida

Filograna sp.

Annelida: Polychaeta: Sabellida

Pomaceros triqueter





Annelida: Polychaeta: Sabellida

Myxicola infundibulum

Anellida: Polychaeta: Sabellida

Protula sp.



Annelida: Polychaeta: Sabellida

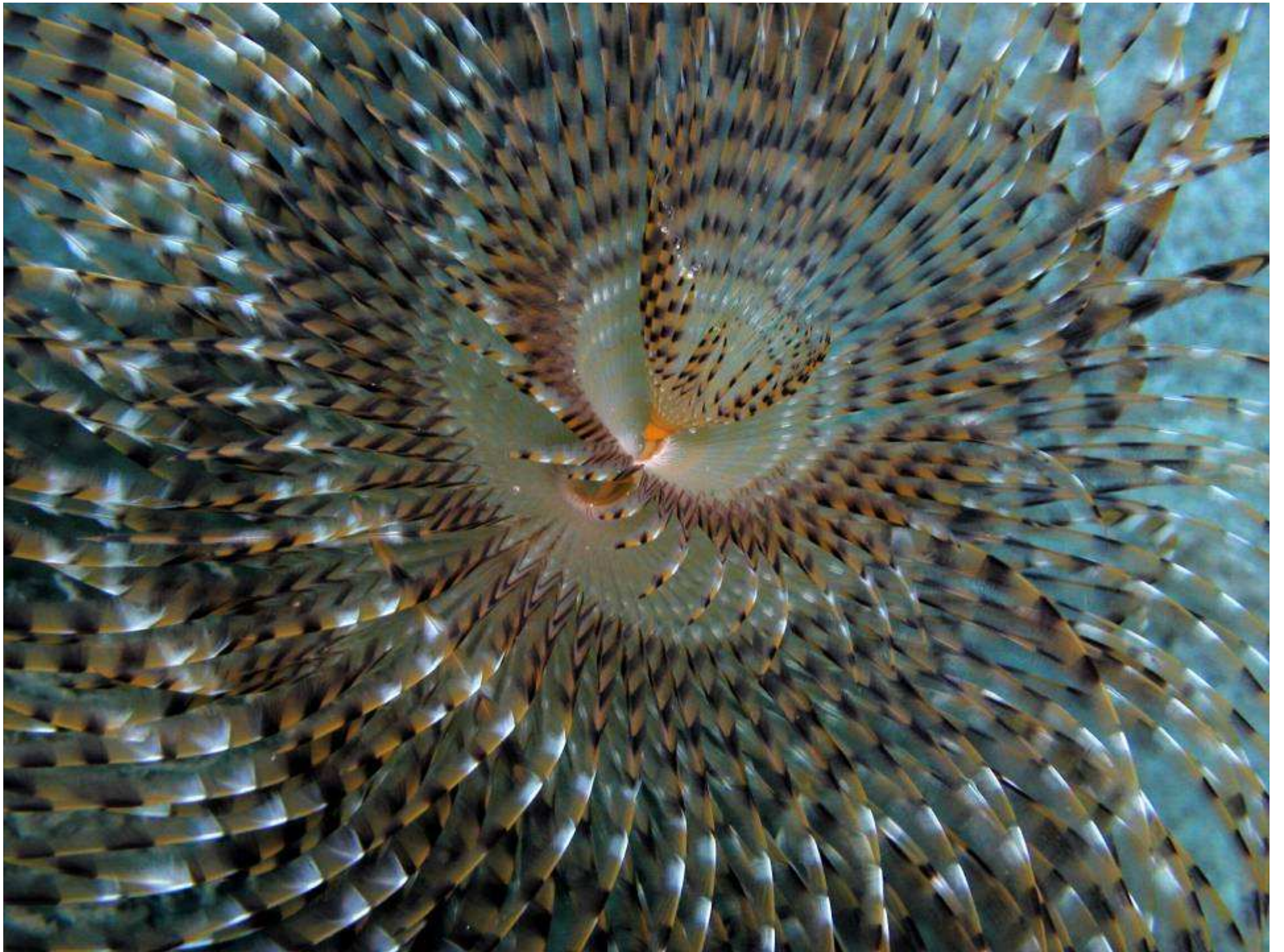
Serpula vermicularis





Annelida: Polychaeta: Sabellida

Sabella spalanzanii



Annelida: Polychaeta: Sabellida

Sabella pavonica.



Crustacea: Malacostraca

Caprella sp.





Crustacea: Malacostraca - Decapoda

Processa sp.

Crustacea: Malacostraca - Decapoda

Palaemon elegans



Crustacea: Malacostraca - Decapoda

Palaemon elegans



Crustacea: Malacostraca - Decapoda

***Lysmata* sp.**





A close-up photograph of a green sea anemone with numerous long, pale green tentacles. The tentacles have small, pinkish-purple tips. A small, blue and white crab is visible on the dark, sandy seabed in the lower right corner of the frame. The background is slightly blurred, showing more of the seabed and some small white shells.

Cnidaria – Actiniaria
Anemonia viridis

Crustacea: Malacostraca – Decapoda
Periclimenes aegylios



Cnidaria – Actiniaria
Condylactis aurantiaca

Crustacea: Malacostraca – Decapoda
Periclimenes scriptus



Crustacea: Decapoda

Gallatea strigosa



Crustacea: Decapoda

Dardanus pallidus

Crustacea: Decapoda

Alpheus sp.





Crustacea: Decapoda

Gnatophilum elegans



Crustacea: Decapoda - Brachyura

Illia nucleus



Crustacea: Decapoda - Brachyura

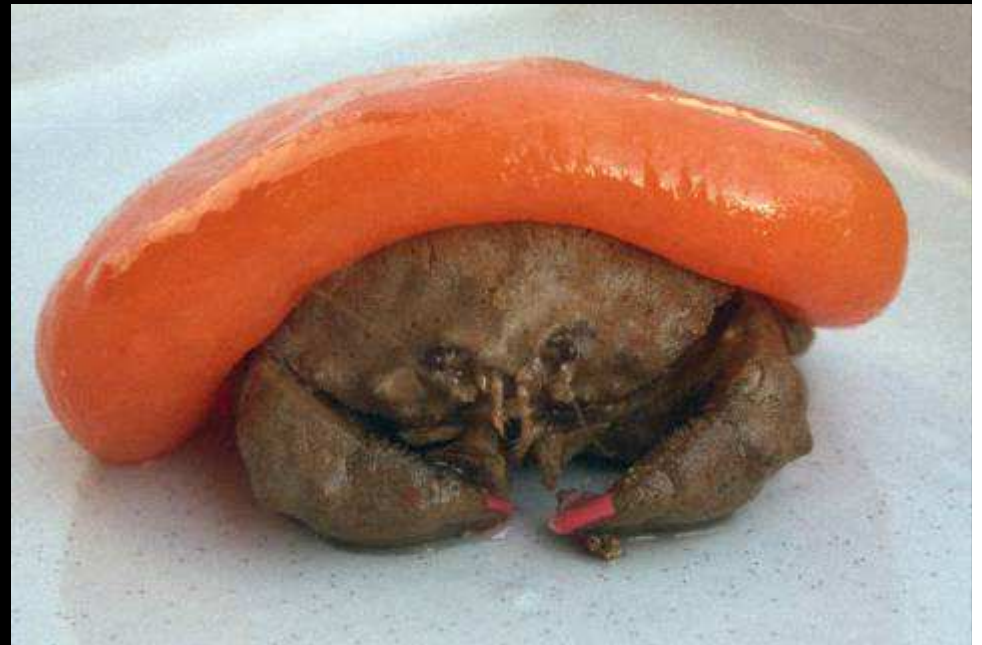
Eriphia verrucosa





Crustacea: Decapoda - Brachyura

Dromia personata







Crustacea: Decapoda

Macropodia sp.

Crustacea: Decapoda

Inachus sp.

Cnidaria: Actinidia

Condylactis aurantiaca



Crustacea: Decapoda - Brachyura

Pachygrapsus marmoratus







Crustacea: Decapoda - Brachyura

Ethusa mascarone

Crustacea: Decapoda

Maja sp.



