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## EUROMARINE SUMMER SCHOOL

“PulseOcean: Taking an interdisciplinary pulse on ocean under global change”

Ischia, Italy. September 2025



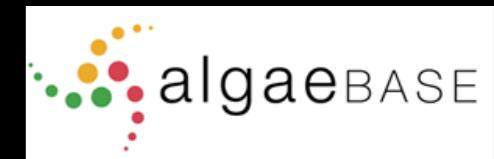


## Brown algae (Pheophyceae)

- Exclusively marine species (<1% in freshwater);
- Brown or olive-green color;
- From small filamentous to large complex forms;
- Often forming forests (e.g. *Cystoseira* and *Sargassum*);
- About 1500 species globally

# *Dictyota* sp.

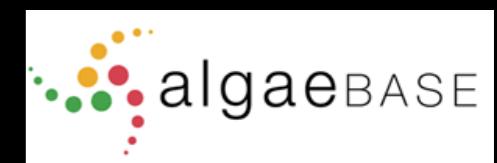
DORIS



Brown algae (Pheophyceae)

# *Padina pavonica*

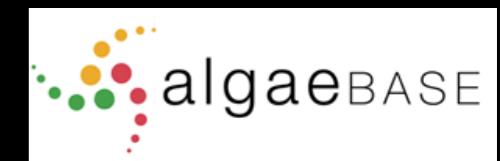
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Brown algae (Pheophyceae)

# *Halopteris* spp.

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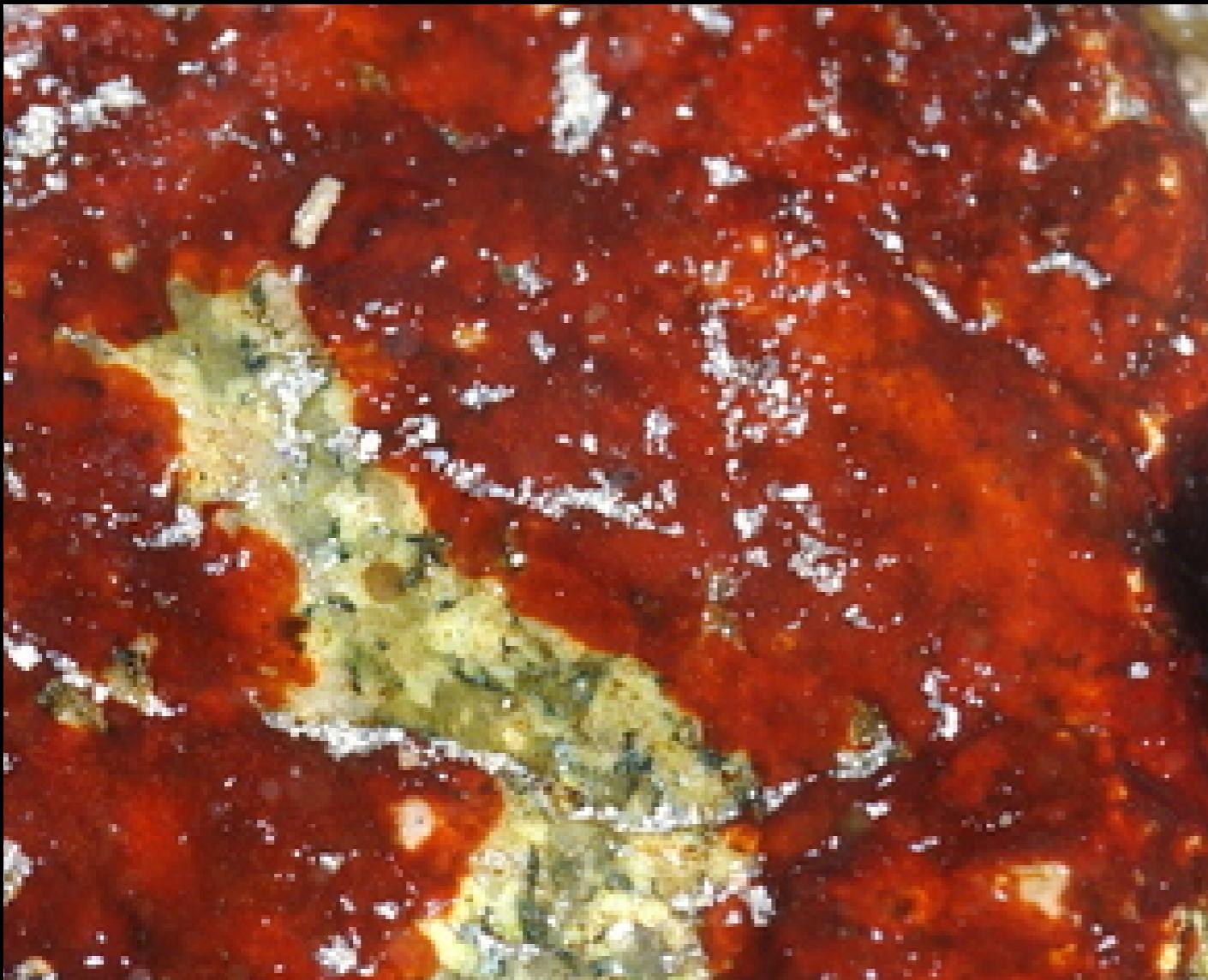
Brown algae (Pheophyceae)



