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**A Guide to the Literature and Distributions
of the Marine Algae of the Pacific Coast
of North America**

—
by **E. YALE DAWSON**

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E. YALE DAWSON

INTRODUCTION

More than two decades have elapsed since the monographs by Setchell and Gardner of the Chlorophyceae and Phaeophyceae brought our knowledge of these groups of marine algae on the Pacific Coast of North America up to date for 1920 and 1925, respectively. Although these works are still highly authoritative and moderately complete, a considerable number of papers dealing with the green and brown algae of our coasts have subsequently appeared, creating changes and additions in these classes. The status of the Rhodophyceae, moreover, has long been unsatisfactory, for no assembly of the literature dealing with Pacific Coast species, nor complete survey of the species, has ever been accomplished. The existing information is badly scattered and largely inaccessible except to those few who have access to a large library and to collections such as those of the University of California. Aiming toward alleviating this situation, an attempt has been made to assemble here the published records of determinations and distributions of all the marine algae of the Pacific Coast of North America, with the exception of the Myxophyceae.

The appearance of three important works within the past year, each dealing with the algal flora of a different part of the Pacific Coast, has made this task immeasurably easier and more practicable. Smith's *Marine Algae of the Monterey Peninsula, California*, in treating of a large proportion of the species occurring on the Pacific Coast of the United States, has been of signal value in bringing together a great amount of information on these northern plants. The author's monograph of the *Marine Algae of*

the Gulf of California has brought that region up to date such that no further assembly nor review of its literature was necessary. The valuable work of Taylor: *Pacific Marine Algae of the Allan Hancock Expeditions to the Galapagos Islands* has provided abundant information on the algal floras of the Mexican and Central American coasts of which almost nothing was previously known.

Citation of all the references to any given species has not been possible, but the references cited include the most recent ones and will serve in each case as a key to the previous literature.

The limits of the "Pacific Coast of North America" are taken as the Aleutian Islands on the north and the Gulf of Panamá on the south. The coastwise distance between Attu Island and Panamá is nearly 6500 miles. For the sake of consistency, distribution records are cited from north to south.

La Jolla, California,

June 30, 1945.

LIST OF SPECIES

CHLOROPHYCEAE
(GREEN ALGAE)

Order **VOLVOCALES**

Fam. **Polyblepharidaceae**

STEPHANOPTERA GRACILIS (Artari) G. M. Smith
Smith, 1944
San Francisco Bay; Monterey, Calif.

DUNALIELLA SALINA (Dunal) Teodoresco
Smith, 1944
San Francisco; Monterey, Calif.

Fam. **Chlamydomonadaceae**

PLATYMONAS SUBCORDIFORMIS (Wille) Hazen
Smith, 1944
Monterey, Calif.

Order **TETRASPORALES**

Fam. **Chlorangiaceae**

COLLINSIELLA TUBERCULATA Setchell & Gardner
Smith, 1944
Vancouver Is., B. C. to Pacific Grove, Calif.

PRASINOCLOUDUS LUBRICUS Kuckuck
Smith, 1944
Monterey, Calif.

Order **ULOTRICHALES**

Fam. **Ulotrichaceae**

ULOTHRIX FLACCA (Dillwyn) Thuret
Setchell & Gardner, 1920
Alaska to California

ULOTHRIX IMPLEXA Kützing
Smith, 1944
Bering Sea to Monterey, Calif.

ULOTHRIX LAETEVIRENS (Kützing) Collins
Setchell & Gardner, 1920
Unalaska, Alaska to California

ULOTHRIX PSEUDOFLACCA f. MINOR Wille
Setchell & Gardner, 1920
Sitka, Alaska

ULOTHRIX PSEUDOFLACCA f. MAJOR Wille
Setchell & Gardner, 1920
San Francisco, Calif.

ULOTHRIX PSEUDOFLACCA f. MAXIMA Setchell & Gardner
Setchell & Gardner, 1920
San Francisco, Calif.

Fam. Chaetophoraceae

BULBOCOLEON PILIFEREM Pringsheim
Setchell & Gardner, 1920; Dawson, 1945B
Southern Calif.

PILINIA LUNATIAE f. SIMPLEX Thivy
Taylor, 1945
Panama City, Panamá

PILINIA MARITIMA f. PACIFICA Thivy
Taylor, 1945
Is. Clarion, Revilla Gigedo Arch.

