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OREGON INSTITUTE
OF
MARINE BIOLOGY

THE MARINE ALGAE OF THE
COOS BAY REGION

Hazel Neyden
CHLOROPHYTA

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 Codium Cove.
   (b) Habitat—High shallow tide pools.

B. Codiaeaceae

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 zone.

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 coelata
   (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, & Sunset Bay, Squaw Island, &
   Flaherty and Old Station.
   (b) Habitat—On the surface of flat rocks and high tide
   pools in the upper littoral zone.

2. Ulva globosa
   (a) Location—Beach, & Sunset Bay, Squaw Island.
   (b) Habitat—By the shore and drift line in the upper littoral
   zone.

3. Ulva fasciata
   (a) Location—Squaw Island.
   (b) Habitat—Live tide pools in the upper littoral zone.

4. Ulva aurea
   (a) Location—Beach, & Sunset Bay, and Squaw Island.
   (b) Habitat—In tide pools in the upper littoral zone.

5. Ulva sp. 7
   (a) Location—High-tide rocks.
   (b) Habitat—Arboreal species found on the littoral
   rocks near the balls.

6. Enteromorpha intestinalis
   (a) Location—North Beach, Sunset Bay, & On
   Squaw Island.
   (b) Habitat—Behind the tide pools and in the
   sandy depth of the balls.
   (c) Habitat—Rocks and seaweed and attached to
   the surface of rocks just above.

IV. Phyllophora

A. Phyllophora

1. Phylllophora species
   (a) Location—Beach, & Sunset Bay, & Squaw Island.
   (b) Habitat—In high tide pools.

2. Phyllophora species
   (a) Location—North Beach, & Sunset Bay, Squaw Island.
   (b) Habitat—On the surface of rocks in the upper littoral
   zone.
PHACOPTYACEAE

1. Ectocarpales

A. Leathesiaceae

1. Leathesia diffusa
   (a) Location—Sunset Bay, Squaw Island, Tunnel Point, and Codium Cove, Squaw Reef.
   (b) Habitat—Found on the surface of flat rocks above Ulva and on algae in the upper littoral zone.

B. Aspergersaceae

1. Spermastrea ulvaitea
   (a) Location—Squaw Reef, Squaw Island, S. Sunset Bay.
   (b) Habitat—Attached to Osmotilus in deep side pools in the upper littoral zone.

C. Heterochnodermaceae

1. Heterochydria obtusa
   (a) Location—Squaw Reef, Beach. S. Sunset Bay, Tunnel Point, Squaw Island.
   (b) Habitat—On flat rocks and shallow pools just above low tides mark.

D. Peronaceae

1. Peronaria 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. Ectocarpus

1. Ectocarpus
   (a) Location—Beach, Lighthouse reef, Tunnel Point, Squaw Island, Squaw Reef, and Sunset Bay.
   (b) Habitat—Attached to Ulva and on algae in the upper littoral zone.

F. Sirexaceae

1. Sirexophyllum
   (a) Location—Squaw Reef, Tunnel Point, and S. Sunset Bay.
   (b) Habitat—On flat rocks above low tide mark and in shallower tide pools in the upper littoral zone.
II. Desmarsettiales

A. Desmarsettiaeae

1. Desmarsettia ligulata

(a) Location—Sunset Point, Squaw Island, S. Sunset Bay.
(b) Habitat—Grows in the sublittoral zone among the base of rocky reefs in pools which are somewhat protected from the beating of the waves.

2. Desmarsettia aculeata

(a) Location—Tunnel Point and S. Slough.
(b) Habitat—Detached to rocks just below the low-tide mark.
(c) Habitat—Near D. ligulata, near water banks.

3. Desmarsettia latifrons

(a) Location—Sunset Bay.
(b) Habitat—Washed ashore and found lying on the beach.
(c) Habitat—Probably a deep-water and littoral zone.

4. Desmarsettia viridula

(a) Location—Old Jetty, and S. Slough.
(b) Habitat—Washed ashore.
(c) Habitat—On rocks, stone, and wood.

