

# Kelp Ecosystem Ecology Network (KEEN)

## - Gulf of Maine Species Guide -

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## Table of Contents

- Part 1: Green and Brown Algae
- Part 2: Red Algae and Marine Plants
- Part 3: Cnidarians and Bryozoans
- Part 4 : Molluscs, Echinoderms, Arthropods
- Part 5: Sponges and Tunicates
- Part 6: Fish and Annelids
- Part 7: Photo Sources

## Sample ID

### Genus species (CODE)

#### Common name

- Defining feature
- Survey method documented in



## Chlorophyta – Green Algae

### Codium fragile (COF)

Green Fleece

- fingers
- UPC



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### Filamentous Green (FG)

- Wiry/hairy/tufted, no vesicles
- UPC



## Green Algae

### Blady Ulvoid (UV)

#### Sea Lettuce

- lettuce
- UPC



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### Tubular Ulvoid (TUV)

#### Sea Lettuce

- lettuce
- UPC



## Phaeophyta – Brown Algae

### ***Agarum clathratum* (AGCL)**

#### **Shotgun Kelp**

- Many regular holes
- <5cm = Juvenile (**AGJ**)
- Quads, UPC, Kelp



### ***Alaria esculenta* (ALES)**

#### **Winged Kelp**

- Distinctive midrib
- <10cm = Juvenile (**ALJ**)
- Quads, UPC, Kelp



### ***Arthrocladia villosa* (ARVI)**

- Hairs, branching, tubular
- UPC



## Green Algae

### ***Ascophyllum nodosum* (ASDI)**

#### **Knotted Wrack**

- Narrow, ribless blades with bladders
- UPC



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### **UNID Juv Laminariales Blade (BLD)**

- <10cm kelps
- Quads



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### **Chorda filum (CHFI)**

#### **Chord weed**

- Long smooth rope, not fuzzy
- Quad, UPC, Swath



## **Colpomenia peregrina (COPE)**

### **Sea Potato**

- Potato-like sacs
- Quads, UPC



## **Desmerestia aculeata (DEAC)**

### **Sour Weed**

- Coarse, alternate branches
- Quads, UPC



## Green Algae

### **Desmerestia viridis (DEVI)**

#### **Stink Weed**

- Fine, opposite branches
- Quads, UPC



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### **Diatom Tube Mat (DIAT)**

- UPC
-

## **Halosiphon tomentosus (HATO)**

### **Hairy Shoelace**

- Long and fuzzy rope
- Quads, UPC, Swath



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## **Fucus distichus (FUDI)**

### **Sea Wrack**

- No bladders
- UPC



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## **Laminaria digitata (LADI)**

### **Fingered Kelp**

- Hand-like
- <10cm = Juvenile (LDJ)
- Quads, UPC, Kelp



## ***Leathesia marina* (LEMA)**

### **Sea Cauliflower**

- Stiff, brain like
- UPC



## ***Saccorhiza dermatodea* (SADE)**

### **Oar Weed**

- Oar-like, flat and scuzzy
- <10cm = Juvenile (**SDEJ**)
- Quads, UPC



## ***Saccharina sp.* (SL)**

### **Sugar Kelp/Sea Belt**

- (*latissima* and *longicuris*)
- Lasagna-like blade
- <10cm = Juvenile (**SLJ**)
- Quads, UPC



# Rhodophyta – Red Algae

## *Ahnfeltia plicata* (AHPL)

**Landlady's Wig**

- Irregular branching
- UPC



## *Bonnemaisonia hamifera* (BOHA)

**Hooked Weed**

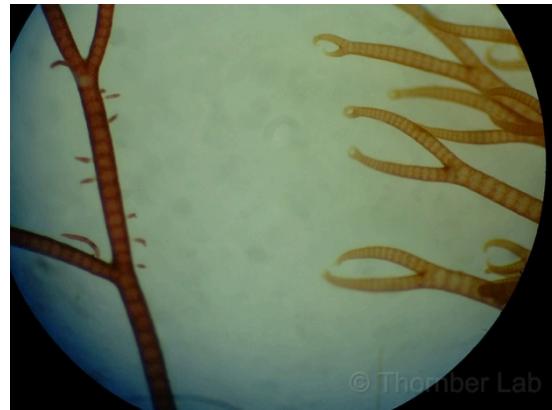
- hooks
- UPC



## *Ceramium sp.* (CRSP)

**Banded Weed**

- Pincers, corticated
- UPC



## ***Chondrus crispus* (CHCR)**

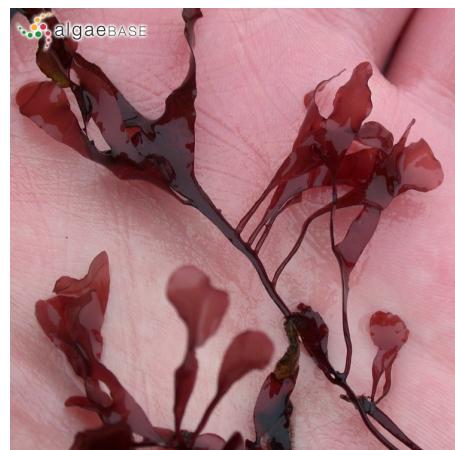


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### **Irish Moss**

- Flat blade, fan like branching
- UPC

## ***Coccotylus truncatus* (COTR)**



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### **Irish Moss**

- thin, cylindrical then flat, wide blade
- UPC

## ***Cystoclonium purpureum* (CYPU)**

### **Purple Claw Weed**

- Bristly, cylindrical fronds
- UPC



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## **Dumontia contorta (DUCO)**

**Tubular Weed**

- Flat cylinders
- UPC



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## **Euthora cristata (EUCR)**

**Delicate Northern Sea Fan**

- Flat branching blades, lacy
- UPC



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## **Heterosiphonia japonica (HJ)**

**Japanese Red Algae**

- Bushy, feathery
- UPC



## **Mastocarpus stellatus (MAST)**

**False Irish Moss**

- Pappilate, channeled fronds
- UPC



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## **Palmaria palmata (PAPA)**

**Dulce**

- fingers
- UPC



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## **Phycodrys rubens (PHRU)**

**Sea Oak**

- Oak-like leaf, midrib
- UPC



## **Polysiphonia spp. (POLS)**

### **Lobster Horns**

- Fine branched filaments
- UPC



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## **Polyides rotundus (PORO)**

### **Goat Tang**

- Cylindrical fronds, pointed apices
- UPC



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## **Porphyra spp. (PORS)**

- Red ulva, thin
- UPC



## **Ptilota serrata (PTSE)**

**Northern Sea fern**

- Branches with branchlets
- Cryptic Fish



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## **Red Algal Turf (RAT)**

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- Thin UNID mat many spp.
- UPC

## **Spermothamnion repens (SPRE)**

- Bushy red tufts
- UPC



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## **Corallina officinalis (CO)**

**Coral Weed**

- Feathers, hard
- UPC



## **Unid Red Blade (URB)**

- UPC
- 

## **Unid Filamentous Red (UFR)**

- UPC
-

# Coralline Red Aglae

## *Hildenbrandia rubra* (HIRU)

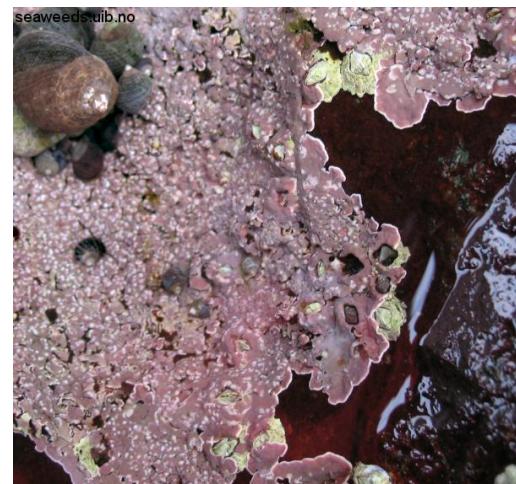
- Non calcified crust
- UPC



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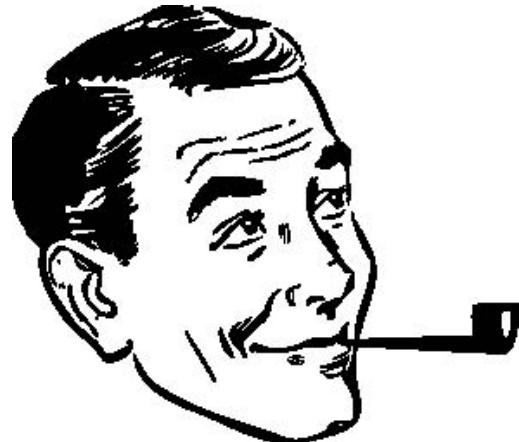
## *Clathromorphum circumscriptum* (CLCI)