## Red algae (Rhodophyceae)

- Mostly marine species (<5% freshwater);
- Shades of red and purple, soft pink;
- Unicellular to complex forms;
- About 7000 species globally

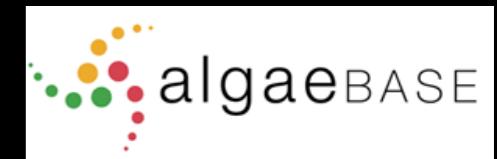
# *Hildenbrandia rubra*



Red algae (Rhodophyceae)

# *Amphiroa rigida*

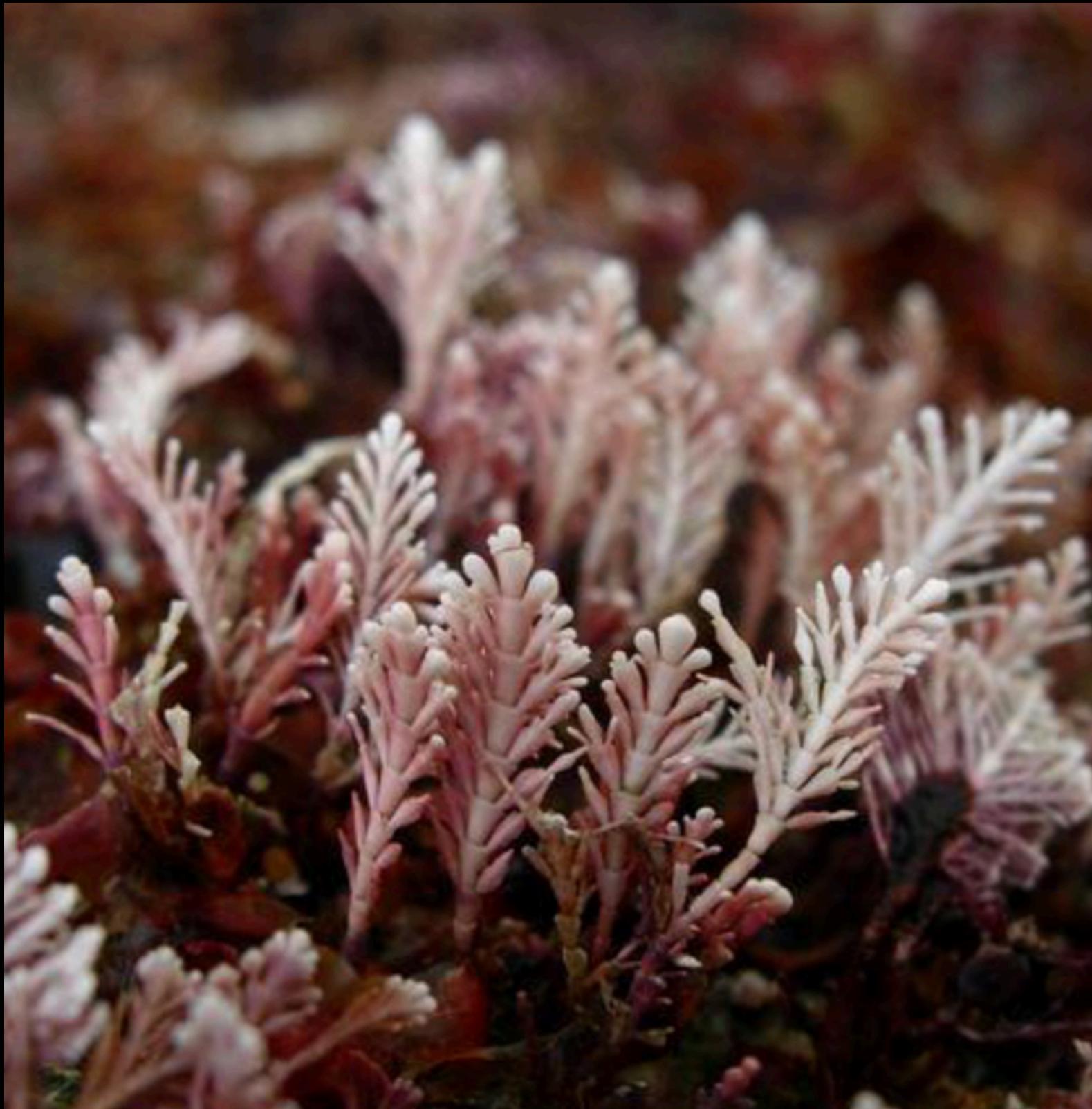
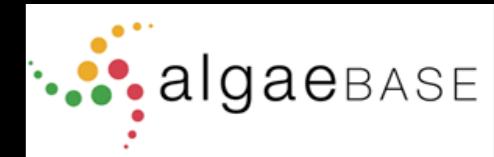
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Red algae (Rhodophyceae)

