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OREGON INSTITUTE  
OF  
MARINE BIOLOGY

THE MARINE ALGAE OF THE  
COOS BAY REGION

Hazel Hayden

## CHLOROPHYLLES

### I. Siphonales

#### A. Bryopsidaceae

1. *Bryopsis hypnoides*
  - (a) Location--Codium Cove, and Old Jetty.
  - (b) Habitat---High shallow tide pools.
2. *Bryopsis plumosa*
  - (a) Location--Mussel Reef and Covium Cove.
  - (b) Habitat---High shallow tide pools.

#### B. Codiaceae

1. *Codium fragile*
  - (a) Location--S. Sunset Bay, Mussel Reef, Codium Cove, and Squaw Island.
  - (b) Habitat---Usually found in deep high tide pools where it is not disturbed by wave action.
2. *Codium Setchellii*
  - (a) Location--Mussel Reef, Squaw Island
  - (b) Habitat---

### II. Siphonocladiales

#### A. Cladophoraceae

1. *Cladophora trichotoma*
  - (a) Location--S. Sunset Bay, Squaw Island, Codium Cove, and Mussel Reef.
  - (b) Habitat---Tide pools and flat rocks in the upper littoral
2. *Cladophora trichotoma* of elongata
  - (a) Location--S. Sunset Bay, Codium Cove, Mussel Reef, and Squaw Island.
  - (b). Habitat---Deep tide pools in the upper littoral zone.
3. *Cladophora* sp?
  - (a) Location--S. Sunset Bay, Squaw Island, and Mussel Reef.
  - (b) Habitat---Deep tide pools.
4. *Rhizoclonium riparium*
  - (a) Location--South Slough.
  - (b) Habitat---Rocks near the low water mark.
5. *Rhizoclonium tortuosum*.
6. *Spongimorpha coalita*
  - (a) Location--Sunset Bay and Squaw Island.
  - (b) Habitat---Tide pools of the upper littoral zone.

### III. Ulvales

#### A. Ulvaceae

##### 1. *Ulva lactuca*

- (a) Location—Beach, S. Sunset Bay, Squaw Island, S. Slough, and Old Jetty.
- (b) Habitat—On the surface of flat rocks and high tide pools in the upper littoral zone.

##### 2. *Ulva stenophylla*

- (a) Location—South Beach, Old Jetty, and Squaw Island.
- (b) Habitat—Found with *Ulva lactuca* in the upper littoral zone.

##### 3. *Ulva fasciata*

- (a) Location—Squaw Island.
- (b) Habitat—Deep tide pools in the upper littoral zone.

##### *Ulva linearis* (?)

- (a) Location—South Beach, S. Sunset Bay, Squaw Island, and Old Jetty.
- (b) Habitat—Usually found on the surface of flat rocks where fresh water drifts down over them. It is found in the upper littoral zone where it is covered with salt water only during high tides, then exposed to the sunlight in certain places the color will become almost white in places.

##### 5. *Ulva angusta*

- (a) Location—South Slough, and Sunset Bay.
- (b) Habitat—In tide pools in the upper littoral zone.

##### 6. *Ulva* sp.?

- (a) Location—Might have been *Ulva lactuca* or *U. fasciata*.
- (b) Habitat—On flat stones the yellow part is on the back side of the stone like Ulva linearis, but is lighter.

##### 7. *Enteromorpha intestinalis*

- (a) Location—South Beach, S. Sunset Bay, and Old Jetty.
- (b) Habitat—Grows up on the beach and appears to be a deep water form.

##### 8. *Enteromorpha intestinalis* (?)

- (a) Location—South Slough, Beach, Sunset Bay, and Squaw Island.
- (b) Habitat—In low tide pools and flat rocks near the high water mark.

### IV. Ulvales

#### A. Ulvaceae

##### 1. *Ulothrix adansoni* (?)

- (a) Location—South Beach, S. Sunset Bay, and Old Jetty.
- (b) Habitat—Found on rocks.

##### 2. *Ulothrix ciliata* (?)

- (a) Location—Old Jetty and S. Slough, Squaw Island.
- (b) Habitat—On the surface of flat rocks in the upper littoral zone.