- Smooth and thick
- UPC



## **Lithophyllum spp. (LESP)**

- Smooth, chalky
- UPC



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## **Leptophyllum spp. (LESP)**

- Thin, no band
- UPC

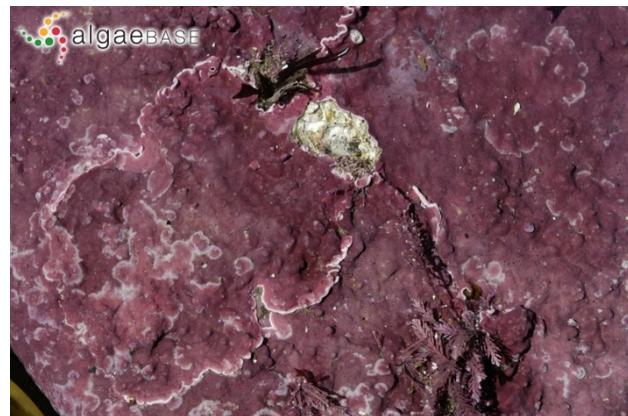


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## **Phymatolithon spp. (PHSP)**

### **Rock Branch Algae**

- Thin, white band
- UPC



## **Lithothamnion glaciale (LIGL)**

- Bumpy, pink
- UPC



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## **Titanoderma spp. (TISP)**

- Epiphytic
- UPC



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## **Unid Encrusting Coralline (EC)**

- UPC

# Tracheophyta – Marine Plants

## Zostera (ZOMA)

### Marine Eelgrass

- Long, ribbon leaves
- UPC



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# Bryozoans

## **Bugula sp. (BUSP)**

- UPC
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## **Bugula fulva (BUFU)**

- Bushy, non spiraling tufts
- UPC



## **Bugula turrita (BUTU)**

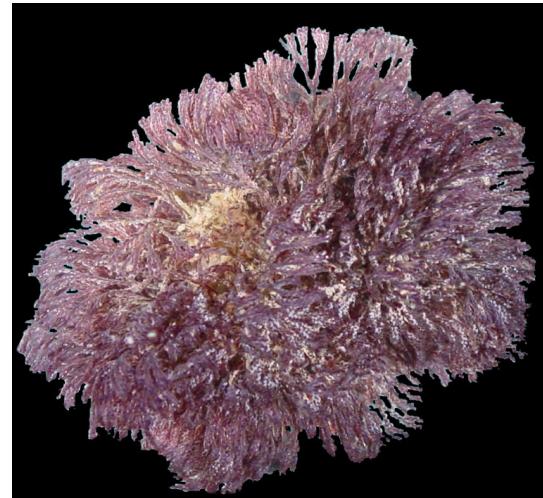
### Spiral Tufted Bryozoan

- X mas tree
- UPC



## **Bugula neritina (BUNE)**

- purple
- UPC



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## **Crisia eburnea (CREB)**

### **Tufted Ivory Corraline**

- Fragile white tufts
- UPC



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## **Dendrobeania murrayana (DEMU)**

- Leafy, straw-colored, ribbon shaped
- UPC



## **Electra pilosa (ELPI)**

### **Hairy Sea Mat**

- White star patches, hairy
- Quad



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## **Lichenopora verrucaria (LIVE)**

- Thick in middle, white
- UPC

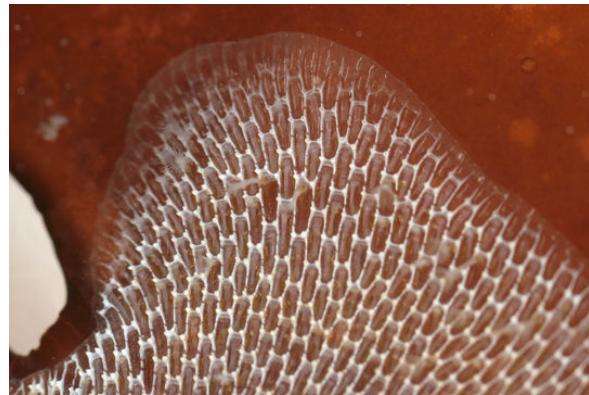


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## **Mambranipora membranacea (MEMA)**

**Sea Lace**

- Lacy epizootic
- UPC



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## **Schizoporella unicornis (SCUN)**

**Single Horn Bryozoan**

- Bumpy, orange and white,  
round zooids



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## **Schizomavella auriculata (SCAU)**

- Bumpy, solid orange, round  
zooids
- UPC



## **Tincellaria inopinata (TRIN)**

- Crunchy arborescent
- UPC



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## **Unid Arborescent Bryozoans (UAB)**

- UPC
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# Cnidarians

## → Medusozoa

### ***Abietinaria abietina* (ABAB)**

#### **Sea fir**

- Corticated, unbranched main stem, coarse
- UPC



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### ***Ectopleura* sp. (ECSP)**

#### **Pink hearted hydroid**

- Grey to pink, bushy growths
- UPC



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### ***Obelia* spp. (OBSP)**

- delicate
- UPC



## **Sertularia sp. (SESP)**

**Sea Fir**

- Bushy corticated
- UPC



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## **Haliclystus spp. (HASP)**

**Stalked Jellyfish**

- Upside-down, attached jelly
- UPC



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## **Unid Hydroid spp.**

- UPC



# Cnidarians

→ Anthozoa

## *Alcyonium digitatum* (ALDI)

### Dead man's fingers

- White fingers, irregular masses
- Swath



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## *Astrangia danae* (ASDA)

### Star Coral

- Off white to pink, hard
- Swath



## **Cerianthus borealis (CEBO)**

### **Northern cerianthid**

- Two tentacle whorls, in sand
- UPC, Swath



*Photo: Strong/Buzeta*

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## **Fagesia lineata (FALI)**

### **Tiny White Anemone**

- Small, white
- UPC



## **Gersemia rubiformis (GERU)**

### **Sea Strawberry**

- Knobby clumps
- Swath



*Sanamyan.com*

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## **Metridium senile (MESE)**

### **Clonal Plumose Anemone**

- White frilled
- Quads, UPC



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## **Uticina feline (URFE)**

### **Northern Red Anemone**

- Reddish bands vertically
- Quads, UPC



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## **Diadumene lineata (DILI)**

### **Orange striped green anemone**

- Orange striped
- Quad, UPC



## **Unid anemone (UNAN)**

- UPC
-

# Arthropods

## Cancer borealis (CABO)

### Jonah Crab

- Rounded bumpy shell
- <5cm = Juvenile (**CABS**)
- Quads, Swath



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## Cancer irroratus (CAIR)

### Atlantic Rock Crab

- Pointed shell
- <5cm = Juvenile (**CAIS**)
- Quads, Swath



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## Carcinus maenas (CAMA)

### Green crab

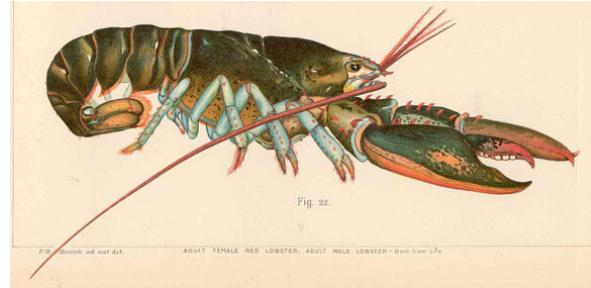
- Dark and mottled shell
- <5cm = Juvenile (**CAMS**)
- Quads, Swath



## **Homarus americanus (HOAM)**

### **American lobster**

- “lobster”
- <10cm = Juvenile (**HOAS**)
- Quads, Swath



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## **Libinia emarginata (LIEM)**

### **Portly Spider Crab**

- Oval carapace, 9 spines down midrib
- <5cm = Juvenile (**LIES**)
- Quads, Swath