# *Ellisolandia elongata*

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Red algae (Rhodophyceae)

*Jania rubens*

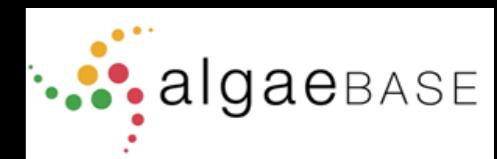
*Jania virgata*



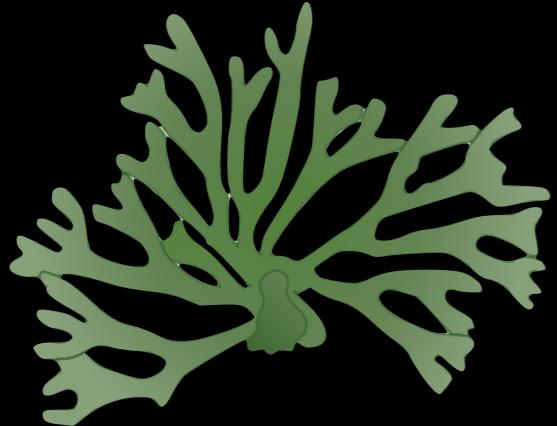
Red algae (Rhodophyceae)

# *Peyssonnelia* spp.

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Red algae (Rhodophyceae)

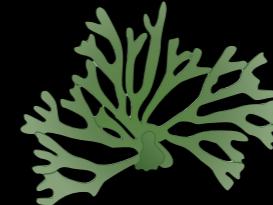
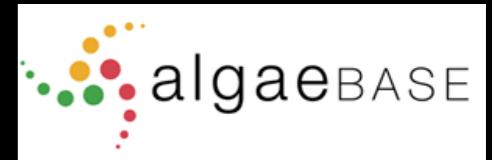