Crustacea: Decapoda

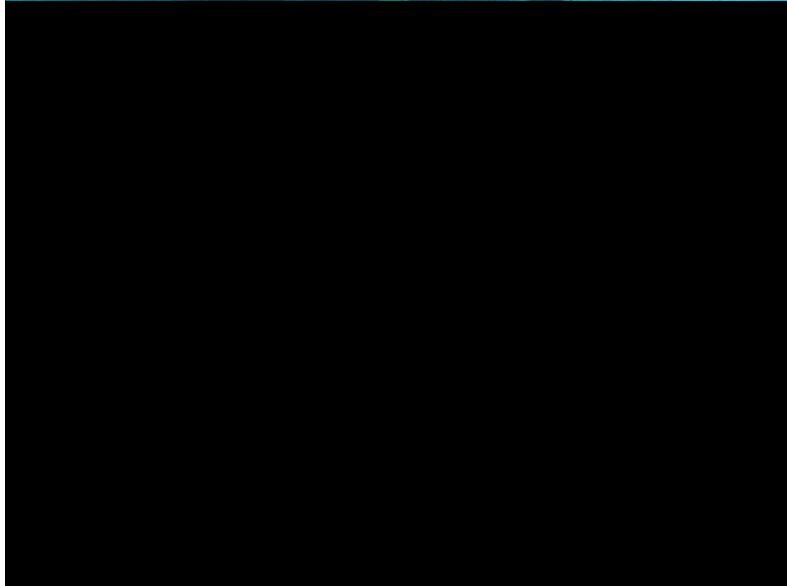
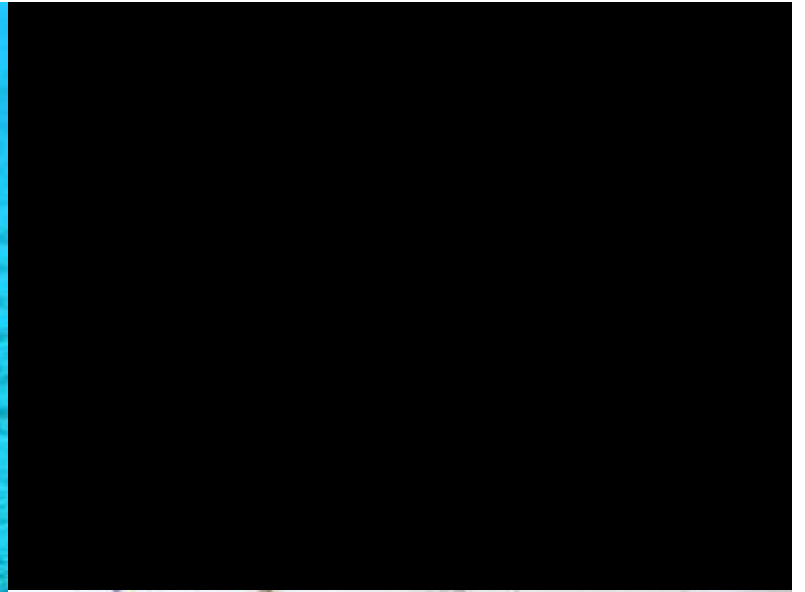
Maja sp.



Crustacea: Decapoda

Maja sp.





Crustacea: Decapoda

Parthenope angulifrons



Crustacea: Decapoda

Lisa chiragra





Crustacea: Decapoda

Pilumnus sp.



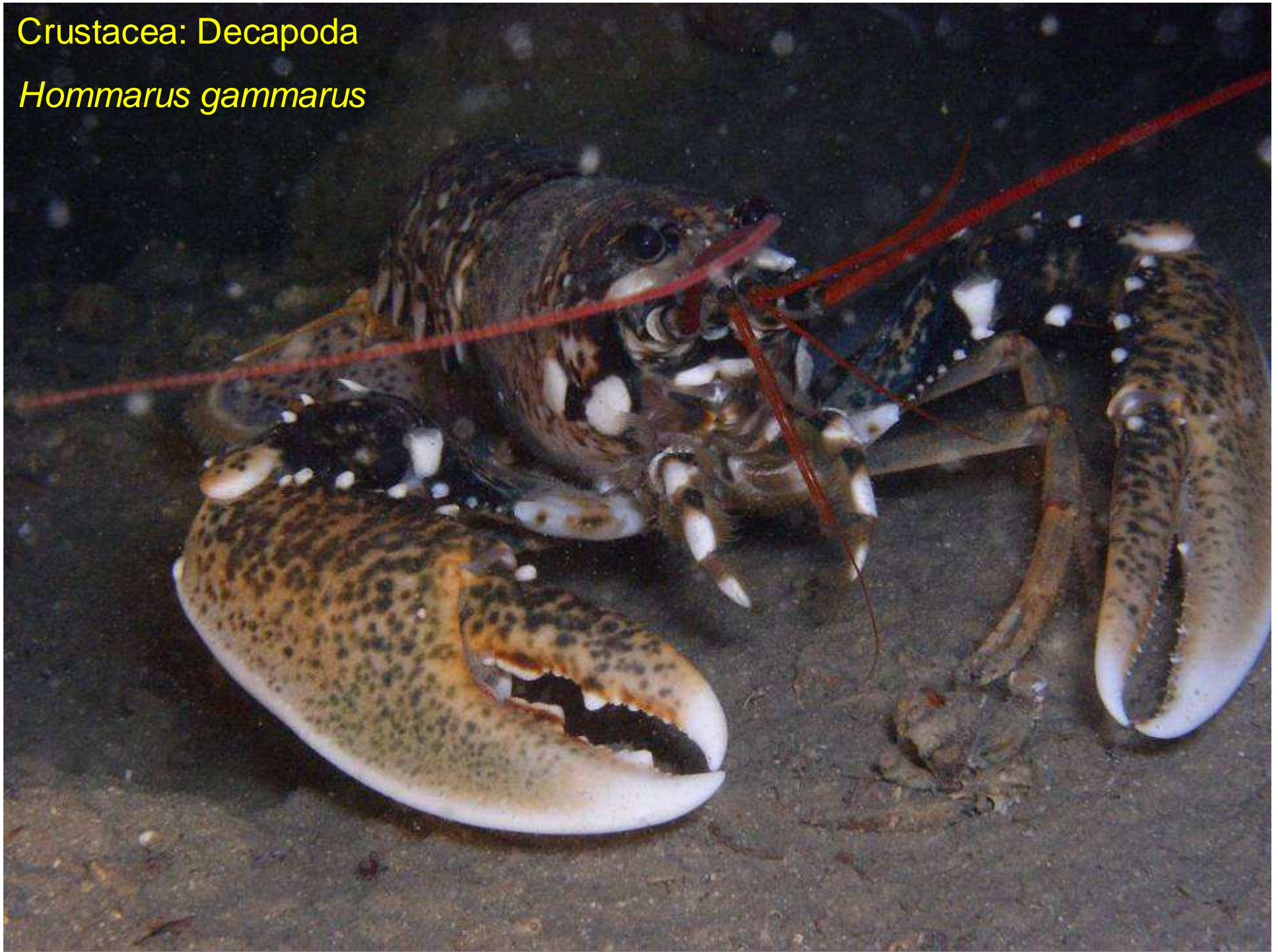
Crustacea: Decapoda

Liocarcinus sp.



Crustacea: Decapoda

Hommarus gammarus





Crustacea: Decapoda

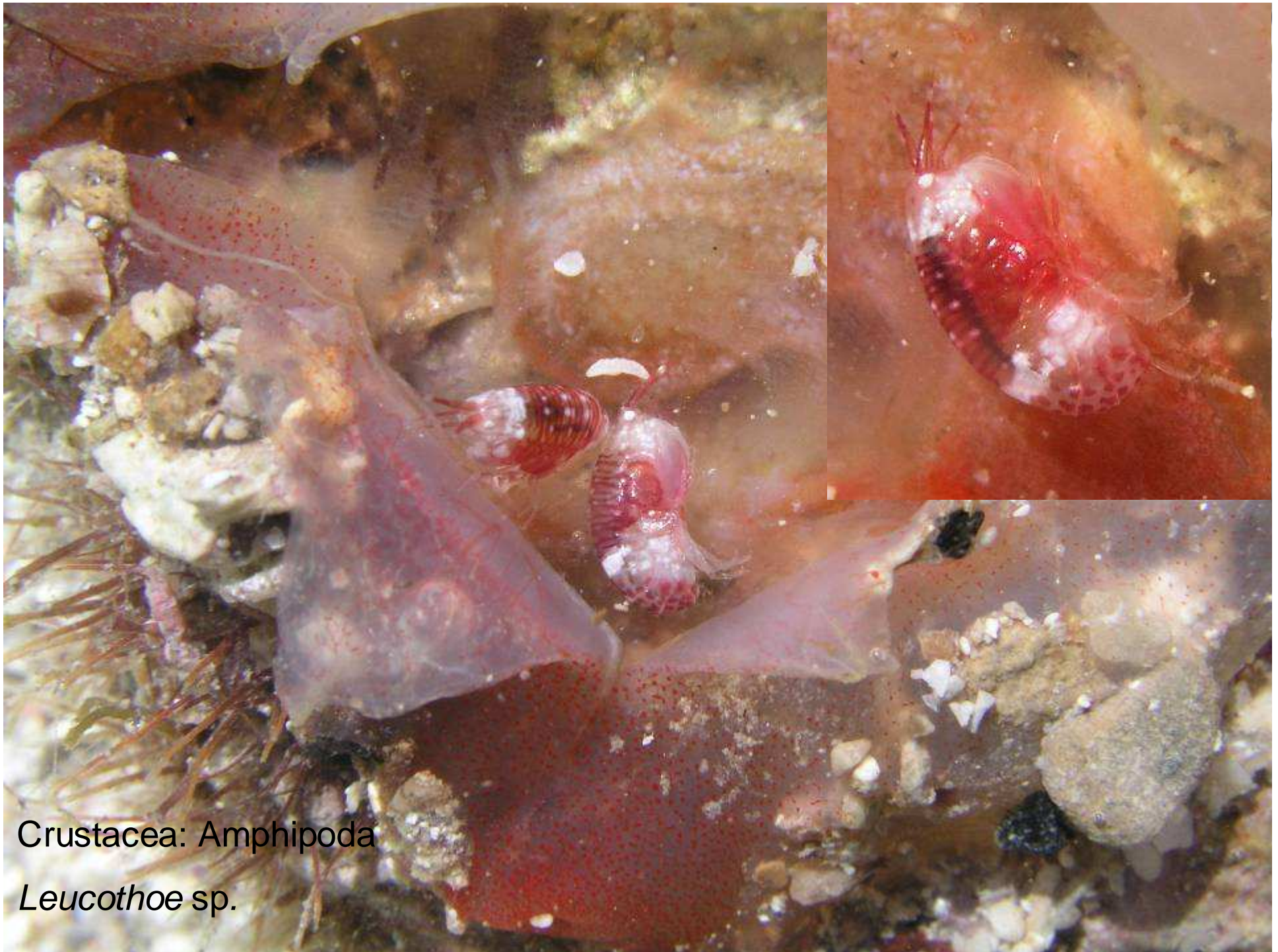
Palinurus vulgaris





Crustacea: Decapoda

Scyllarus arctus



Crustacea: Amphipoda

Leucothoe sp.