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## **Barnacle spp. (BA)**

- Rough, ribbed
- UPC



## **Amphipod Tube Mat (ATM)**

- UPC



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## **Callinectes sapidus (CASA)**

### **Blue Crab**

- Big blue swimmerettes
- <5cm = Juvenile (**CASS**)
- Quads



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## **Hyas coarctatus (HYCO)**

### **Arctic Lyre or Toad Crab**

- Dirty, violin carapace
- <5cm = Juvenile (**HYCS**)
- Quads, Swath



Sarah Minks Hardy/UAF

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## **Ovalipes ocellatus (OVOC)**

### **Ladycrab**

- Coral colored, small rings
- <5cm = Juvenile (**OVOS**)
- Quads



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## **Panopeus herbstii (PAHE)**

### Atlantic Mud Crab

- 5 teeth, 2 dull
- Quads

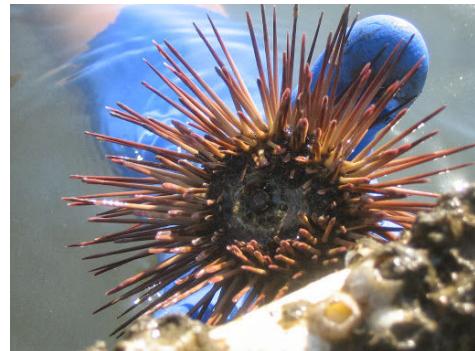


# Echinoderms

## *Arbacia punctulata* (ARPL)

### Purple Sea Urchin

- Long spines, purple
- <20cm = Juvenile (**ARPS**)
- Quads



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## *Asterias forbesii* (ASFO)

### Forbes Star

- Orange madroporite
- Quads, Swath



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## *Asterias rubens* (ASRU)

### Common Star

- Pale yellow to white, smaller madroporite
- Quads, Swath



## **Crossaster papposus (CRPA)**

### **Spiny Sun Star**

- 10-12 arms, large central disc
- Quads, Swath

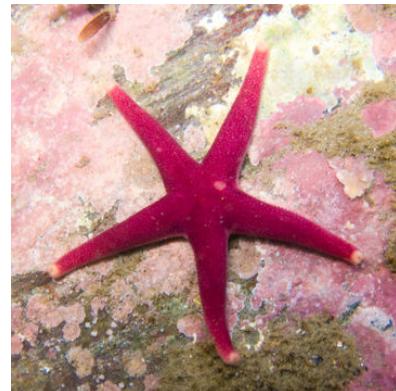


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## **Henricia sanguinolenta (HESA)**

### **Blood Star**

- Small, fine granular covering
- Quads, Swath



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## **Solaster endeca (SOEN)**

### **Smooth Sun Star**

- 9-10 arms, short spines
- Quads, Swath



## **Strongylocentrotus droebachiensis (SDS)**

### **Green Sea Urchin**

- Green/brown
- <20mm = Juvenile (**SDL**)
- Quads



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## **Cucumaria frondosa (CUFR)**

### **Orange Footed Cucumber**

- Brown, bumpy
- Quads, Swath



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## **Echinorachnius parma (ECPA)**

### **Common sand dollar**

- flat
- Quads



## **Ophiopholis aculeata (OPAC)**

### **Brittlestar**

- Scallop disc, small long spines
- Quads



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## **Psolus fabricii (PSFA)**

### **Scarlet cucumber**

- Oval, scarlet, 10 tentacles
- Quads



© Claude Nozères

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# Molluscs

## Anomia sp. (ANSP)

### Jingle Shell

- Bumpy, crepidula-like
- UPC



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## Crepidula fornicata (CF)

### Slipper Snail

- Whitish, brown markings
- UPC



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## **Ischnochiton albus (ISAL)**

### **White Chiton**

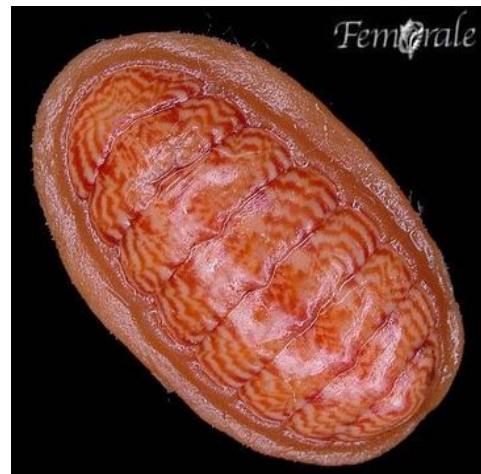
- Elongate oval, whitish
- UPC



## **Ischnochiton ruber (ISRU)**

### **Red Chiton**

- White/brown marks, reddish
- UPC



## **Modiolus modiolus (MOMO)**

### **Northern Horse Mussel**

- Large, has holes



## **Mytilus edulis (MYED)**

### **Blue Mussel**

- Elongated, Narrow end
- UPC



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## **Tectura testudinalis (TETE)**

### **Plate Limpet**

- Can have checkered, radiating lines
- UPC



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## **Serpulorbis (SE)**

- UPC



## **Octopus spp.**

- Swath

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## **Lunatia heros (LUHE)**

### **Moon Snail**

- Grey to tan, opening umbilicus
- Swath



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## **Buccinum undatum (BUUN)**

### **Wavy Whelk**

- Stout, yellow/brown shell
- Quads, Swath



## **Busycon canaliculatum (BUCA)**

### **Channeled Whelk**

- Pear shaped, brown/red vertical bands
- Quads, Swath



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## **Busycon carica (BUCR)**

### **Knobbed Whelk**

- Knobbed, grey/white to tan
- Quads, Swath



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## **Neptunea decemcostata (NEDE)**

### **10-ring Whelk**

- Horizontal orange-red band
- Quads, Swath



## **Calliostoma occidentale (CAOC)**

### **Stripped Whelk**

- Straight
- Quads



© Kwansei Shell Database

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## **Crassostrea virginica (CRVI)**

### **Eastern Oyster**

- Mild curve, massive
- Quad



4 cm

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## **Ostrea edulis (OSED)**

### **European flat oyster**

- Flat, oval, concentric bands
- Quads



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## **Placopecten magellanicus (PLMA)**

### **Atlantic Sea Scallop**

- Thread-like ridges,  
minimally convex
- Quads



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# Porifera

## Encrusting sponge (ES)

- UPC
- 

## *Cliona* sp. (CLSP)

- Large osculum
- UPC



## *Haliclona oculata* (HAOC)

### Finger Sponge

- Few fingers
- UPC



## **Halichondria panicea (HAPA)**

**Breadcrumb sponge**

- crumbs
- UPC



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## **Hymedesmia sp. (HYSP)**

- blue
- UPC



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## **Isodictya palmata (ISPA)**

**Palmate Sponge**

- Palmate
- UPC



## **Leucosolenia spp. (LEUC)**

- Many small vases
- UPC



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## **Microclona prolifera (MIPR)**

### **Red Beard Sponge**

- Red, finger/beard
- UPC



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## **Scypha sp. (SCSP)**

- Little vases
- UPC



# Chordates → Tunicates

## *Aplidium pallidum* (APPA)

- Brown staining around cloacal opening, drop of jelly
- UPC



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## *Ascidia callosa* (ASCA)

- UPC



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## *Ascidiella aspersa* (ASAS)

### Dirty Sea Squirt

- UPC



## **Boltenia echinata (BOEC)**

### **Cactus Sea Squirt**

- Globular, thick leathery test
- UPC



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## **Boltenia ovifera (BOOV)**

### **Stalked Sea Peach**

- Red-Orange, long stalk
- UPC



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## **Botryllus schlosseri (BOSC)**

### **Golden star tunicate**

- stars
- UPC



## **Botrylloides violaceus (BOVI)**

**Orange sheath tunicate**

- Orange, thin, fleshy
- UPC



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## **Ciona intestinalis (CIIN)**

**Sea Vase**

- Transparent, yellow or colorless siphon rim
- UPC



## **Ciona savingyi (CISA)**

### **Pac. Transparent Sea Squirt**

- Transparent, yellow speckled siphon rim
- UPC



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## **Dendrodoa carnea (DECA)**

### **Blood Drop Sea Squirt**

- Small pink
- UPC



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## **Didemnum albhidum (DIAL)**