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PHAEOPHYACEAE

I. *Reticulariales*

A. *Lenthariaceae*

1. *Lentharia difformis*

(a) Location—Sunset Bay, Squaw Island, Tunnel Point, Codium Cove, Mussel Reef.

(b) Habitat—Found on the surface of flat rocks among Ulva and Carteria in the upper littoral zone.  
*nearly to intertidal zone*

B. *Asperaceae*

1. *Sorantharia ulvoidea*

(a) Location—Mussel Reef, Squaw Island, S. Sunset Bay,

(b) Habitat—Attached to Odonthalia in deep tide pools  
in the upper littoral zone.

C. *Heterothelidaceae*

1. *Heterothelidaria obliquina*

(a) Location—Mussel Reef, Beach, S. Sunset Bay, Tunnel Point, Squaw Island.

(b) Habitat—On flat rocks and shallow pools just above low tide mark.

D. *Pometariaceae*

1. *Pometaria latifolia* (?)

(a) Location—S. Sunset Bay, Squaw Island, Tunnel Point and Beach.

(b) Habitat—Hanging down on sides of rocks just above low tide mark.

E. *Reticulariales*

1. *Reticularia*

(a) Location—Beach, Lighthouse beach, Tunnel point, Squaw Island

(b) Habitat—Washed up on the beach and attached to *Perophyton* and *Lomentaria* stalks and blades.

F. *Scytesiphonales*

1. *Scytesiphon*

(a) Location—Mussel Reef, Tunnel Point, and S. Sunset Bay,

(b) Habitat—On flat rocks above low tide mark and in shallow tide pools in the upper littoral zone.

## II. Desmarestiales

### A. Desmarestiaceae

1. *Desmarestia ligulata* (Gmelin)  
(a) Location—Funnel Point, Squaw Island, S. Sunset Bay, Lighthouse beach, and reefs.  
(b) Habitat—Grows in the sublittoral zone along the base of rocky reefs in pools which are somewhat protected from the beating of the waves.
2. *Desmarestia aculeata*  
(a) Location—Funnel Point and S. Slough.  
(b) Habitat—Attached to rocks just below the low tide mark near D. ligulata.
3. *Desmarestia latifrons*  
(a) Location—Sunset Bay.  
(b) Habitat—Washed ashore and found lying on the beach, probably a deep form.
4. *Desmarestia viridis*  
(a) Location—Old Jetty, and S. Slough.  
(b) Habitat—Washed ashore.

## III. Chordariales

### 1. Ciliophora cystostreinae

- (a) Location—Sunset Bay, and Squaw Island.  
(b) Habitat—In deep tide pools growing on *Cystacraea*.

## IV. Laminariales

### A. Laminariaceae

1. *Laminaria saccharinum*  
(a) Location—Funnel Point, Captain Flats, and Squaw Island.  
(b) Habitat—Along the base of rocks and rocky reefs in the lower littoral zone.
2. *Laminaria sinclairii*  
(a) Location—Squaw Island, Funnel Point, and Mussel Rock.  
(b) Habitat—Grows on the sides of rocks below low tide mark.
3. *Laminaria undulans*  
(a) Location—Funnel point, Squaw Island, S. Sunset Bay and Mussel Rock.  
(b) Habitat—Found with L. saccharinum along the base of rocky reefs in the lower littoral zone.
4. *Laminaria cuneifolia*  
(a) Location—Squaw Island and Mussel Rock.  
(b) Habitat—Found with *Hedophyllum* along the sides of rocks above low tide mark.

B. *Cocotaria castata*

- (a) Location—Squaw Island, S. Sunset Bay, Mussel Reef.  
(b) Habitat—Near the ends of reefs where it is beaten by waves in the sublittoral zone.

C. *Hedophyllum sanctum*

- (a) Location—S. Sunset Bay, Mussel Reef, Squaw Island, and Codium Cove.  
(b) Habitat—On the sides of rocks and reefs just above low water mark.

B. *Alariaceae*

1. *Pterogynopeltis californica*

- (a) Location—Squaw Island, S. Sunset Bay, and Mussel Reef.  
(b) Habitat—In the sublittoral zone below banks covered with *Hedophyllum*.

2. *Alaria name*

- (a) Location—S. Sunset Bay  
(b) Habitat—at the end of reefs in the littoral zone where it is beaten by waves during low tides.