## Green algae (Chlorophyceae)

- Mostly freshwater species (10% marine);
- Green in color;
- Mostly unicellular (flagellated or not-flagellated cells), colonial or filamentous habit;
- About 17000 species globally (few marine genera)

# *Caulerpa prolifera*

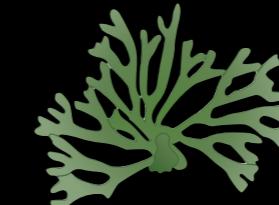
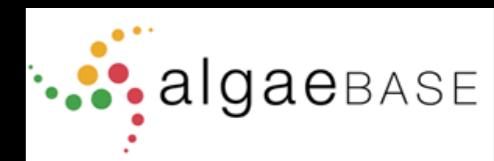
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Green algae (Chlorophyceae)

# *Flabellia petiolata*

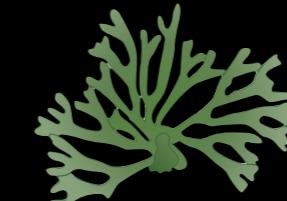
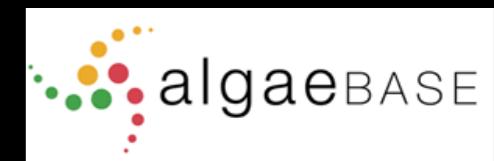
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Green algae (Chlorophyceae)

# *Anadyomene stellata*

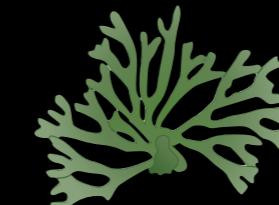
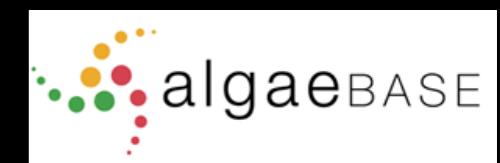
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Green algae (Chlorophyceae)