### **Northern White Crust**

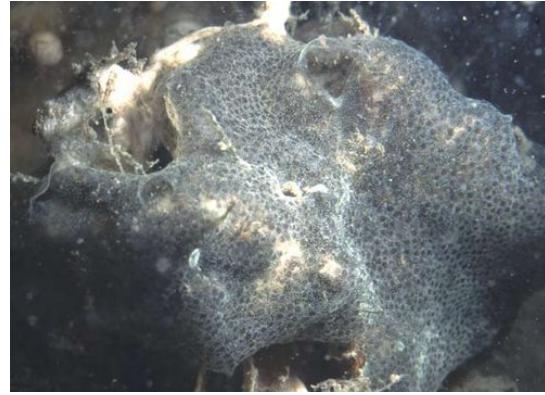
- Brittle, white
- UPC



## **Diplosoma listerianum (DIP)**

**Colonial tunicate**

- Transparent, gelatinous
- UPC



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## **Didemnum vexillum (DIVE)**

**tunicate**

- Yellow, spongy mat
- UPC



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## **Halocynthia pyriformis (HAPY)**

**Sea peach**

- Red-orange
- UPC



## **Molgula manhattensis (MOMA)**

**Sea grape**  
• UPC



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## **Molgula citrina (MOCI)**

**Sea grape**  
• UPC



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## **Styela clava (STCL)**

**Club Tunicate**  
• Warty, elongate, club shaped  
• Quads, UPC



## **Unid Compound tunicate (UT)**

- UPC
-

# Fish

## **Tautogolabrus adspersus (TAAD)**

### **Cunner**

- Smaller, compressed wrasse-like
- Fish



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## **Tautoga onitis (TAON)**

### **Tautog or Blackfish**

- Larger, darker, mottled skin
- Fish



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## **Centropristes striata (CEST)**

### **Black Sea Bass**

- Large mouth, 1 long dorsal fin
- Fish



## **Morone saxatalis (MOSA)**

### **Striped Bass**

- Larger silvery & Striped body
- Fish



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## **Pollachius virens (POVI)**

### **Pollack**

- Greenish, or coppery smooth, schooling
- Fish

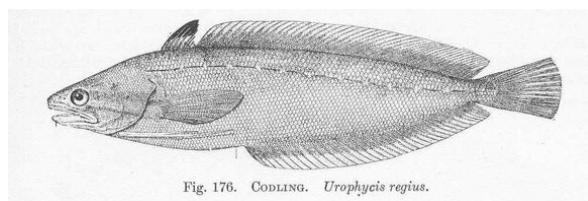


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## **Urophycis regia (URRE)**

### **Spotted Hake**

- Feelers & white spots down back
- Fish



## **Paralichthys denatus (PADE)**

### **Summer Flounder**

- LEFT-eyed
- Fish

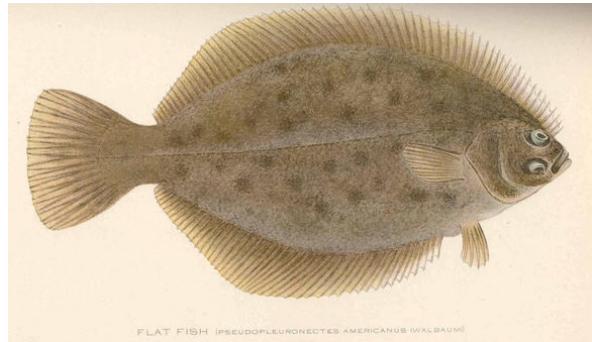


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## **Pseudopleuronectes americanus (PSAM)**

### **Winter flounder**

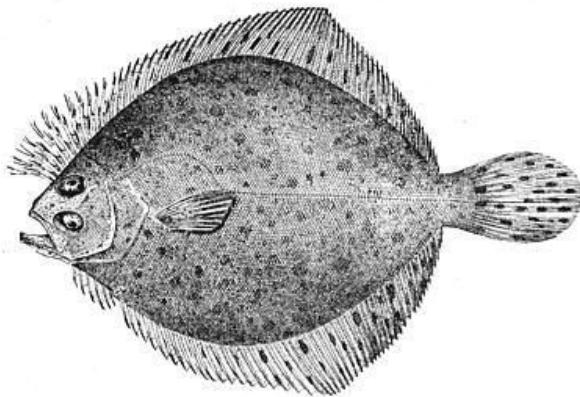
- RIGHT-eyed
- Fish



**Scophthalmus aquosus  
(SCAQ)**

**Windowpane Flounder**

- Left-eye, round
- Fish

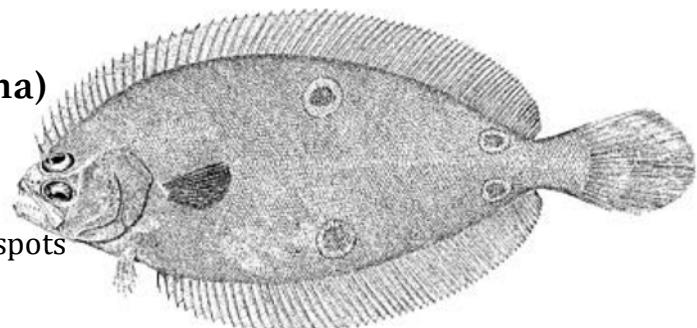


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**Paralichthys (Hippoglossina)  
oblongus (PAOB)**

**Fourpot Flounder**

- Left-eye, four distinct eyespots
- Fish



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**Limanda ferruginea (LIFE)**

**Yellow Tailed Flounder**

- Fish



## **Leucoraja erinacea (LEER)**

### **Little Skate**

- Heart-shaped body, long tail
- Fish



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## **Leucoraja ocellata (LEOC)**

### **Winter Skate**

- Round disc, dark spots
- Fish



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## **Anarhichas lupus (ANLU)**

### **Wolfish**

- Large, blenny-like
- Fish



## **Gadus morhua (GAMO)**

### **Cod**

- White lateral line, barbel
- Fish



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## **Prionotus carolinus (PRCA)**

### **Northern Sea Robin**

- Large pectoral fins, three free rays
- Fish



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## **Sebastes fasciatus (SEFA)**

### **Acadian Redfish**

- Fish



## **Syngnathus fucus (SYFU)**

**Northern Pipefish**

- Fish

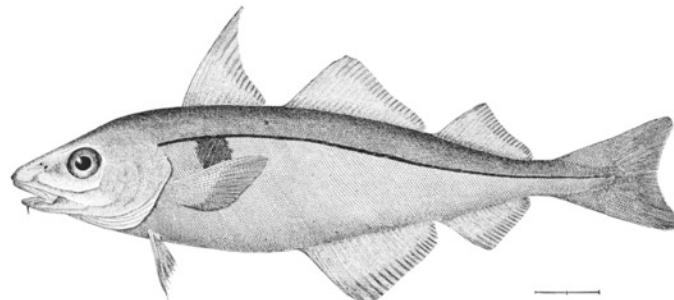


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## **Melanogrammus aeglefinus (MEAE)**

**Haddock**

- Black lateral line, small barbel
- Fish

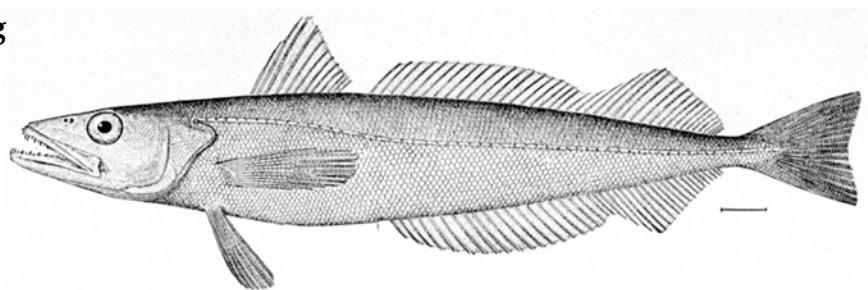


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## **Merluccius bilinearis (MEBI)**

**Silver Hake/Whiting**

- Large head
- Fish



## **Zoarces americanus (ZOAM)**

**Ocean Pout/Congo Eel**

- Pouty lip
- Fish



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## **Stenotomus chrysops (STCH)**

**Scup/Porgy**

- Eyes high on head, small mouth
- Fish



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## **Anguilla rostrata (ANRO)**