Crustacea:

Sacculina carcini



ea: Mysisidacea

o.

Sipunculida





Mollusca: Polyplacophora: Lepidopleurida:

Lepidopleus cajetanus



Acanthochitonida:
Acanthochitona fasciolaris

Mollusca: Gastropoda

Emarginula sp.



Mollusca: Gastropoda – „Prosobranchia“

Haliotis tuberculatus





Mollusca: Gastropoda - „Prosobranchia“

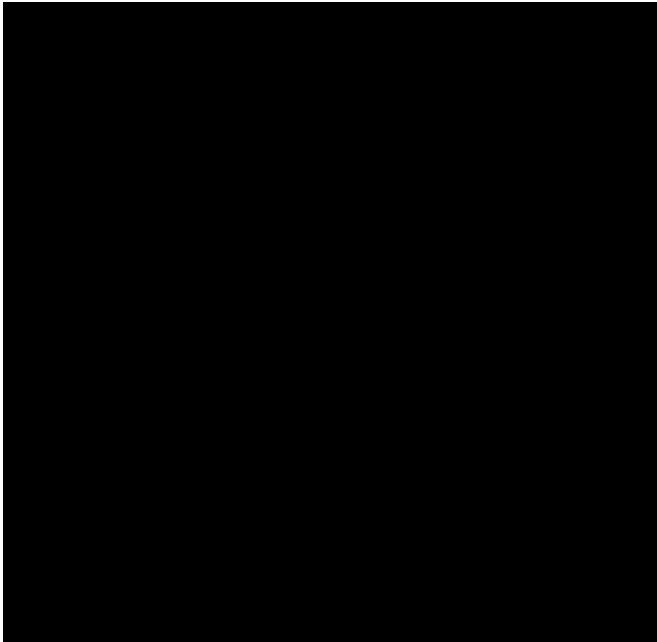
Naticarius sp.





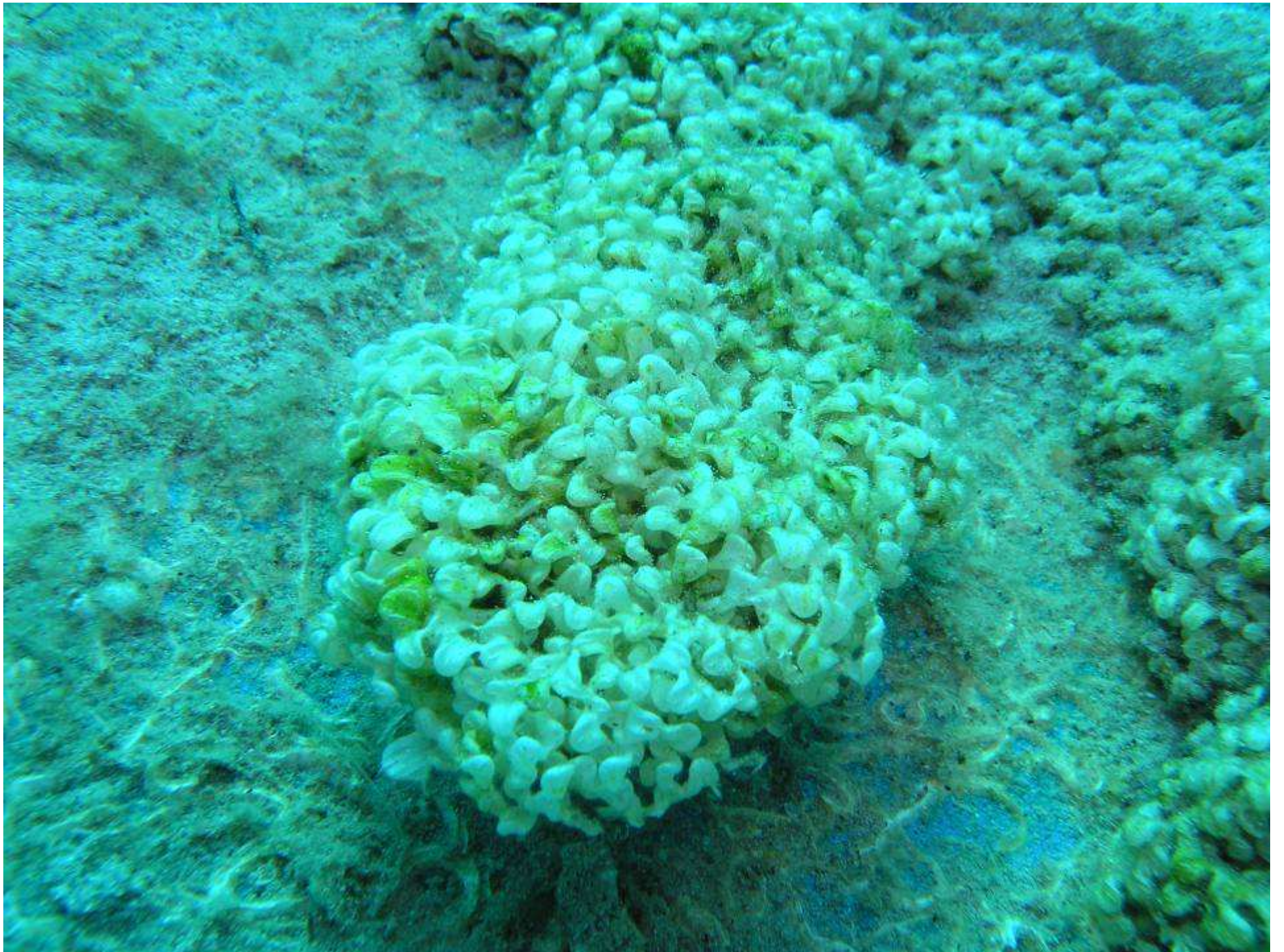
Mollusca: Gastropoda –
„Prosobranchia“

Tonna galea



Mollusca: Gastropoda –
„Prosobranchia“

Hexaplex trunculus



Mollusca: Gastropoda – „Prosobranchia“:

Luria lurida



Mollusca: Gastropoda – „Prosobranchia“

Serpulorbis arenaria



Mollusca: Gastropoda –
Opisthobranchia: Anaspidea
Aplysia depilans







Mollusca: Gastropoda –
Opisthobranchia: Notaspidea
Umbraculum mediterraneum

Mollusca: Gastropoda –
Opisthobranchia: Notaspidea

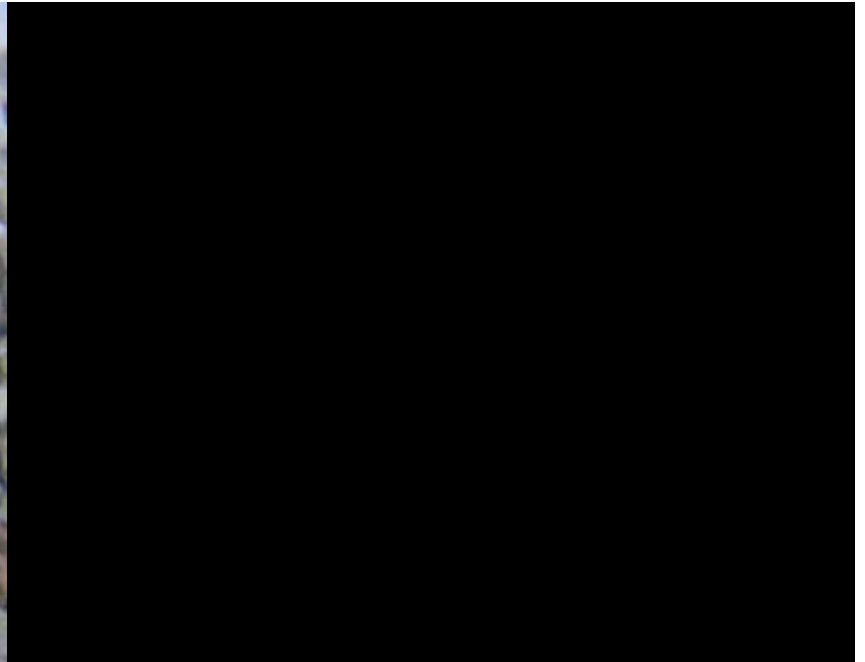
Berthella stellata



Mollusca: Gastropoda –
Opisthobranchia: Notaspidea

Tylodina peversa





Mollusca: Gastropoda - Opisthobranchia: Sacoglossa

Thuridilla hopei

Mollusca:

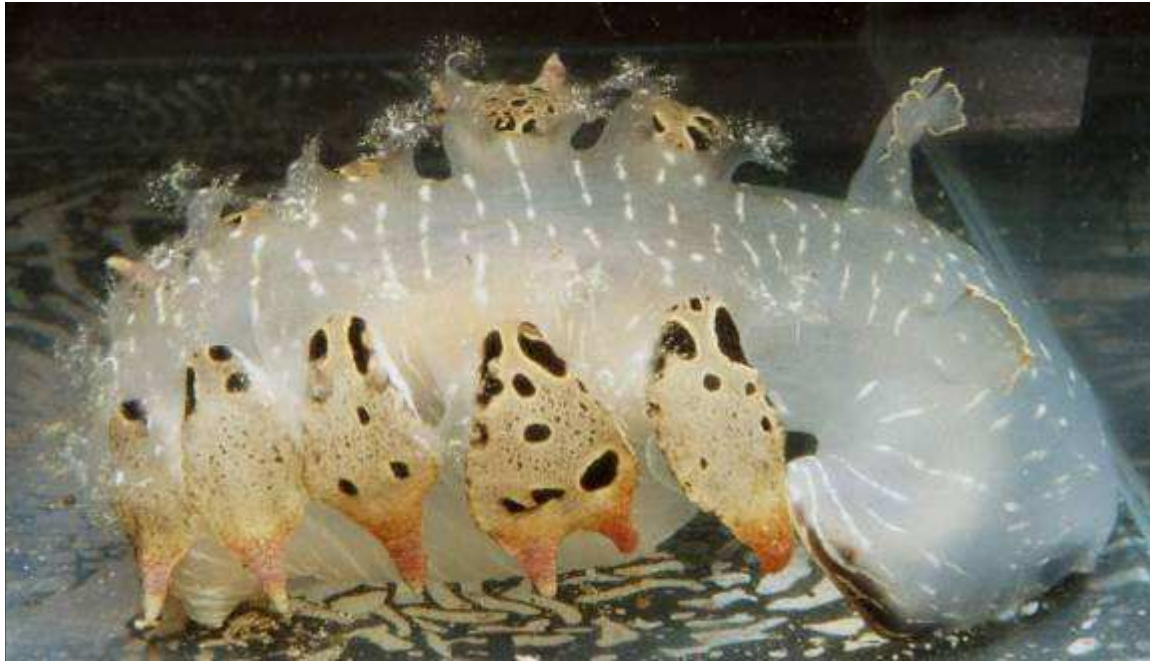
Gastropoda –

Opisthobranchia:

Sacoglossa

Cyerce graeca





Mollusca: Gastropoda –
Opisthobranchia: Nudibranchia
Tethys fimbria



Mollusca: Gastropoda – Opisthobranchia:
Nudibranchia

Phyllidia flava





Mollusca: Gastropoda – Opisthobranchia: Nudibranchia

Discodoris atromaculata



Mollusca: Gastropoda – Opisthobranchia: Nudibranchia

Dendrodoris grandiflora

Mollusca: Gastropoda – Opisthobranchia: Nudibranchia

Platydoris argo



Mollusca: Gastropoda – Opisthobranchia: Nudibranchia

Chromodoris luteorosea



Mollusca: Gastropoda – Opisthobranchia: Nudibranchia

Hypselodoris tricolor





Mollusca: Gastropoda – Opisthobranchia: Nudibranchia

Hypselodoris picta







Mollusca: Gastropoda – Opisthobranchia:
Nudibranchia

Hypselodoris picta

Mollusca: Gastropoda – Opisthobranchia: Nudibranchia

Scyllaea pelagica



Mollusca: Gastropoda –
Opisthobranchia: Nudibranchia

Janolus cristatus



Mollusca: Gastropoda – Opisthobranchia:
Nudibranchia

Spurilla neapolitana



Mollusca: Gastropoda – Opisthobranchia:
Nudibranchia

Limacina clavigera



Mollusca: Gastropoda – Opisthobranchia: Nudibranchia

Flabellina affinis



Mollusca: Gastropoda – Opisthobranchia: Nudibranchia

Flabellina ischitana





Mollusca: Gastropoda –
Opisthobranchia: Nudibranchia

Dondice banyulensis

Mollusca: Gastropoda –
Opisthobranchia: Nudibranchia

Cratena peregrina



Mollusca: Scaphopoda

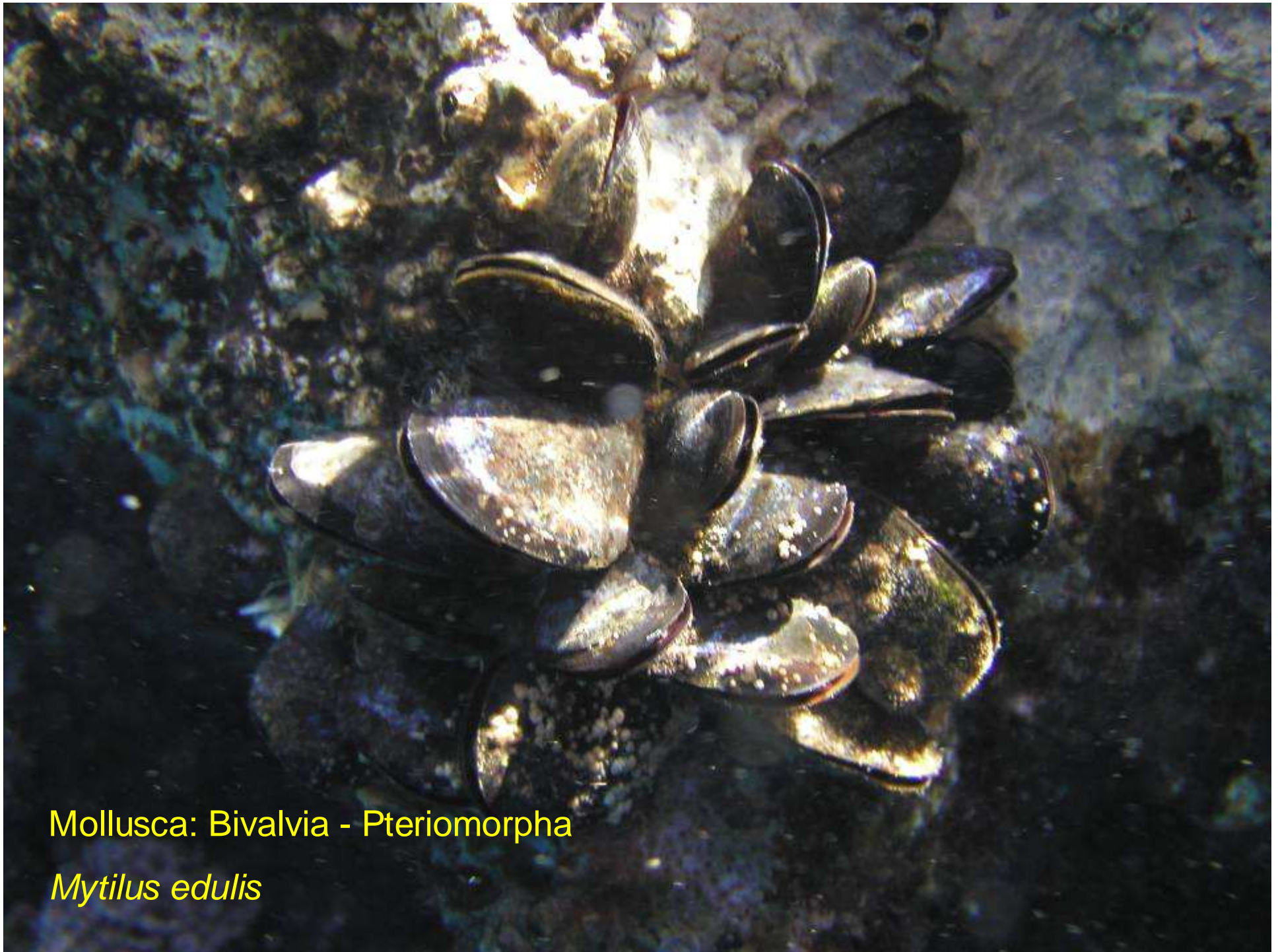
Dentalium sp.





Mollusca: Bivalvia - Pteriomorpha

Glycimeris glycimeris



Mollusca: Bivalvia - Pteriomorpha

Mytilus edulis

Mollusca: Bivalvia -
Pteriomorpha

Litophaga litophaga





Mollusca: Bivalvia - Pteriomorpha

Perna nobilis



Mollusca: Bivalvia - Pteriomorpha

Lima inflata





Mollusca: Bivalvia - Pteriomorpha

Pecten jacobaeus

Mollusca: Bivalvia - Pteriomorpha

Chlamys pesfelis



Mollusca: Bivalvia - Pteriomorpha

Spondylus sp.