III. Chondariales

1. Callithamnium cyaneocirrus

(a) Location—Sunset Point, Squaw Island, S. Sunset Bay.
(b) Location—Sunset Bay, and Squaw Island.
(c) Habitat—In deep tidal pools growing on Cystoseira com(Collections)

IV. Laminariales

A. Laminariaeae

1. Laminaria saccharina

(a) Location—Sunset Bay, Squaw Island, Sunset Point, and.
(b) Location—Sunset Point, Callithamnium, and Squaw Island.
(c) Habitat—Along the base of rocks and rocky reefs in the lower littoral zone.

2. Laminaria cladosiphon

(a) Location—Sunset Point, Island, Sunset Point, S. Sunset Bay.
(b) Location—Squaw Island, Squaw Island, and Sunset Point.
(c) Habitat—Grows on the sides of rocks below low-tide mark.

3. Laminaria alfredii

(a) Location—Sunset Point, Squaw Island, S. Sunset Bay, and.
(b) Location—Sunset Point, Sunset Point, and Squaw Island.
(c) Habitat—Found with L. saccharina along the base of rocky reefs in the lower littoral zone.

4. Laminaria oenothera

(a) Location—Squaw Island and Mussel Reef.
(b) Habitat—Grows on the sides of rocks above low-tide mark.
(c) Habitat—On rocks and wood.

(d) Habitat—On rocks and wood.
(e) Habitat—On rocks and wood.
5. Casterina castanea
   (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.

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

B. Alariaceae

1. Phyaegophora californica
   (a) Location—Squaw Island, S. Sunset Bay, and Mussel Reef.
   (b) Habitat—In the sublittoral zone where it is beaten by waves in the sublittoral zone.

2. Alaria esculenta
   (a) Location—S. Sunset Bay.
   (b) Habitat—At the end of reefs in the littoral zone where it is beaten by waves during low tide.

3. Alaria valida
   (a) Location—Mussel Reef, Cedum Cove, Squaw Island, and S. Sunset Bay.
   (b) Habitat—On low tide line attached to the bases of rocks.

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

C. Lessoniaceae

1. Pectusora californica
   (a) Location—Squaw Island, Squaw Island, Mussel Reef and Squaw Cove, Rico, at ends of reefs where it is beaten by waves in the sublittoral zone.
   (b) Habitat—At the ends of rocky reefs where it is constantly being beaten by waves.

2. Lessoniaceae littoralis
   (a) Location—Squaw Island, Mussel Reef, and Tunnel Point.
   (b) Habitat—At the ends of rocks and reefs near Pectusora, where it is beaten by the waves.

5. Merocystis lanceolata
   (a) Location—Squaw Island, Squaw Island, Squaw Point, Cedum Cove, and Mussel Reef.
   (b) Habitat—In sublittoral zone along the base of rocky reefs.

6. Merocystis virgatus
   (c) Location—Beach, Lighthouse beach, Jetty, S. Sunset.
   (d) Habitat—Sublittoral zone—sometimes washed up on the beach.

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V. Fucales

A. Fucales

1. Fucus angriaceus (?)
   (a) Location—Muscle Reef.

2. Fucus furcatus
   (a) Location—Squaw Island.

3. Fucus evanescens
   (a) Location—Squaw Island.

4. Fucus evanescens
   (a) Location—Squaw Island.

5. Fucus evanescens
   (a) Location—Squaw Island.

6. Fucus evanescens
   (a) Location—Squaw Island.

7. Fucus evanescens
   (a) Location—Squaw Island.

8. Palvechiopsis nitente
   (a) Location—Sunset Bay.

9. Palvechiopsis nitente
   (b) Habitat—All Fucus found attached to rocks in the upper littoral zone.

B. Sargassum

1. Sargassum manubrum
   (a) Location—Sunset Bay, Lighthouse Beach, Squaw Island, Muscle Reef.
   (b) Habitat—Found in large deep tide pools in the sublittoral zone.