3. *Alaria valida*

- (a) Location—Mussel Reef, Codium Cove, Squaw Island, and S. Sunset Bay.  
(b) Habitat—Below low tide line attached to the base of rocks.

4. *Egregia menziesii*

- (a) Location—Mussel Reef, Beach, Tunnel Point, S. Sunset Bay, and Squaw Island.  
(b) Habitat—Found with *Alaria valida*.

C. *Lepanominae*

1. *Pachystima palmata*

- (a) Location—Sunset Bay, Squaw Island, Mussel Reef and near some reefs.  
(b) Habitat—at the ends of rocky reefs where it is constantly being beaten by waves.

2. *Lessonia litoralis*

- (a) Location—Sunset Bay, Squaw Island, Mussel Reef, Tunnel Point  
(b) Habitat—at the ends of reefs and reefs near Pachystima where it is beaten by the waves.

3. *Morocystis laevigata*

- (a) Location—Sunset Bay, Squaw Island, Tunnel Point, Codium Cove, and Mussel Reef.  
(b) Habitat—in sublittoral zone along the base of rocky reefs.

4. *Morocystis sinifera*

- (a) Location—Beach, Lighthouse beach, Jetty, S. Sunset  
(b) Habitat—Sublittoral zone—it sometimes washes up on the beach.

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## V. Fucales

### A. Fucaceae

1. *Fucus nigricans* (?)  
(a) Location--Messel Reef.
2. *Fucus forestus*  
(a) Location--Squaw Island.
3. *Fucus evanescens* ~~erecta~~  
(a) Location--Squaw Island.
4. *Fucus evanescens*  
(a) Location--Squaw Island.
5. *Fucus evanescens erectoris*  
(a) Location--Sunset Bay.
6. *Polvetiopsis limitata hypalin*  
(a) Location--Sunset Bay.  
(b) Habitat--All *Fucus* found attached to rocks in the upper littoral zone.

### B. Sargassaceae

1. *Sycozoa communis*  
(a) Location--Sunset Bay, Lighthouse Beach, Squaw Island, Messel Reef.  
(b) Habitat--Found in large deep tide pools in the subtidal zone.

## RHODOPHYTACAE

### I. Rhizophorales

#### A. Rhizophoraceae

1. *Rhizophora stylosa*  
(a) Location--Sunset Bay, Squaw Island, and Tunnel Pointe.  
(b) Habitat--Grows as a tree covering all rocks in the littoral zone.
2. *Porphyra umbilicalis major*  
(a) Location--Squaw Island, Lighthouse Beach, Beach, R. Sunset Bay.  
(b) Habitat--Growing attached to sea grass in the upper littoral zone.
3. *Porphyra perforata*  
(a) Location--Squaw Island, Tunnel Point  
(b) Habitat--Attached to rocks in the upper littoral zone.

### II. Moniliiales

#### A. Gleicheniaceae

*Cymagloa andersiae*

1. *Gleimpeltia forestata*  
(a) Location--Sunset Bay, Codium Cove.  
(b) Habitat--Growing on flat rocks in the upper littoral zone and is associated with *Padina latiseta* and *Cigartina nodifolia*.

### III. Cryptoniales

#### A. Dictyotaceae

1. *Centocarpus stellatus*  
(a) Location—Squaw Island, Sunset Bay, and Lighthouse Beach.  
(b) Habitat—Found in the lower intertidal zone attached to rocks where there is a great deal of wave action.

#### B. Rhizophyllidae

1. *Polyides rotundus*  
(a) Location—Beach, Lighthouse beach.  
(b) Habitat—Attached to the base of rocks along the beach where there is much wave action.

#### C. Corallinales

1. *Micropora setiferulum*  
(a) Location—Squaw Island, Lighthouse Beach, and Sunset Bay.  
(b) Habitat—Growing on sea grass in tide pools.
2. *Amphiroa tuberculata*  
(a) Location—Sunset Bay, Squaw Island.  
(b) Habitat—Grows in deep tide pools.
3. *Corallina officinalis*  
(a) Location—Sunset Bay, Squaw Island.  
(b) Habitat—Very deep tide pools.