Mollusca: Bivalvia - Heterodonta

Soletocurtus strigilatus

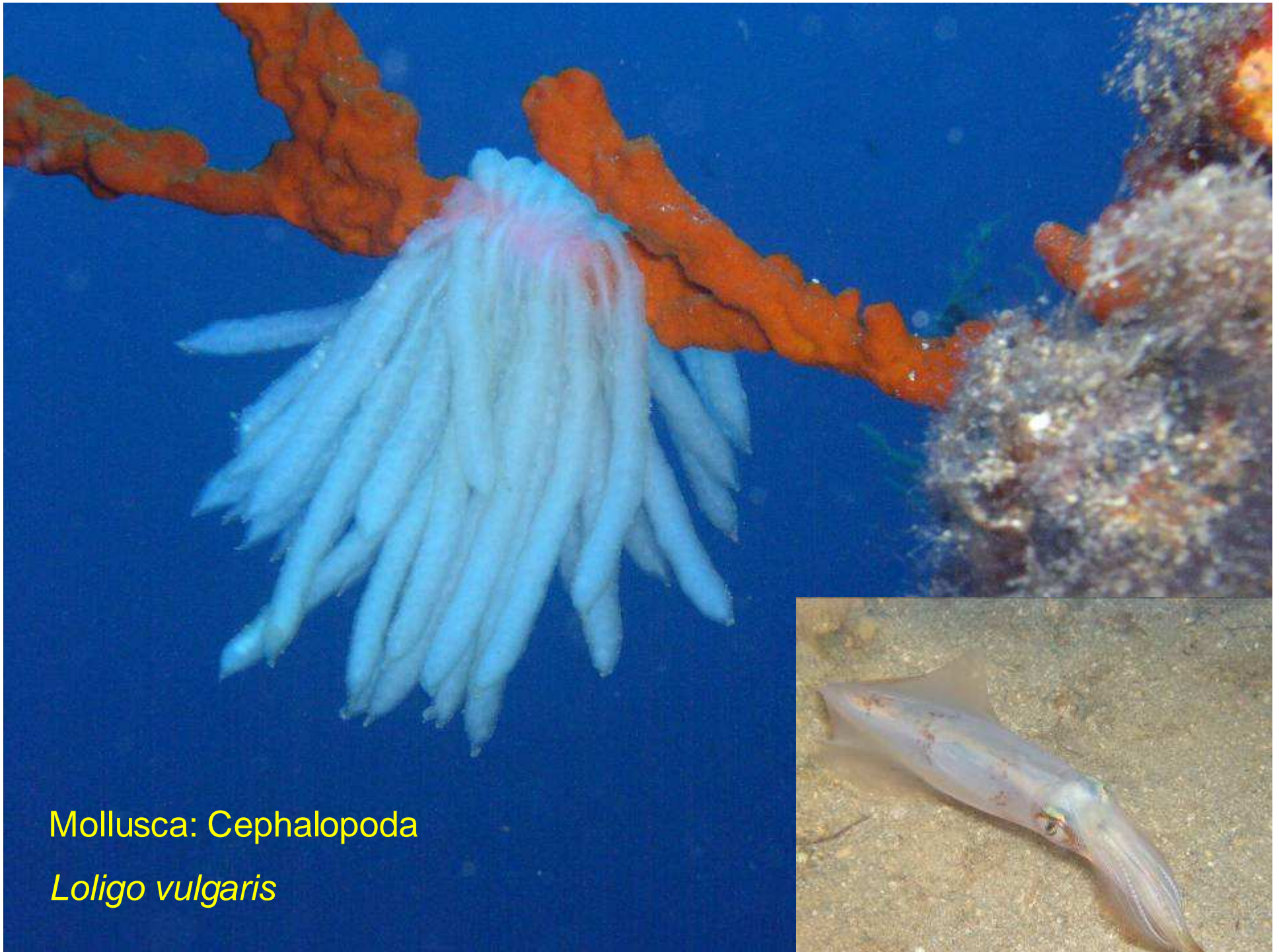












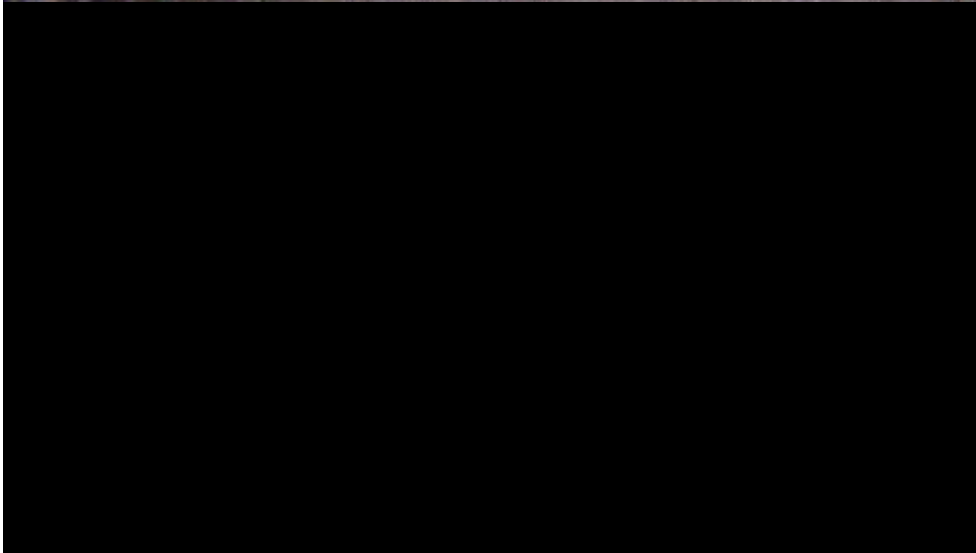
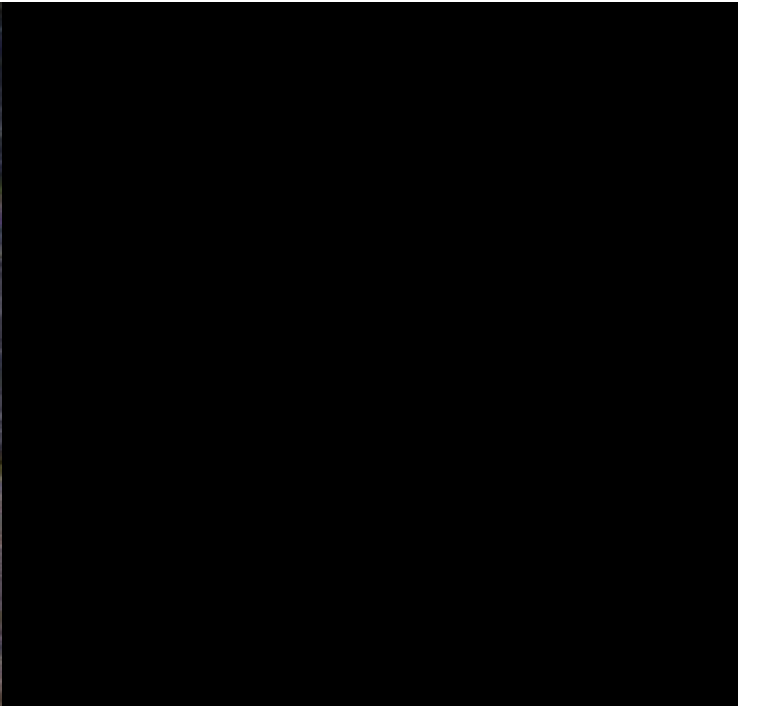
Mollusca: Cephalopoda

Loligo vulgaris

Mollusca: Cephalopoda - Sepiida

Sepia officinalis







Mollusca: Cephalopoda -Sepioida

Sepioida sp.





Mollusca: Cephalopoda - Octopida

Eledone moschata



Mollusca: Cephalopoda - Octopida

Eledone moschata

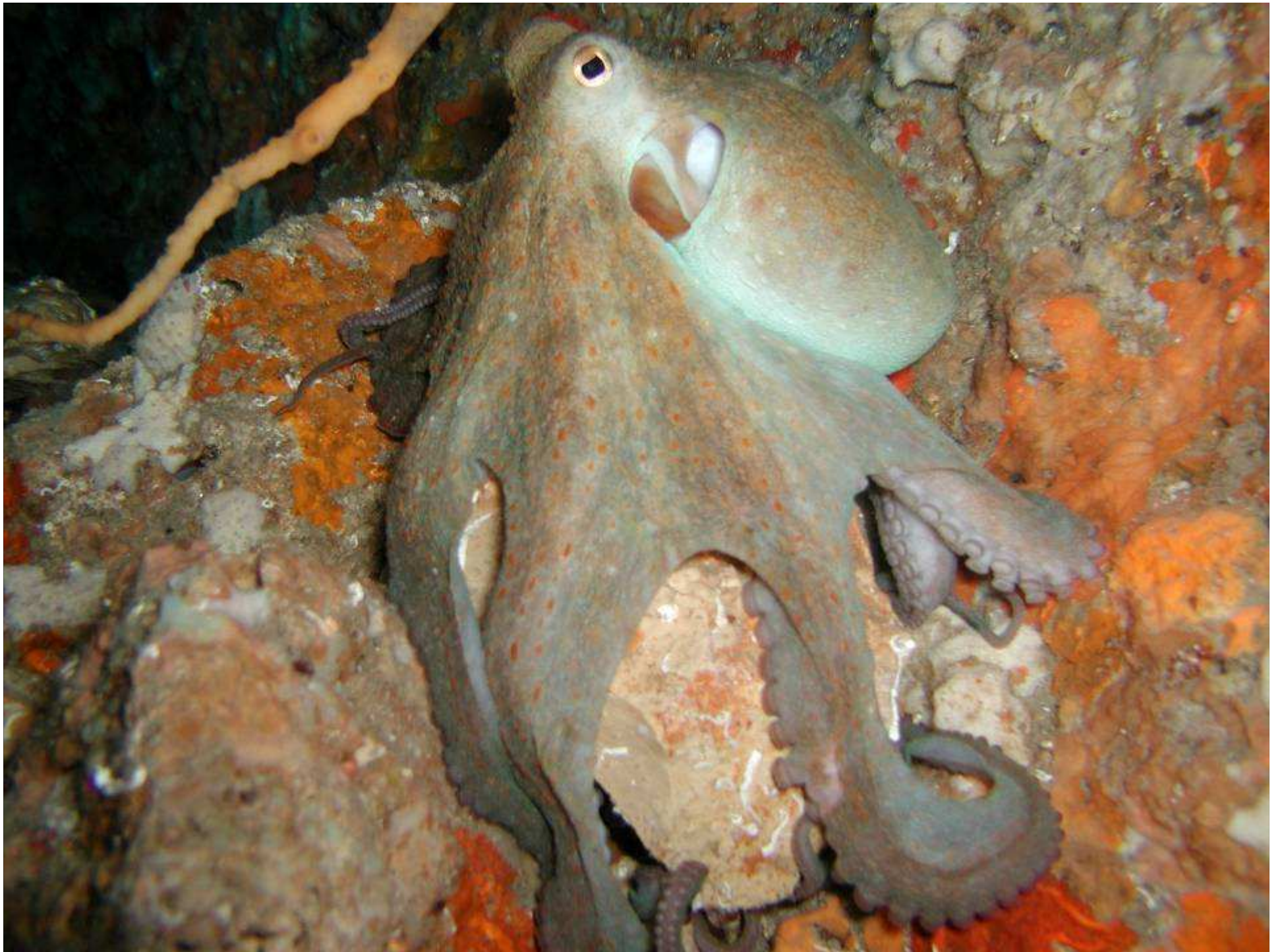


Mollusca: Cephalopoda - Octopida
Octopus vulgaris











Echinodermata: Crinoidea

Antedon mediterraneus



Echinodermata: Echinoidea – Irregularia

Echinocardium sp.