**American eel**

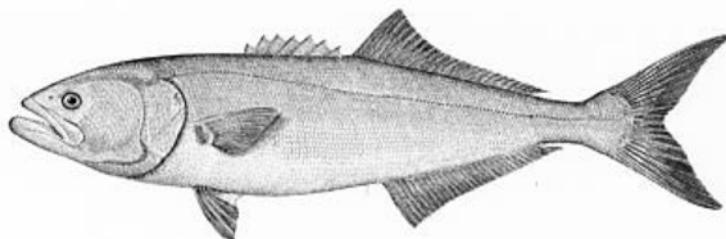
- Fish



## **Pomatomus saltatrix (POSA)**

### **Bluefish**

- Fish



---

## **Sphoeroides maculatus (SPMA)**

### **Northern Puffer**

- Fish



---

## **Squalus acanthias (SQAC)**

### **Spiny Dogfish**

- No anal fin, spines on dorsal fins
- Fish



## **Carcharias taurus (CATA)**

**Sand Tiger Shark**

- Fish



© Andy Murch / Elasmodiver.com

---

## **Cyclopterus lumpus (CYLU)**

**Lumpfish**

- Larger, round
- Swath



## **Hemitripterus americanus (HEAM)**

**Sea raven**

- Frilled, colorful
- Swath



---

## **Pholis gunnelus (PHGU)**

### **Rock Gunnel**

- Worm-like fish
- Swath

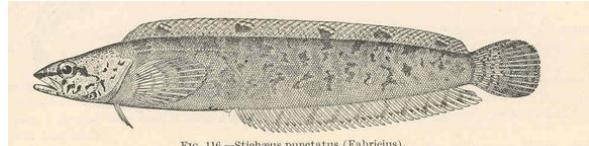


---

## **Stichaeus punctatus (STPU)**

### **Arctic Shanny**

- Pointed nose & patterns
- Quads

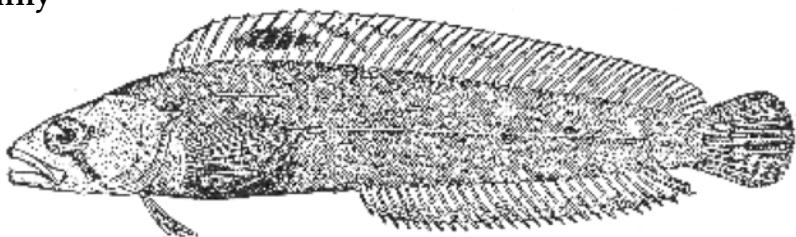


---

## **Ulvaria subbifurcata (ULSU)**

### **Radiated Shanny**

- Fin spot
- Quads



---

## **Eumicrotremus spinosus (EUSP)**

### **Spiny lumpsucker**

- Irregular tubercles, <15 cm
- Quads



dans ffessm.fr © Vincent MARAN

---

## **Lumpenus lumpretaeformis (LULU)**

### **Snake Blenny**

- Most slender
- UPC



© RIVO / Henk Heesom / 2005

---

## **Sabellidae sp. (SABW)**

### **Sabellid worm**

- Feather duster
- UPC



© Edgar

---

## Kelp Ecosystem Ecology Network (KEEN) - Gulf of Maine Species Guide Photo Sources:

# A

### **Abietinaria abietina:**

1995-2010, National Museums Northern Ireland and its licensors

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[View source](#) Supplier: [Encyclopedia of Marine Life of Britain and Ireland](#)

Photographer: [Bernard Picton](#)

### **Agarum clathratum:**

Jarrett Byrnes Personal photograph

### **Alaria esculenta:**

<http://www.seaweed.ie/guiry/>

M.D. Guiry

### **Alcyonium digitatum:**

[View source](#) Supplier: [Biopix](#)

Location Created: Nordsømuseet Hirtshals

### **Ahnfeltia plicata:**

[View source](#)

Supplier: [Biopix](#)

Location Created: Fornæs

### **Amphipod Tube Mat:**

MarLIN, Keith Hiscock,

<http://www.marlin.ac.uk/speciesfullreview.php?speciesID=3581>

### **Anarhichas lupus:**

Citron

[http://en.wikipedia.org/wiki/Atlantic\\_wolffish#mediaviewer/File:Anarhichas\\_lupus\\_Brest.jpg](http://en.wikipedia.org/wiki/Atlantic_wolffish#mediaviewer/File:Anarhichas_lupus_Brest.jpg)

### **Anguilla rostrata:**

<http://www.arkive.org/american-eel/anguilla-rostrata/>

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Animals Animals / Earth Scenes

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Chatham NY 12037

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[info@animalsanimals.com](mailto:info@animalsanimals.com)  
<http://www.animalsanimals.com>

**Anomia sp.**

[http://eol.org/data\\_objects/29474536](http://eol.org/data_objects/29474536)  
© Femorale

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Supplier: [Femorale](#)

**Aplidium pallidum:**

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Photographer: [Bernard Picton](#)

**Arbacia punctulata:**

[http://eol.org/data\\_objects/28650216](http://eol.org/data_objects/28650216)  
© Steven Lichti

[View source](#)

Supplier: [iNaturalist.org](#)

Publisher: Picasa

Creator: Steven Lichti

Location: Middle Marsh, Beaufort, NC

**Arthrocladia villosa:**

Arthrocladia villosa (Hudson) Duby (Image Ref. 8086)  
North Carolina; apex of sporophyte showing intercalary meristem  
© Eric Henry ([eric@reedmariculture.com](mailto:eric@reedmariculture.com))  
[http://www.algaebase.org/search/species/detail/?species\\_id=69](http://www.algaebase.org/search/species/detail/?species_id=69)  
Algaebase

**Ascidia callosa:**

[https://faculty.washington.edu/bjswalla/fhl\\_sp01/ascidians.html](https://faculty.washington.edu/bjswalla/fhl_sp01/ascidians.html)

**Ascidia aspersa:**

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Supplier: [The Dutch Ascidiarians Homepage](#)

Photographer: [Arjan Gittenberger](#)

[http://eol.org/data\\_objects/6673178](http://eol.org/data_objects/6673178)

**Ascophyllum nodosum:**

[View source](#) Supplier: [BioImages - the Virtual Fieldguide \(UK\)](#)  
Compiler: Malcolm Storey

**Asterias forbesi:**  
Bill Frank/[www.jaxshells.org](http://www.jaxshells.org)

**Asterias rubens:**  
© foto fitis, sytske dijksen  
[View source](#) Supplier: [Ecomare](#)

**Astrangia danae:**  
[http://njscuba.net/biology/misc\\_njscuba\\_ss.html](http://njscuba.net/biology/misc_njscuba_ss.html)

# B

**Baccinum undatum:**  
[View source](#) Supplier: [BioImages - the Virtual Fieldguide \(UK\)](#)  
Compiler: Malcolm Storey

**Barnacle spp.**  
(Semibalanus balanoides) [View source](#) Supplier: [Biopix](#)  
Location Created: Als, Øst-Himmerland, Danmark

**Boltenia echinata:**  
1995-2010, National Museums Northern Ireland and its licensors  
© National Museums Northern Ireland and its licensors  
[View source](#) Supplier: [Encyclopedia of Marine Life of Britain and Ireland](#)  
Photographer: [Bernard Picton](#)

**Boltenia ovifera:**  
[http://www.rsba.ca/recherche\\_espece/fiche\\_espece.php?recordID=57#](http://www.rsba.ca/recherche_espece/fiche_espece.php?recordID=57#)  
Luc Gagnon, Aquatic Biodiversity Monitoring Network

**Bonnemaisonia hamifera:**  
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Photographer: [Bernard Picton](#)

**Botryllus schlosseri:**  
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[View source](#) Supplier: [The Dutch Ascidians Homepage](#)  
Photographer: [Arjan Gittenberger](#)

**Botrylloides violaceus:**

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**Busycon canaliculatum:**

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[View source](#) Supplier: [National Museum of Natural History Collections](#)

Creator: Yolanda Villacampa

Location Created: Delaware Bay, Cape May, New Jersey, United States, North Atlantic Ocean

**Busycon carica:**

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[View source](#) Supplier: [Femorale](#)

**Bugula fulva:**

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[View source](#) Supplier: [World Register of Marine Species](#)