II. Rhodophytae

A. Rhodophytae

1. Rhodaphora strigosa
   (a) Location—Sunset Bay, Squaw Island, and Tunnel Point.
   (b) Habitat—Grows as a brown encrusting on rocks in the littoral zone.

2. Pteryphyra nitida
   (a) Location—Squaw Island, Lighthouse Beach, Sunset Bay.
   (b) Habitat—Growing attached to soil grass in the upper littoral zone.

3. Pteryphyra perforata
   (a) Location—Squaw Island, Tunnel Point.
   (b) Habitat—Attached to rocks in the upper littoral zone.

II. Nemalionaceae

A. Glossopteridaceae

1. Glossopteris angriacea

II. Nemalionaceae

A. Glossopteridaceae

1. Glossopteris angriacea

2. Glossopteris spinata

3. Glossopteris acuticaulis
III. Cryptonemiales

A. Dendrochirolella

1. *Cryptonemia striatula*
   - **Location:** Squaw Island, Sunset Bay, and Lighthouse Beach.
   - **Habitat:** Found in the intertidal zone attached to rocks where there is a great deal of wave action.

B. Rhizophyllidae

1. Polyides rotundus
   - **Location:** Beach, Lighthouse beach.
   - **Habitat:** Attached to the base of rocks along the beach where there is much wave action.

C. Corallimorphs

1. *Maladeia septentrionalis*
   - **Location:** Squaw Island, Lighthouse Beach, and Sunset Bay.
   - **Habitat:** Growing on sea grass in tide pools.

2. *Asparagaria tuberculosa*
   - **Location:** Sunset Bay, Squaw Island.
   - **Habitat:** Grows in deep tide pools.

3. *Corallina affinis*
   - **Location:** Sunset Bay, Squaw Island.
   - **Habitat:** Very deep tide pools.

IV. Ceramiales

A. Ceramiales

1. *Ceramium tetrasporum* (bulbiferum)
   - **Location:** Lighthouse Beach, Beach, South Slough, Sunset Bay, and Tunnel Point.
   - **Habitat:** Attached upon the beach attached to 
     *Heterocystis* stalks and to *Gracilaria*.

2. *Ceramium washingtoniensis*
   - **Location:** Sunset Bay.
   - **Habitat:** Deep tide pools.

3. *Ceramium pacificum* (ruber)
   - **Location:** Lighthouse Beach, Sunset Bay.
   - **Habitat:** Deep tide pools.

4. *Antithamnion pseudomelanos*
   - **Location:** South, Lighthouse beach.
   - **Habitat:** Attached to *Heterocystis* stalks.

5. *Antithamnion deflexum*
   - **Location:** Lighthouse beach.
   - **Habitat:** Attached to *Selenopodium*.
6. **Flaetethamnia postimana**
   (a) **Location**—Lighthouse Beach.
   (b) **Habitat**—Attached to *Nereocystis* stalks.

7. **Gygia thomsoni**
   (a) **Location**—Tunnel Point, Sunset Bay, Squaw Island.
   (b) **Habitat**—On flat rocks in the upper littoral zone.

8. **Ptilota californica** (correae)
   (a) **Location**—Sunset Bay, Lighthouse Beach, Squaw Island.
   (b) **Habitat**—Attached to rocks in the lower littoral zone.

9. **Pinnaria elegans** (?)
   (a) **Location**—Sunset, Lighthouse Beach.
   (b) **Habitat**—Floating and attached to rocks in the lower littoral zone.

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**B. Rhodomelaceae**

1. **Odonthalia semicrenata**
   (a) **Location**—Sunset Bay, Mussel Reef, and Squaw Island.
   (b) **Habitat**—Deep tide pools.

2. **Odonthalia flescens**
   (a) **Location**—Mussel Reef, Beach, and Codium Cove.
   (b) **Habitat**—Deep tide pools.

3. **Odonthalia lyalii**
   (a) **Location**—Beach, Codium Cove, Sunset, and Squaw Island.
   (b) **Habitat**—Attached on the ends of rocks 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. **Polypodiinae**
   (a) **Location**—Sunset Bay.
   (b) **Habitat**—Attached to rocks in high tide pools.