### IV. Ceramiales

#### A. Ceramiaceae

1. *Ceramium tenuissimum* (var. *virginicum*)  
(a) Location—Lighthouse Beach, Beach, North Slough, Sunset Bay, and Tunnel Point.  
(b) Habitat—Grown upon the beach attached to *Sargassum* stalks and to *Graecaria*.
2. *Ceramium washingtonianum*  
(a) Location—Sunset Bay.  
(b) Habitat—Deep tide pools.
3. *Ceramium pacificum* (var. *varium*)  
(a) Location—Lighthouse Beach, Sunset Bay.  
(b) Habitat—Tide pools.
4. *Anadyomene pacifica*  
(a) Location—Beach, Lighthouse beach.  
(b) Habitat—Attached to *Sargassum* stalks.
5. *Anthidium deflexum*  
(a) Location—Lighthouse beach.  
(b) Habitat—Attached to *Sargassum* stalks.

6. *Platythamnion pectinatum*  
(a) Location—Lighthouse Beach.  
(b) Habitat—Attached to *Harcycystis* Stalk.
7. *Coratostamnion pilosum* (?)  
(a) Location—Funnel Point, Sunset Bay, Squaw Island.  
(b) Habitat—On flat rocks in the upper littoral zone.
8. *Ptilota solifascia* (*serrata*)  
(a) Location—Sunset Bay, Lighthouse Beach, Squaw Island.  
(b) Habitat—Attached to rocks in the lower littoral zone.
9. *Plumaria elegans* (?)  
(a) Location—Sunset, Lighthouse Beach  
(b) Habitat—Floating and attached to rocks in the lower littoral zone.

B. Rhodophylacaceae

1. *Odontothalia semiangusta*  
(a) Location—Sunset Bay, Mussel Reef, and Squaw Island.  
(b) Habitat—Deep tide pools.
2. *Odontothalia flexuosa*  
(a) Location—Mussel Reef, Beach, and Codium Cove.  
(b) Habitat—Deep tide pools.
3. *Odontothalia lyallii*  
(a) Location—Beach, Codium Cove, Sunset, and Squaw Islands.  
(b) Habitat—Attached on the ends of reefs in the littoral zone where it is beaten by waves.
4. *Laurencia pinnatifida* (?)  
(a) Location—Mussel Reef, Sunset Bay, Squaw Island.  
(b) Habitat—Attached to rocks in the lower littoral zone and in shallow pools.
5. *Laurencia* (?)  
(a) Location—Sunset Bay, and Squaw Island.  
(b) Habitat—in tide pools and attached to rocks in littoral zones.
6. *Polyzoiphonia uncinata*  
(a) Location—Sunset Bay.  
(b) Habitat—Attached to rocks in high tide pools.
7. *Polyzoiphonia semibimaculata*  
(a) Location—Sunset Bay, South Slough.  
(b) Habitat—Attached to sand in tide pools and on rocks.
8. *Polyzoiphonia tenuistriata* (*californica*)  
(a) Location—Lighthouse Beach, Funnel Point.  
(b) Habitat—On *Harcycystis* attached to rocks and in tide pools.
9. *Pterosiphonia dentirostris*  
(a) Location—Lighthouse Beach.  
(b) Habitat—Attached to sandy banks at the base of rocks in the lower littoral zone.
10. *Pterosiphonia gracilis*  
(a) Location—Funnel Point.  
(b) Habitat—Attached to rocks in the upper littoral zone.
11. *Pterosiphonia Verrillii*  
(a) Location—Lighthouse Beach, and Beach.  
(b) Habitat—On *Harcycystis* stalk and blades and on *Luminaria anderseni* blades.

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### C. Deltophiaceae

1. *Pytoraglossa Grinnellia americana* (?)  
(a) Location—Squaw Island, Lighthouse Beach, and Crescent.  
(b) Habitat—Attached to the sides of rocks in the lower littoral zone where it is exposed to wave action.
2. *Micropeltis herculea*  
(a) Location—Sunset Bay, Tunnel Point, Beach, Mussel Reef, and Squaw Islands.  
(b) Habitat—Wide pools and attached to rocks in the littoral zone. Very common and varying greatly in size and color.
3. *Mitophyllum erythrorhizon*  
(a) Location—Squaw Island, Sunset Bay, and Lighthouse Beach.  
(b) Habitat—Grows attached to sides of rocky reefs in the lower littoral zone.
4. *Mitophyllum mirabilis*  
(a) Location—Lighthouse Beach.  
(b) Habitat—Floated upon the beach. Probably a deep sea form.
5. *Mitophyllum latissimum*  
(a) Location—Lighthouse Beach, Squaw Island, Tunnel Point.  
(b) Habitat—Floated upon beach.