Creator: [De Blauwe, Hans](#)

[De Blauwe, Hans](#)

**Bugula neritina:**

[http://www.exoticsguide.org/bugula\\_neritina](http://www.exoticsguide.org/bugula_neritina)

California Academy of Sciences

**Bugula turrita:**

Ernst Mayer Library

<http://blogs.law.harvard.edu/ernstmayrlibrary/2013/06/25/656/bturrita/>

# C

**Cancer borealis:**

Fisheries and Oceans Canada, Catriona Day ([CaRMS@dfo-mpo.gc.ca](mailto:CaRMS@dfo-mpo.gc.ca))

JPG file - 24.07 kB - 699 x 559 pixels

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**Cancer irroratus:**

Fisheries and Oceans Canada, Catriona Day ([CaRMS@dfo-mpo.gc.ca](mailto:CaRMS@dfo-mpo.gc.ca))

JPG file - 32.60 kB - 699 x 559 pixels  
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**Carcharias taurus:**

© Andy Murch / Elasmodiver.com  
Elasmodiver.com  
[andymurch1@gmail.com](mailto:andymurch1@gmail.com)  
<http://www.elasmodiver.com>  
<http://www.arkive.org/sand-tiger-shark/carcharias-taurus/>

**Carcinus maenas:**

View source Supplier: BioImages - the Virtual Fieldguide (UK)  
Compiler: Malcolm Storey

**Callinectes sapidus:**

<http://www.dnr.sc.gov/marine/sertc/gallery.htm>  
Southeastern Regional Taxonomic Center

**Calliostoma occidentale:**

Kwansei Shell Database

**Centropristis striata:**

Public domain  
[http://commons.wikimedia.org/wiki/File:Centropristis\\_striata.jpg](http://commons.wikimedia.org/wiki/File:Centropristis_striata.jpg)

**Ceramium sp.:**

Emily Jones personal photograph

**Cerianthus borealis:**

<http://www.marinebiodiversity.ca/cmb/resources/Photo%20galleries/atlantic-species/photos-atlantic-species02.jpg/view>  
Center for Marine Biodiversity

**Chondrus crispus:**

Algaebase  
Silver Strand, Galway Bay, Ireland. 06 Apr 2012. M.D. Guiry. © M.D. Guiry  
(mike.guiry@nuigalway.ie)

**Chorda filum:**

View source Supplier: BioImages - the Virtual Fieldguide (UK)  
Compiler: Malcolm Storey

**Ciona intestinalis:**

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View source Supplier: The Dutch Ascidians Homepage

Photographer: [Arjan Gittenberger](#)

**Ciona savingyi:**

© Melissa Frey, Royal BC Museum

[View source](#) [Supplier: Marine Invaders of the NE Pacific](#)

Publisher: Frey, Melissa

Photographer: Melissa Frey

**Clathromorphum circumscriptum:**

<http://intertidal-novascotia.blogspot.com/2012/05/clathromorphum-spp-coralline-crust.html>

Between the Tides of Nova Scotia

**Cliona celata:**

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Photographer: [Bernard Picton](#)

[http://eol.org/data\\_objects/5969619](http://eol.org/data_objects/5969619)

**Coccotylus truncatus:**

[http://www.algaebase.org/search/species/detail/?species\\_id=431](http://www.algaebase.org/search/species/detail/?species_id=431)

Colin Bates (colinba@interchange.ubc.ca). © Coastal Imageworks

**Codium fragile:**

[View source](#) [Supplier: Biopix](#)

Location Created: Holmkær, NV-Jylland, Danmark

**Corallina officinalis:**

<http://www.habitas.org.uk/marinelife/species.asp?item=ZM4040>

Encyclopedia of Marine Life of Britain and Ireland

**Colpomenia peregrina:**

Jarrett Byrnes personal photo

**Crepidula fornicata:**

Keith Hiscock

<http://www.marlin.ac.uk/speciesinformation.php?speciesID=3086#>

The Marine Life Information Network

**Crisia eburnea:**

[http://www.aphotomarine.com/bryozoan\\_crisia\\_eburnea.html](http://www.aphotomarine.com/bryozoan_crisia_eburnea.html)

David Fenwick

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**Crassostrea virginica:**

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Creator: Yolanda Villacampa

Location Created: Cape Charles, Virginia, United States

**Crossaster papposus:**

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Photographer: Bernard Picton

**Cucumaria frondosa:**

Hilmar Hinz

The Marine Life Information Network

<http://www.marlin.ac.uk/speciesinformation.php?speciesID=3103>

**Cyclopterus lumpus:**

<http://www.ispolar.is/otherProducts.html>

**Cystoclonium purpureum:**

Emily Jones photo ID

# D

**Dendrobeania murrayana:**

<http://www.aquablog.ca/2013/02/bryozoans-in-howe-sound/>

Vancouver Aquarium

**Dendrodoa carnea:**

Author: Nozères, Claude

JPG file - 692.50 kB - 1976 x 1483 pixels [[more](#)]

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[Asciidiacea taxa](#)

[Dendrodoa carnea \(Rathke, 1806\)](#)

<http://www.marinespecies.org/ascidiacea/aphia.php?p=image&id=61466>

**Desmerestia aculeata:**

[View source](#) Supplier: Wikimedia Commons

Photographer: Pierre-Louis Crouan (1798-1871) & Hippolyte-Marie Crouan (1802-1871)

**Desmarestia viridis:**

[View source](#) Supplier: Freshwater and Marine Image Bank

**Didemnum albidum:**

[http://convoluta.ucdavis.edu/gallery/view\\_photo.php?set\\_albumName=West\\_Coast\\_Tunicates&id=Didemnum\\_carnulentum3](http://convoluta.ucdavis.edu/gallery/view_photo.php?set_albumName=West_Coast_Tunicates&id=Didemnum_carnulentum3)  
UC Davis

**Didemnum vexillum:**

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[View source](#) Supplier: [Marine Invaders of the NE Pacific](#)  
Publisher: Frey, Melissa  
Photographer: Melissa Frey

**Diadumene lineata:**

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Location Created: Sødringholm, Randers Fjord

**Diplosoma listerianum:**

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**Dumontia contorta:**

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Location Created: Fornæs, Djursland, Danmark

# E

**Echinarachnius parma:**

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Creator: Nozeres, Claude  
[Nozères, Claude](#)

**Ectopleura crocea:**

[View source](#) Supplier: [Wikimedia Commons](#)  
Photographer: [Peter Southwood](#)

**Electra pilosa:**

Author: Mikel Cortés  
<http://www.asturnatura.com/fotografia/submarina-fotosub/electra-pilosa/546.html>

**Eumicrotremus spinosus:**

<http://doris.ffessm.fr/gestionenligne/photos/Eumicrotremus%20spinosus00005.jpg>

**Euthora cristata:**

© Gary W. Saunders, University of New Brunswick  
[View source](#) Supplier: [Barcode of Life Data Systems \(BOLD\)](#)  
Photographer: CEMAR Research Group

# F

**Fagesia lineata:**

Ted Maeny Personal Photograph

**Filamentous Green:**

Algaebase  
Northern California. 08 Mar 2011. Wendell Wood (ww@oregonwild.org). ©  
[http://www.algaebase.org/search/species/detail/?species\\_id=11475](http://www.algaebase.org/search/species/detail/?species_id=11475)

**Fucus distichus:**

04 Apr 2004. Michael Guiry. © Michael Guiry ([mike.guiry@nuigalway.ie](mailto:mike.guiry@nuigalway.ie))  
[http://www.algaebase.org/search/species/detail/?species\\_id=352](http://www.algaebase.org/search/species/detail/?species_id=352)

# G

**Gadus morhua:**

Kjell Nilsson  
<http://mitofish.aori.u-tokyo.ac.jp/species/detail.html?genus=Gadus&species=morhua>

**Gersemia rubiformis:**

[http://sanamyan.com/underwater\\_photo/photo.php?img=8](http://sanamyan.com/underwater_photo/photo.php?img=8)  
Underwater life of the Pacific coast of Kamchatka (North Western Pacific, Russia)

# H

**Halichondria panicea:**

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**Haliclona oculata:**

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Photographer: [Bernard Picton](#)