7. **Polypodiinae**
   (a) **Location**—Sunset Bay, South Slough.
   (b) **Habitat**—Attached to sand in tide pools and on rocks.

8. **Polypodiinae (californica)**
   (a) **Location**—Lighthouse Beach, Tunnel Point.
   (b) **Habitat**—On *Nereocystis* attached to rocks and in tide pools.

9. **Phorocladia demissoides**
   (a) **Location**—Lighthouse Beach.
   (b) **Habitat**—Attached to sand banks at the base of reefs in the lower littoral zone.

10. **Phorocladia granulosa**
    (a) **Location**—Tunnel Point.
    (b) **Habitat**—Attached to rocks in the upper littoral zone.

11. **Phorocladia fasciata**
    (a) **Location**—Lighthouse Beach, and Beach.
    (b) **Habitat**—On *Nereocystis* stalk and blades and on *Laminaria* awarangi blades.
C. Delissociriaceae

1. Bryophyllum griseum (17)
   a. Location—Squaw Island, Lighthouse Beach, and Sunset.
   b. Habitat—Attached to the sides of rocks in the lower littoral zone where it is exposed to wave action.

2. Frigia americana
   a. Location—Squaw Island, Sunset Bay, Tunnel Point, Beach, Mussel Reef, and Squaw Island.
   b. Habitat—Grows attached to sides of rocky reefs in the lower littoral zone.

3. Hithophyllum spinosum
   a. Location—Squaw Island, Sunset Bay, and Lighthouse Beach.
   b. Habitat—Grows attached to sides of rocky reefs in the lower littoral zone.

4. Hithophyllum mirabili
   a. Location—Squaw Island, Tunnel Point, Squaw Island, and Mussel Reef.
   b. Habitat—Planted upon the beach. Probably a deep sea form.

5. Hithophyllum intestinum
   a. Location—Lighthouse beach, Squaw Island, Tunnel Point.
   b. Habitat—Planted upon the beach.

V. Gigartinales

A. Gigartinales

1. Gigartina papillata (22)
   a. Location—Squaw Island, Sunset Bay, Tunnel Point, Squaw Island, and Mussel Reef.
   b. Habitat—Grows on flat rocks in very shallow pools in the upper littoral zone.

2. Gigartina radula plantago
   a. Location—Old Jetty, South Passage, Lighthouse Beach.
   b. Habitat—Attached to rocks in shallow pools in the lower littoral zone.

3. Gigartina radula
   a. Location—Squaw Island, Sunset Bay, Mussel Reef, and Tunnel Point.
   b. Habitat—Grows attached to sides of rocks in the lower littoral zone.

4. Gigartina complanata
   a. Location—Lighthouse Beach.
   b. Habitat—Floated; probably a deep water form.

5. Irinaria minima
   a. Location—Squaw Island, Lighthouse Beach, and Sunset Bay.
   b. Habitat—Lower littoral zone attached to rocks or submerged protected places.

6. Irinaria purpurea
   a. Location—Squaw Bay, Squaw, Ceramic Cove, and Squaw Island.
   b. Habitat—Eighth littoral region in shallow and exposed.
VII. Rhodymeniales

1. Plasmarium tonsor
   Location—Squaw Island, Sewat Bay, Tunnel Point.
   Habitat—Attached to rocks in the lower littoral zone.

2. Plasmarium (?)
   Location—Squaw Island.
   Habitat—Tide pools.

3. Plasmarium securoides
   Location—Squaw Island.
   Habitat—Attached to rocks in the lower littoral zone.

4. Gelasiniella cornifera
   Location—Squaw Island.
   Habitat—Tide pools.

5. Rhodymenia pulcherrima
   Location—Squaw Island, Sewat Bay, Tunnel Point.
   Habitat—Found floating but is probably a lower zone species.

6. Rhodymenia larpix
   Location—Tunnel Point, Squaw Island, Sewat Bay, Lighthouse Beach.
   Habitat—On flat rocks in the upper littoral zone in very shallow high tide pools.