### V. Gigartinales

#### A. Gigartinae

1. *Gigartina papillata* (millows)  
(a) Location—Sunset Bay, Tunnel Point, Squaw Island, and Mussel Reef.  
(b) Habitat—Growing on flat rocks in very shallow pools in the upper littoral zone.
2. *Gigartina rodula microphylla*  
(a) Location—Old Jetty, Sanil Slough.  
(b) Habitat—Attached to rocks in shallow pools in the lower littoral zone.
3. *Gigartina rodula*  
(a) Location—Squaw Island, Sunset Bay, Mussel Reef, and Tunnel Point.  
(b) Habitat—Sides of rocks in the lower littoral zone.
4. *Gigartina exasperata*  
(a) Location—Lighthouse Beach.  
(b) Habitat—Floating—probably a deep water form.
5. *Gigartina linearis* typica  
(a) Location—Tunnel Point, Lighthouse Beach, and Squaw Island.  
(b) Habitat—Lower littoral zone attached to shallow water protected plants.
6. *Heterosiphonia myriocarpa*  
(a) Location—Sunset Bay, Beach, Codine Cove, and Tunnel Point.  
(b) Habitat—High littoral region in almost dry areas.

7. *Oculinaria solitariae* (*Opuntia solitaria*)  
 (a) Location—Squaw Island, Society, and Lighthouse Beach.  
 (b) Habitat—On rock slopes in the lower littoral zone.
8. *Pyurula solitariae*  
 (a) Location—Squaw Island, Society, and Lighthouse Beach.  
 (b) Habitat—In tide pools.
9. *Pyurula solitariae*  
 (a) Location—Squaw Island, Society, and Lighthouse Beach.  
 (b) Habitat—In tide pools.
10. *Pyurula solitariae*  
 (a) Location—Squaw Island, Society, and Lighthouse Beach.  
 (b) Habitat—In tide pools.
11. *Gobiesox solitariae* (*Gobiesox pectoralis*)  
 (a) Location—Squaw Island, Society, and Lighthouse Beach.  
 (b) Habitat—Attached to rocks in the lower littoral zone.
12. *Gobiesox solitariae* (*Gobiesox pectoralis*)  
 (a) Location—Squaw Island, Society, and Lighthouse Beach.  
 (b) Habitat—Attached to rocks in the lower littoral zone.
13. *Gobiesox solitariae* (*Gobiesox pectoralis*)  
 (a) Location—Squaw Island, Society, and Lighthouse Beach.  
 (b) Habitat—Attached to rocks in the lower littoral zone.
14. *Gobiesox solitariae* (*Gobiesox pectoralis*)  
 (a) Location—Squaw Island, Society, and Lighthouse Beach.  
 (b) Habitat—Attached to rocks in the lower littoral zone.
15. *Gobiesox variegatus*  
 (a) Location—Lighthouse Beach, Squaw Island.  
 (b) Habitat—Floating.

#### VII. Rhodymenales

1. *Plaxiella tenuis*  
 (a) Location—Sunset Bay, Tunnel Pointe.  
 (b) Habitat—Attached to rocks in the lower littoral zone.
2. *Plaxiella* (?)  
 (a) Location—Tunnel Reef.  
 (b) Habitat—Tide pools.
3. *Plaxiella secundum*  
 (a) Location—Squaw Island.  
 (b) Habitat—Attached to rocks in the lower littoral zone.
4. *Gracilaria confervoides*  
 (a) Location—A. Slough, Beach and Lighthouse Beach.  
 (b) Habitat—Found floating but is probably a slow grower.
5. *Heterococcus glandiforme*  
 (a) Location—Tunnel Reef, Sunset Bay, Society.  
 (b) Habitat—On flat rocks in the upper littoral zone  
                   in very shallow high tide pools.
6. *Rhodomela larix*  
 (a) Location—Tunnel Pointe, Squaw Island, Society, and  
                   Lighthouse Beach.  
 (b) Habitat—Found in tide pools and flat rocks in the  
                   littoral zone.