# *Bryopsis* sp.

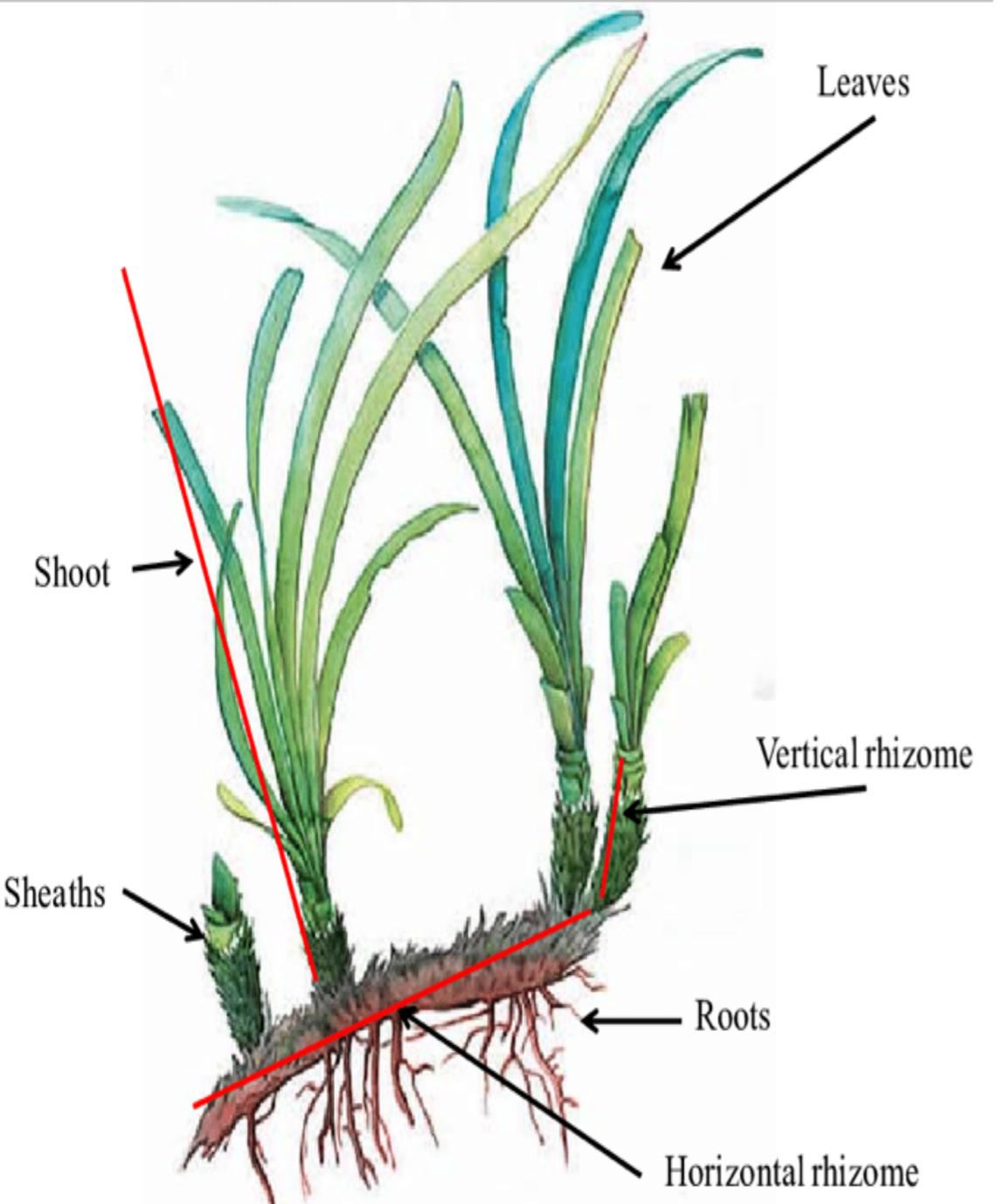
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Green algae (Chlorophyceae)

# PLANTS

## *Posidonia oceanica*

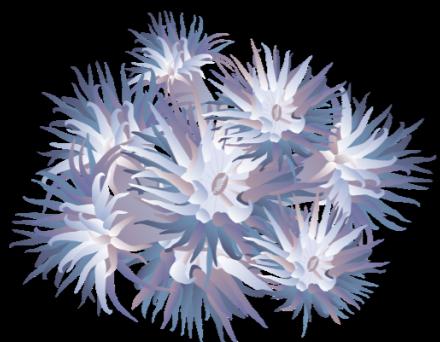




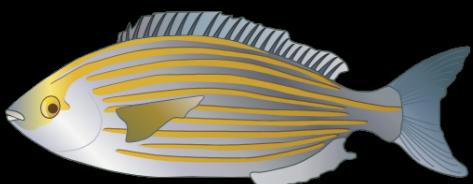
Sponges



Crustaceans



Cnidarians



Fishes

# *Crambe crambe*

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WoRMS  
World Register of Marine Species



Corneo-siliceous sponges  
(Demosponges)

# *Sarcotragus* spp.



Corneo-siliceous sponges  
(Demosponges)