**Halicystus spp.:**

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**Halocynthia pyriformis:**

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Supplier: [iNaturalist.org](#)  
Publisher: inaturalist  
Creator: Mark Rosenstein  
Location: Essex, Massachusetts, United States

**Halosiphon tomentosus:**

© Dirk Schories ([dirk.schories@gmx.de](mailto:dirk.schories@gmx.de)), Hohwachter Bight, Baltic Sea, Germany  
Depth: 2m Time: 15th of April 2004  
Algaebase

**Hemitripterus americanus:**

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Photographer: Andrew J. Martinez  
Location Created: Stellwagen Bank National Marine Sanctuary

**Henricia sanguinolenta:**

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Creator: [Ken-ichi Ueda](#)  
Publisher: Flickr  
Location: Rye, NH, US

**Heterosiphonia japonica:**

Heterosiphonia japonica Yendo (Image Ref. 13963)  
Ría de Arousa, Galicia, Spain, 2006  
© Ignacio Bárbbara ([barbara@udc.es](mailto:barbara@udc.es))

**Hildenbrandia rubra:**

Hildenbrandia rubra (Sommerfelt) Meneghini Spiddal, Co. Galway, Ireland; pools at MHWN

Algaebase

[http://www.algaebase.org/search/species/detail/?species\\_id=26](http://www.algaebase.org/search/species/detail/?species_id=26)

**Homarus americanus:**

[View source](#) Supplier: [Freshwater and Marine Image Bank](#)

Publisher: Freshwater and Marine Image Bank, University of Washington Libraries Digital Collections

Herrick, Francis Hobart. 1896. American Lobster : a Study of its Habits and Development. Washington, DC : Government Printing Office. Bulletin of the United States Fish Commission, vol.15, 1895; Plate 16-22

**Hyas coarctatus:**

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Photographer: Sarah Minks Hardy

**Hymedesmia sp.:**

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**Ischnochiton ruber:**

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**Isodictya palmata:**

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# L

## **Laminaria digitata:**

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## **Leathesia marina:**

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Algaebase

## **Leptophyllum spp. :**

[http://www.easterncapecubadiving.co.za/index.php?page\\_name=specie&specie\\_id=430](http://www.easterncapecubadiving.co.za/index.php?page_name=specie&specie_id=430)

Eastern Cape SCUBA diving

## **Leucoraja erinacea:**

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Photographer: Andy Martinez/NOAA

## **Leucoraja ocellata:**

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Creator: Gibbons, Ruth E.

Location Created: E. of Northern Long Island, NY., New York, Atlantic

## **Leucosolenia sp :**

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Photographer: [Bernard Picton](#)

## **Libinia emarginata:**

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Photographer: R. P. Nodder

## **(patinella verrucaria ) Lichenopora verrucaria:**

[http://www.wallawalla.edu/academics/departments/biology/rosario/inverts/Bryozoa/Class\\_Stenolaemata/Lichenopora\\_verrucaria.html](http://www.wallawalla.edu/academics/departments/biology/rosario/inverts/Bryozoa/Class_Stenolaemata/Lichenopora_verrucaria.html)

## **Limanda ferruginea:**

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Creator: Museum of Comparative Zoology, Harvard University

**Lithothamnion glaciale:**

Lithothamnion glaciale Kjellman (Image Ref. 10663)

Bay of Fundy, New Brunswick, Canada

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Algaebase

**Lumpenus lumpretaeformis:**

<http://www.marinespecies.org/aphia.php?p=image&pic=2496>

Heessen, Henk

JPG file - 43.42 kB - 1417 x 267 pixels [\[more\]](#)

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WoRMS taxa

Chirolophis ascanii (Walbaum, 1792)

**Lunatia heros:**

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# M

**Mastocarpus stellatus:**

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**Melanogrammus aeglefinus:**

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**Membranipora membranacea:**

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Compiler: Malcolm Storey

**Merluccis bilinearis:**

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**Metridium senile:**

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Location Created: Nordsømuseet Hirtshals

**Clathria (Microciona) prolifera:**

David Remsen

<https://www.flickr.com/photos/dremsen/2907344986/>

**Modiolus modiolus:**

[View source](#) Supplier: Biopix

Location Created: Holmkær, NV-Jylland, Danmark

**Molgula citrina:**

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Photographer: Arjan Gittenberger

**Molgula manhattensis:**

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Supplier: [Marine Invaders of the NE Pacific](#)

Publisher: Frey, Melissa

Photographer: Melissa Frey

**Morone saxatalis:**

[View source](#) Supplier: [Shorefishes of the neotropics](#)

Photographer: Robertson, D Ross

Publisher: Robertson, D Ross

**Myoxocephalus aenaeus:**

Description: Small sculpin. Capture: 1944, Ile-aux-Coudres. Source: MLI collection, DFO-R. Miller.

Author: Fisheries and Oceans Canada, Claude Nozères ( [claudenozeres@gmail.com](mailto:claudenozeres@gmail.com) )

JPG file - 703.02 kB - 2956 x 2217 pixels [more]

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Myoxocephalus aenaeus (Mitchill, 1814) ?

Citation: CaRMS Photogallery / Fisheries and Oceans Canada, Claude Nozères, 2011

<http://www.marinespecies.org/carms/photogallery.php?album=1487&pic=41162>

**Myoxocephalus octodecemspinosus:**

© Smithsonian Institution, National Museum of Natural History, Department of Vertebrate Zoology, Division of Fishes

[View source](#) Supplier: [National Museum of Natural History Collections](#)

Creator: Hudson, Charles B.

Location Created: Gulf of Maine., Massachusetts, United States, Atlantic

**Myoxocephalus scorpius:**

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[View source](#) Supplier: [FishBase](#)

Photographer: [Thorke A.S. Østergaard](#)

**Mytilus edulis:**

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Location Created: Lendrup S.f. Løgstør, Danmark

# N

**Neptunea decemcostata:**

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# O

**Obelia spp.:**

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Photographer: [Bernard Picton](#)

**Ophiothrix aculeata:**

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Photographer: [Bernard Picton](#)

**Ostrea edulis:**

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Photographer: [Bernard Picton](#)

**Ovalipes ocellatus:**

© cyric

[View source](#) Supplier: [iNaturalist.org](#)

Creator: Cyric  
Publisher: inaturalist  
Location: Washington, Rhode Island, United States

# P

**Panopeus herbstii:**

<http://www.edc.uri.edu/restoration/html/gallery/invert/black.htm>

Irene H. Stuckey, courtesy of R.I. Natural History Survey

**Paralichthys oblongus:**

McBride RS, JW Hauser, and SJ Sutherland, eds. [Internet]. Woods Hole (MA):US Dept Commer, Northeast Fish Sci Cent. Available from:

<http://www.nefsc.noaa.gov/fbp/oto-guide/>

<http://www.nefsc.noaa.gov/fbp/oto-guide/>

**Paralichthys dentatus:**

[View source](#) Supplier: EOL Interns LifeDesk

Publisher: Feil, Kate

Photographer: NOAA, Status of Fishery Resources off the Northeastern US NEFSC - Resource Evaluation and Assessment Division

**Palmaria palmata:**

1852 Alguier des frères Crouan, Université de Bourgogne

Pierre-Louis Crouan (1798-1871) & Hippolyte-Marie Crouan (1802-1871)

**Pholis gunnelus:**

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Photographer: [Bernard Picton](#)

**Phycodrys rubens:**

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Algaebase

[http://www.algaebase.org/search/species/detail/?species\\_id=158](http://www.algaebase.org/search/species/detail/?species_id=158)

**Phymatolithon spp.:**

Spanish Point, Co. Clare, Ireland; lower intertidal rock under Fucus. 04 Aug 2004.

Michael Guiry. © Michael Guiry ([mike.guiry@nuigalway.ie](mailto:mike.guiry@nuigalway.ie)).