Echinodermata: Echinoida

Arbatia lixula





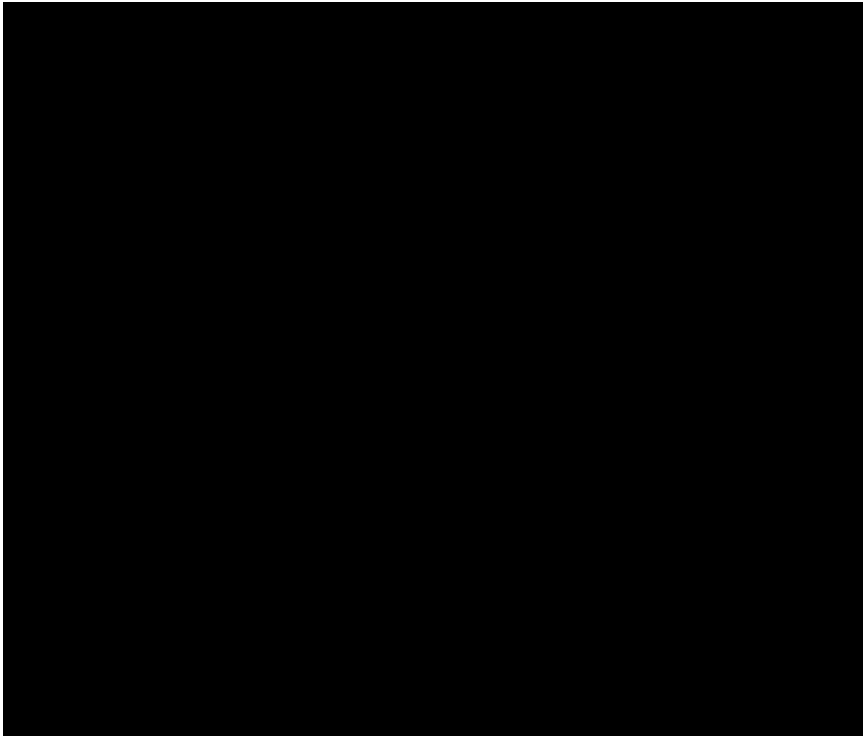
Echinodermata: Echinoida

Paracentrotus lividus

Echinodermata: Echinoida

Sphaerechinus granularis







Echinodermata: Holothuriodea

Holothuria tubulosa



Echinodermata: Holothuriodea

Holothuria tubulosa





Echinodermata: Holothuriodea

Holothuria sanctori



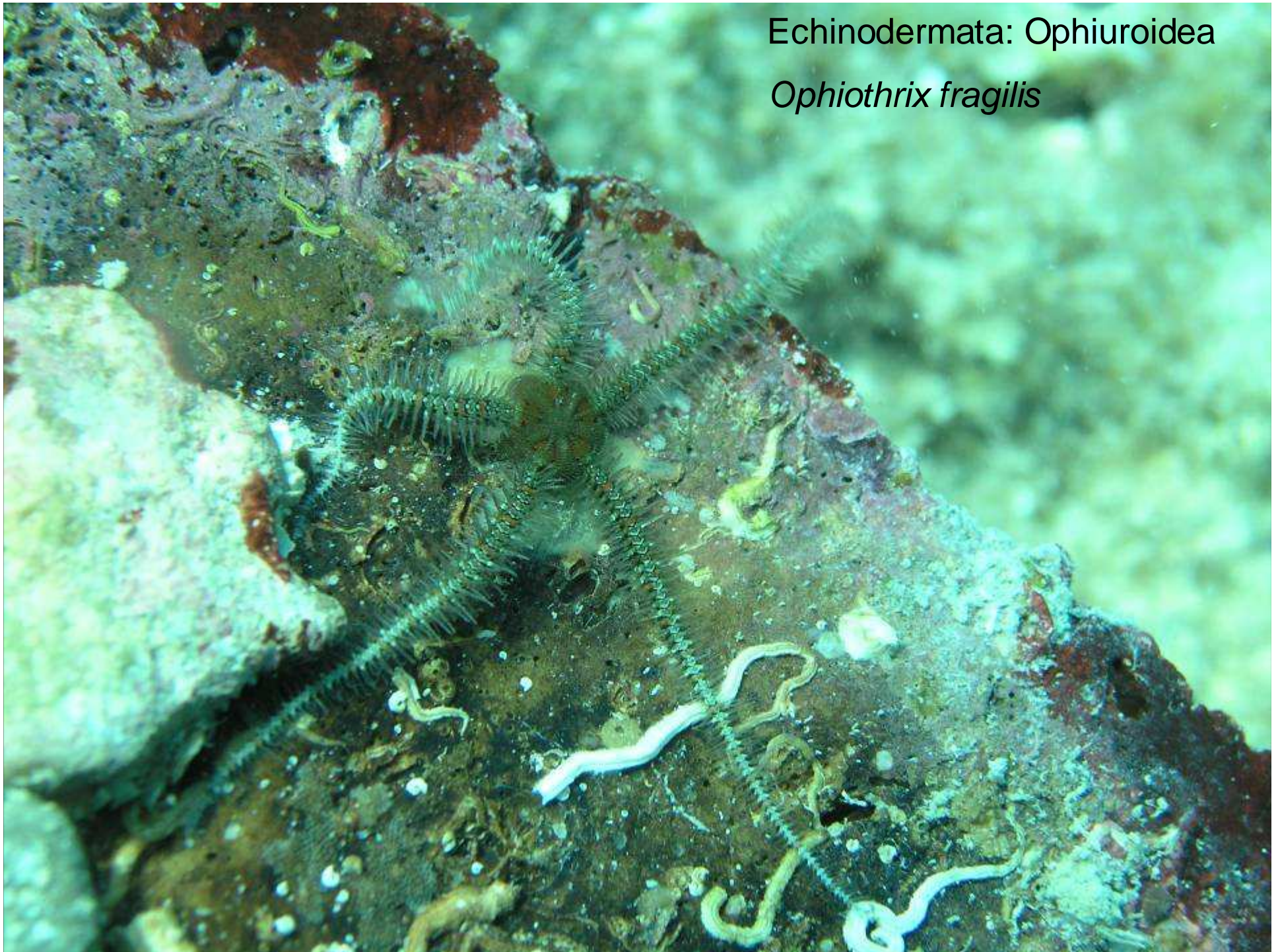


Echinodermata: Holothuriodea

Holothuria forscali