# *Perforatus perforatus*



Cirripede  
crustaceans

# *Cladocora caespitosa*



Stony coral

# *Sarpa salpa*



Photo: Alice Mirasole

# *Oblada melanura*

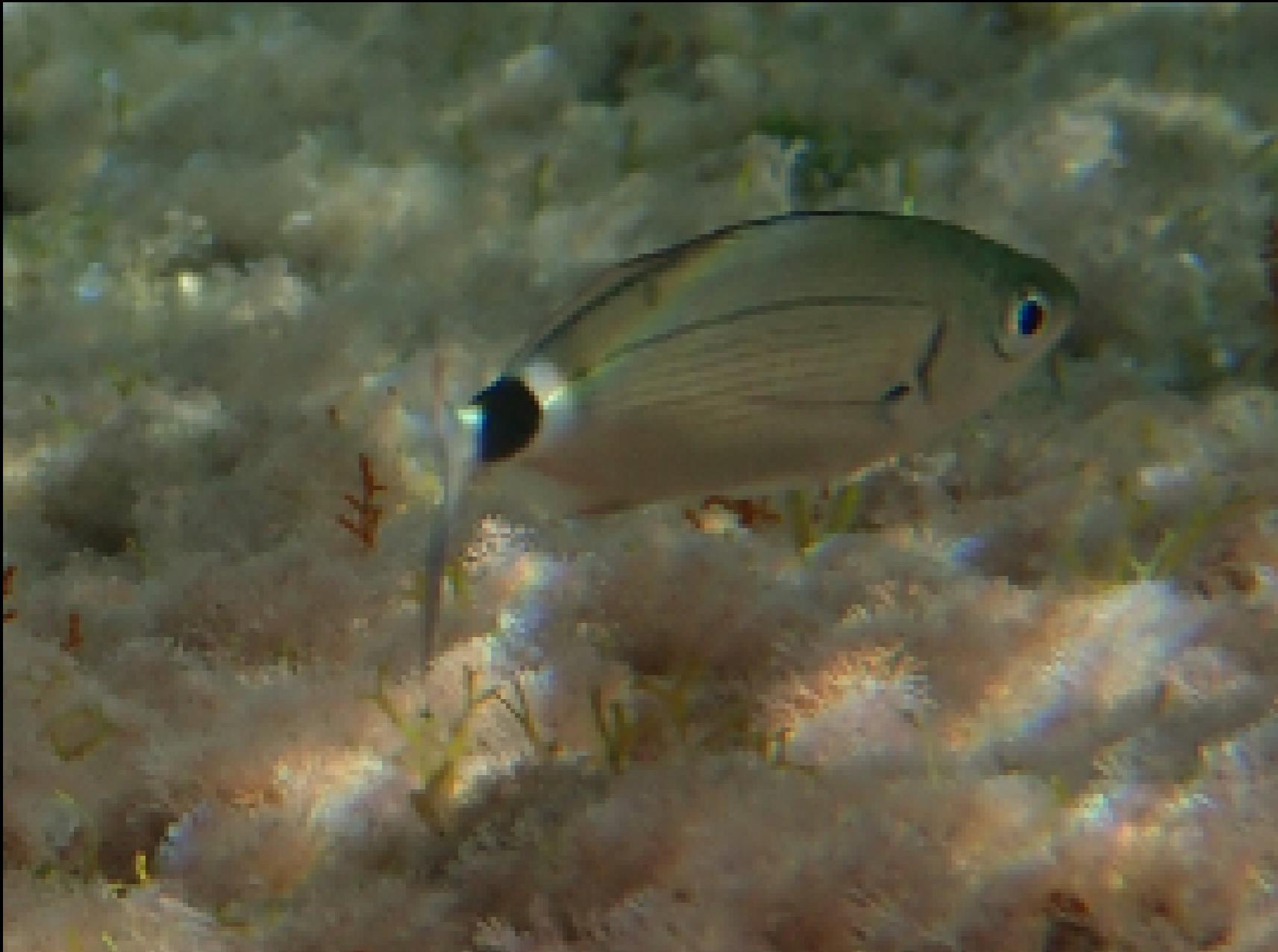


Photo: Alice Mirasole

# *Coris julis*



Photo: Alice Mirasole

# *Serranus scriba*



Photo: Alice Mirasole

# *Thalassoma pavo*



Photo: Alice Mirasole

# *Chromis chromis*



Photo: Alice Mirasole

# *Diplodus annularis*



Photo: Alice Mirasole



# *Diplodus vulgaris*



Photo: Alice Mirasole