[http://www.algaebase.org/search/species/detail/?species\\_id=114](http://www.algaebase.org/search/species/detail/?species_id=114)

**Placoplecten magellanicus:**

[View source](#) Supplier: [Wikimedia Commons](#)  
Photographer: Dann Blackwood, USGS

**Pollachius virens:**

[View source](#) Supplier: [Biopix](#)  
Location Created: Kattegatcentret Grenå

**Polyides rotundus:**

Emily Jones

**Polysiphonia sp.:**

[View source](#) Supplier: [Biopix](#)  
Location Created: Fornæs

**Pomatomus saltatrix:**

[http://commons.wikimedia.org/wiki/File:Pomatomus\\_saltatrix.jpg](http://commons.wikimedia.org/wiki/File:Pomatomus_saltatrix.jpg)

**Porphyra spp.:**

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[View source](#) Supplier: [Encyclopedia of Marine Life of Britain and Ireland](#)  
Photographer: [Bernard Picton](#)

**Prionotus carolinus:**

© cyric  
[View source](#)  
Supplier: [iNaturalist.org](#)  
Creator: Cyric  
Publisher: inaturalist  
Location: Potter Pond

**Pseudopleuronectes americanus:**

[View source](#) Supplier: [Freshwater and Marine Image Bank](#)  
Publisher: Freshwater and Marine Image Bank, University of Washington  
Libraries Digital Collections  
New York (State). Forest, Fish and Game Commissioner. 1907. Annual Reports of  
the Forest, Fish and Game Commissioner of the State of New York for 1904-  
1905-1906 (10th-12th). Albany, NY : J. B. Lyon Company, State Printers; Facing  
page 156

**Psolus fabricii:**

© WoRMS for SMEBD  
[View source](#) Supplier: [World Register of Marine Species](#)  
Creator: Nozeres, Claude  
[Nozères, Claude](#)

## **Ptilota serrata:**

[http://www.algaebase.org/search/species/detail/?species\\_id=752](http://www.algaebase.org/search/species/detail/?species_id=752)  
© Coastal Imageworks ([colinba@interchange.ubc.ca](mailto:colinba@interchange.ubc.ca))  
Algaebase

# S

## **Sabella sp.:**

© Foto <http://edgar.sidaan.nl>  
[View source](#) Supplier: Ecomare

## **Saccorhiza dermatodea:**

© Gary W. Saunders, University of New Brunswick  
[View source](#) Supplier: [Barcode of Life Data Systems \(BOLD\)](#)  
Photographer: CEMAR Research Group

## **Saccharina sp.:**

© Michael Guiry ([mike.guiry@nuigalway.ie](mailto:mike.guiry@nuigalway.ie))  
[http://www.algaebase.org/search/species/detail/?species\\_id=129132](http://www.algaebase.org/search/species/detail/?species_id=129132)  
Algaebase

## **Scypha sp.:**

<http://www.1townhouses.co.uk/pelagicpixels/2009/EastJuly09/Bonus%20Tuesday%20Rosalie/slides/P7072550.htm>  
Uk Diving

## **Schizoporella unicornis:**

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[View source](#) Supplier: [World Register of Marine Species](#)  
Creator: [René van Outryve & Hans De Blauwe](#)  
[De Blauwe, Hans](#)

## **Schizomavella auriculata:**

MedRecover  
[http://corspecies.medrecover.org/photos/SchizoAuricu\\_070710\\_MGD\\_TC\\_2\\_SP8.jpg](http://corspecies.medrecover.org/photos/SchizoAuricu_070710_MGD_TC_2_SP8.jpg)

## **Scophthalmus aquosus:**

Public domain  
[http://eol.org/data\\_objects/26809538](http://eol.org/data_objects/26809538)

## **Sebastes fasciatus:**

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[http://eol.org/data\\_objects/27262374](http://eol.org/data_objects/27262374)

**Strongylocentrotus droebachiensis:**

[View source](#) Supplier: Biopix

Location Created: Kattegatcentret Grenå

**(Thylacoides) Serpulorbis:**

© Femorale

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**Sertularia sp.:**

[http://eol.org/data\\_objects/5970244](http://eol.org/data_objects/5970244)

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Supplier: Encyclopedia of Marine Life of Britain and Ireland

Photographer: [Bernard Picton](#)

**Solaster endeca:**

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[View source](#) Supplier: Encyclopedia of Marine Life of Britain and Ireland

Photographer: [Bernard Picton](#)

**Spermothamnion repens:**

Spain, Galicia, A Coruña, Ártabra, 2005, lower intertidal on Ahnfeltia plicata

© Ignacio Bárbara ([barbara@udc.es](mailto:barbara@udc.es))

[http://www.algaebase.org/search/species/detail/?species\\_id=484](http://www.algaebase.org/search/species/detail/?species_id=484)

**Sphoeroides maculatus:**

<http://www.flickr.com/photos/28567825@N03/3148924923>

Cliff

**Squalus acanthias:**

<http://new-brunswick.net/new-brunswick/sharks/species/spinydogfish.html>

**Stenotomus chrysops:**

TheFishMap.com

Flescher, Don.

<http://www.thefishmap.com/fish-specie/stenotomus-chrysops.p1.html>

**Stichaeus punctuatus:**

[View source](#) Supplier: Freshwater and Marine Image Bank

Publisher: Freshwater and Marine Image Bank, University of Washington  
Libraries Digital Collections

Evermann, Barton Warren; Goldsborough, Edmund Lee. 1907. Fishes of Alaska. Washington, DC : Government Printing Office. Bulletin of the Bureau of Fisheries, vol. 26, 1906; Fig.116

**Styela clava:**

© Arjan Gittenberger

[View source](#) [Supplier: The Dutch Ascidians Homepage](#)

Photographer: [Arjan Gittenberger](#)

**Syngnathus fuscus:**

[http://eol.org/data\\_objects/22666123](http://eol.org/data_objects/22666123)

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[View source](#)

Supplier: [iNaturalist.org](#)

Creator: [Ken-ichi Ueda](#)

Publisher: Flickr

Location: Hammonasset State Park, Madison, CT, USA

# T

**Tautogolabrus adspersus:**

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[View source](#) [Supplier: Museum of Comparative Zoology, Harvard](#)

Creator: Museum of Comparative Zoology, Harvard University

[View full-size image](#)

**Tautoga onitis:**

<http://www.chesapeakebay.net/fieldguide/critter/tautog>

(Virginia Institute of Marine Science)

**Tectura testudinalis:**

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Photographer: [Bernard Picton](#)

**Titanoderma spp.:**

[http://www.aphotomarine.com/images/seaweed/red\\_seaweed\\_titanoderma\\_pustulatum\\_13-08-10\\_4.jpg](http://www.aphotomarine.com/images/seaweed/red_seaweed_titanoderma_pustulatum_13-08-10_4.jpg)

**Tricellaria inopinata:**

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Creator: [Van Outryve René](#)  
[Van Outryve, René, R.](#)

**Tubular Ulvoid:**

Image © Dr. Gary W. Saunders, University of New Brunswick / Centre for Environmental & Molecular Algal Research (CEMAR) / [www.unb.ca/cemar](http://www.unb.ca/cemar)  
<https://seaweedindustry.com/seaweed/type/ulva-prolifera>

# U

***Ulvaria subbifurcata:***

[http://www.gma.org/fogm/Ulvaria\\_subbifurcata.htm](http://www.gma.org/fogm/Ulvaria_subbifurcata.htm) [Jordan and Evermann, 1896-1900, p. 2440.] Figure 263.—Radiated shanny (*Ulvaria subbifurcata*). From Jordan and Evermann. Drawing by H. L. Todd.

**UNID Juv Laminariales Blade (BLD):**

Ted Lyman personal photograph

***Urticina felina:***

[View source](#) Supplier: [Biopix](#)  
Location Created: Nordsømuseet Hirtshals

***Urophyicus regia:***

[View source](#) Supplier: [Freshwater and Marine Image Bank](#)  
Publisher: Freshwater and Marine Image Bank, University of Washington  
Libraries Digital Collections  
Smith, Hugh M. 1907. Fishes of North Carolina. Raleigh, NC : E. M. Uzzell & Co.  
North Carolina Geological and Economic Survey, vol.II; Fig. 176

**Ulvoid:**

[View source](#) Supplier: [Wikimedia Commons](#)  
Photographer: [H. Krisp](#)  
Location Created: region:HR

# Z

***Zoarces americanus:***

[http://eol.org/data\\_objects/26680036](http://eol.org/data_objects/26680036)  
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Supplier: [Museum of Comparative Zoology, Harvard](#)

Creator: Museum of Comparative Zoology, Harvard University

**Zostera marina:**

Zostera marina Linnaeus (Image Ref. 22766)

upper subtidal, Ría de Camariñas, Galicia, Spain, 2012 - 01 Jan 0001

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