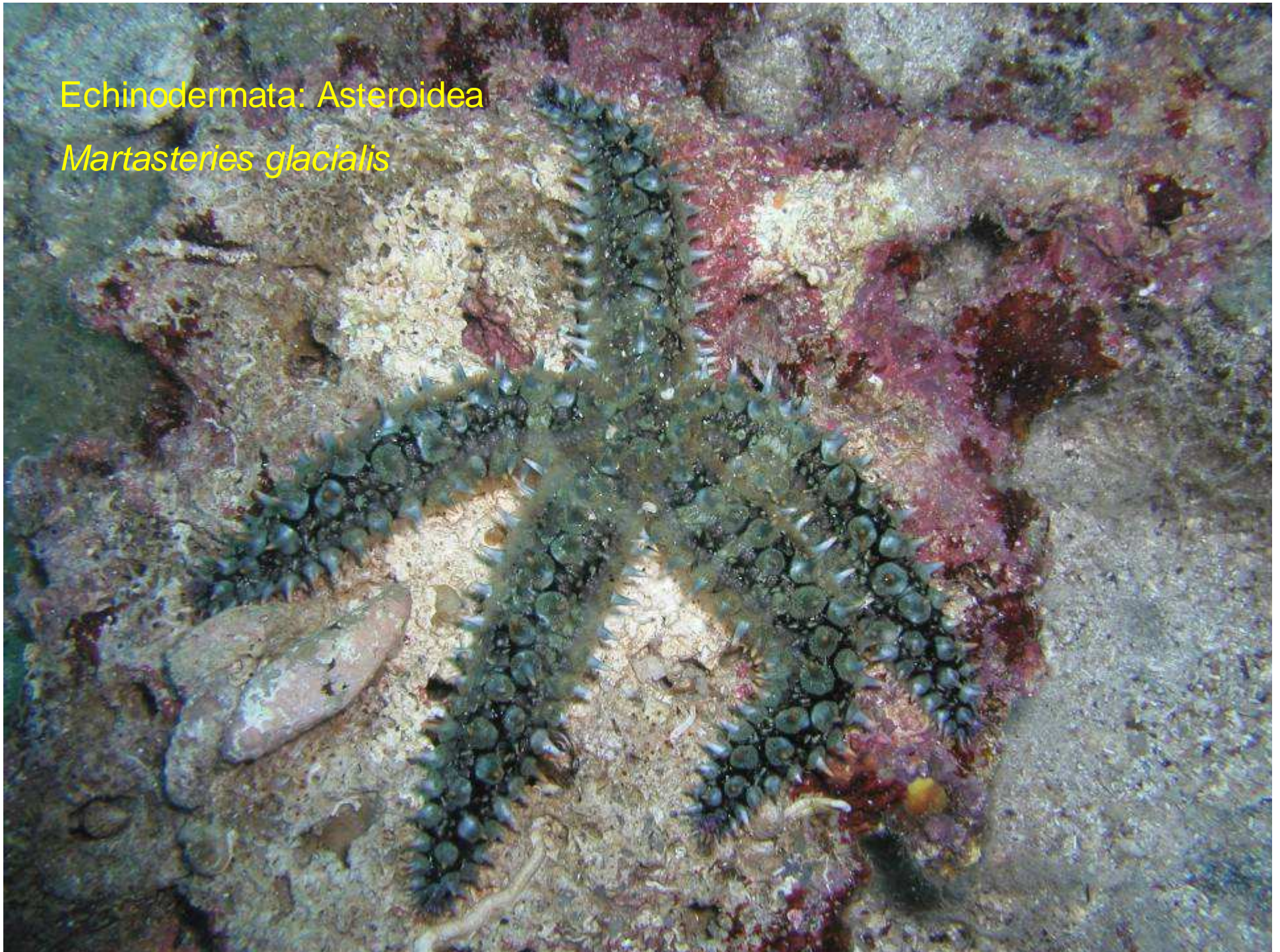
Echinodermata: Ophiuroidea

Ophiothrix fragilis



Echinodermata: Asterozoa

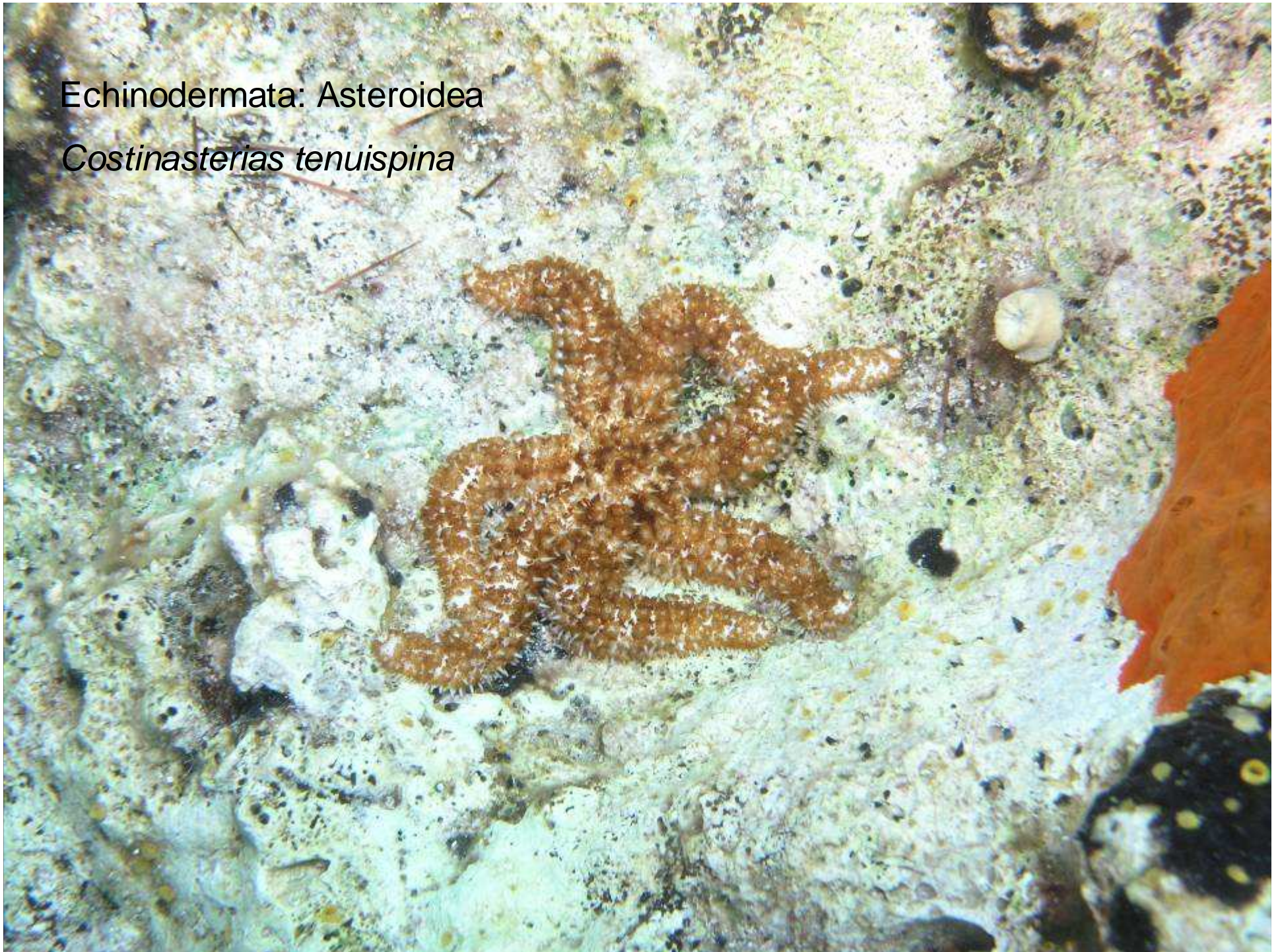
Martasterias glacialis





Echinodermata: Asteroidea

Costinasterias tenuispina

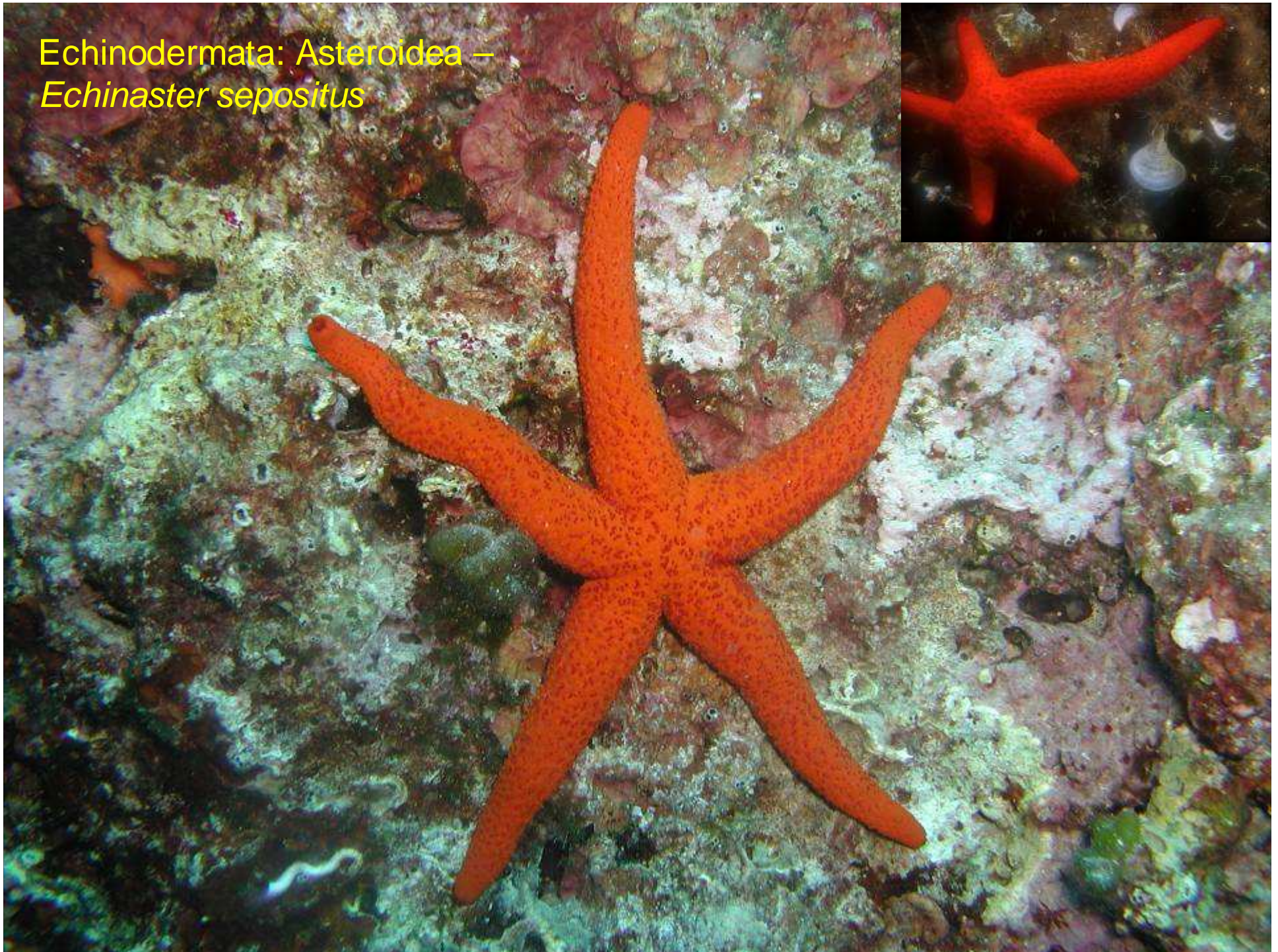


Echinodermata: Asteroidea –
Astropecten arantiacus





Echinodermata: Asteroidea –
Echinaster sepositus





Echinodermata: Asteroidea –
Hacelia attenuata



Echinodermata: Asteroidea

– *Asterina* sp.

Tunicata: Ascidiacea
Halocynthia papillosa



Tunicata: Ascidiacea

Ascidia mentula



Tunicata: Ascidiacea

Clavellina lepadiformis







Tunicata: Ascidiacea
Microcosmus sp.

Blennidae

Parablennius tentacularis





Scorpaenidae: *Scorpaena notata*

Chondrichthyes: *Scyliorhinus stellaris*



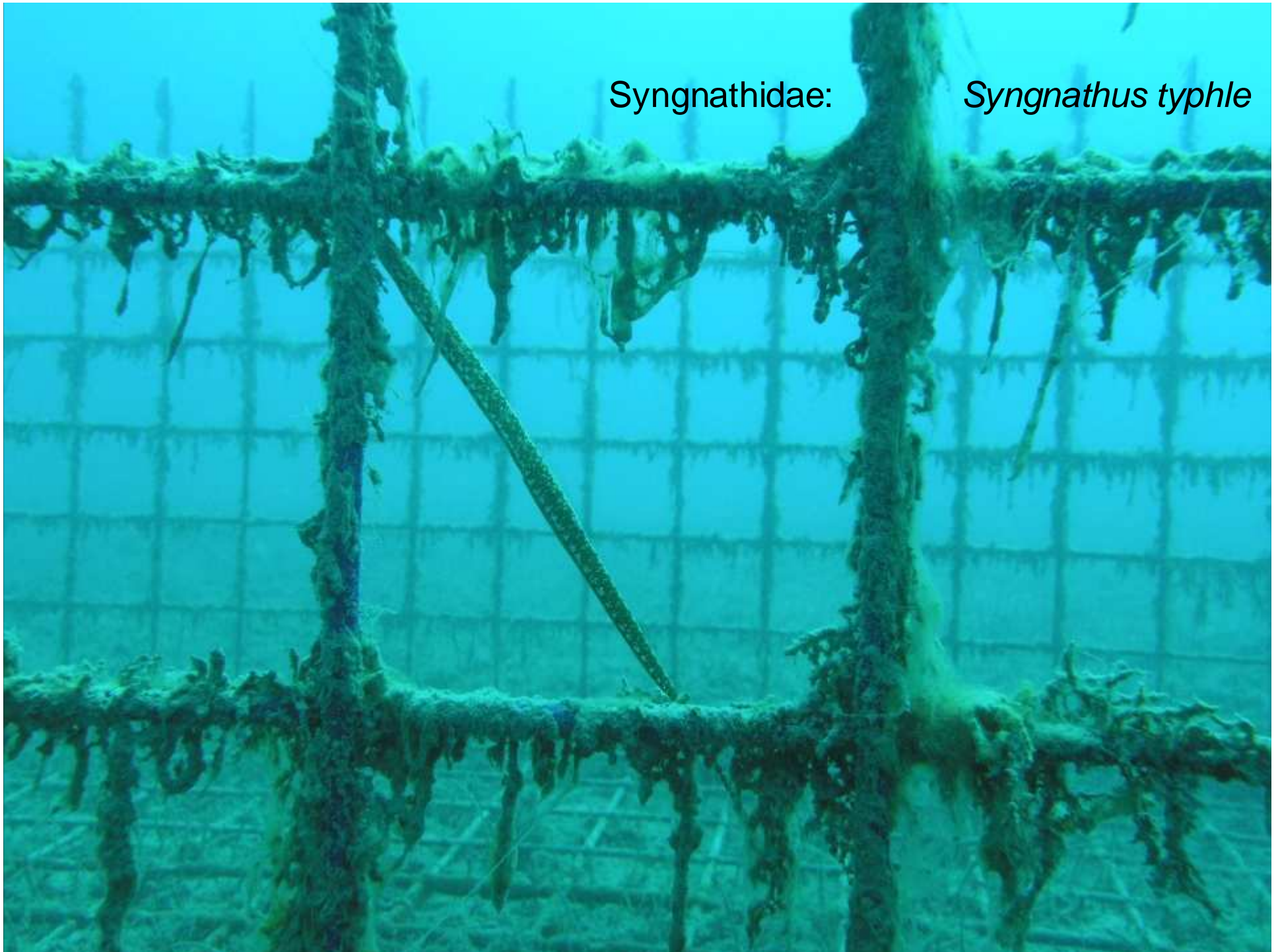
Syngnathidae: *Hippocampus ramulosus*

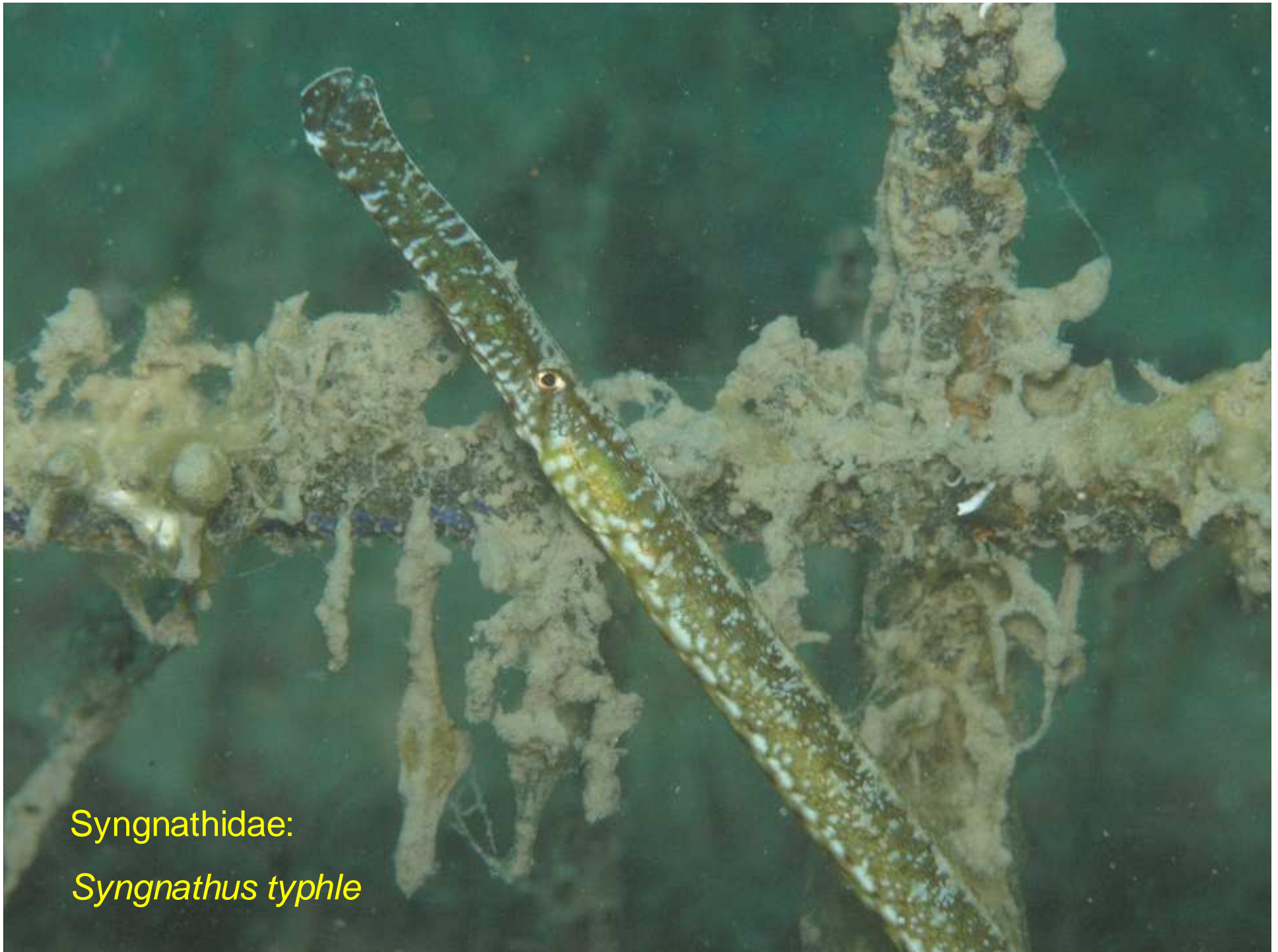
Syngnathidae: *Syngnathus acus*



Syngnathidae:

Syngnathus typhle





Syngnathidae:

Syngnathus typhle

Trypterygiidae:

Tripterygion delaisi





Trachinidae:

Trachinus draco

Triglidae: *Chelidonichthys lastovitza*



Zeidae: *Zeus faber*





An underwater photograph showing a large school of small fish swimming towards a bright, circular opening in a rocky reef structure. The water is clear and blue, and the rocks are covered in various marine life.

... příští exkurze na
Brač

srpen 2011