PHAEOPHILIA DENDROIDES (Crouan) Batters
Taylor, 1945
Is. María Magdalena, Nayarit

PHAEOPHILIA ENGLERI Reinke
Taylor, 1945
Is. Clarion, Revilla Gigedo Arch.; Tangola-Tangola,
Oaxaca to Is. Taboga, Panamá

PHAEOPHILIA POLYMORPHA Jao
Jao, 1937
San Juan Is., Wash.

ENTOCLADIA CINGENS Setchell & Gardner
Setchell & Gardner, 1920
San Diego, Calif.

ENTOCLADIA CODICOLA Setchell & Gardner
Smith, 1944; Dawson, 1945B
Monterey Peninsula to La Jolla, Calif.

ENTOCLADIA CONDENSATA Setchell & Gardner
Dawson, 1944
Puerto Libertad, Sonora; Is. San Esteban, Gulf of Calif.

- ENTOCLADIA MEXICANA Setchell & Gardner
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif.; La Paz, Baja
Calif.
- ENTOCLADIA POLYSIPHONIAE Setchell & Gardner
Dawson, 1944
Guaymas, Sonora; La Paz, Baja Calif.
- ENTOCLADIA VIRIDIS Reinke
Smith, 1944
Moss Beach, San Mateo Co.; Monterey, Calif.
- ENDOPHYTON RAMOSUM Gardner
Smith, 1944
San Francisco; Monterey Peninsula, Calif.
- PSEUDODICTYON GENICULATUM Gardner
Smith, 1944
San Francisco; Pacific Grove, Calif.
- INTERNORETIA FREYEANA Setchell & Gardner
Setchell & Gardner, 1920
Friday Harbor, Wash.
- ULVELLA SETCHELLII Dangeard
Smith, 1944; *Ulvella Lens* in Setchell & Gardner, 1930
Pacific Grove, Calif.; Is. Guadalupe, Baja Calif.
- PSEUDOULVELLA APPLANATA Setchell & Gardner
Smith, 1944
Carmel, Calif.
- PSEUDOULVELLA CONSOCIATA Setchell & Gardner
Setchell & Gardner, 1920
San Francisco Bay at Alameda, Calif.
- PSEUDOULVELLA PROSTRATA (Gardner) Setchell & Gardner
Setchell & Gardner, 1920
San Francisco, Calif.
- PSEUDOPRINGSHEIMIA APICULATA Setchell & Gardner
Smith, 1944
San Francisco; Monterey, Calif.
- PRINGSHEIMIELLA MARCHANTAE (Setchell & Gardner)
Schmidt
Schmidt, 1935; *Pringsheimia Marchantae* in Dawson,
1944
La Paz, Baja Calif.

Fam. Trentepohliaceae

GOMONTIA POLYRHIZA (Lagerheim) Bornet & Flahault
Smith, 1944
Neah Bay, Wash.; Monterey, Calif.

TRENTEPOHLIA ODORATA (Wiggers) Wittrock
Sanborn & Doty, 1946
Coos Bay, Oregon

TRENTEPOHLIA ODORATA var. UMBRINA (Kützing) Hariot
Setchell & Gardner, 1920
San Pedro, Calif.

Order ULVALES**Fam. Ulvaceae**

MONOSTROMA AREOLATUM Setchell & Gardner
Setchell & Gardner, 1920
Sitka, Alaska

MONOSTROMA FRACTUM Jao
Jao, 1937
Turn Is., Wash.

MONOSTROMA FUSCUM (Postels & Ruprecht) Wittrock
Setchell & Gardner, 1920
Alaska to Puget Sound, Wash.

MONOSTROMA FUSCUM var. SPLENDENS (Ruprecht) Rosenvinge
Setchell & Gardner, 1920
Alaska to Vancouver Is., B. C.

MONOSTROMA FUSCUM var. BLYTTII (Areschoug) Collins
Setchell & Gardner, 1920
Vancouver Is., B. C.; Washington

MONOSTROMA GREVILLEI (Thuret) Wittrock
Setchell & Gardner, 1920
Unalaska, Alaska

MONOSTROMA GREVILLEI var. LUBRICUM (Kjellman) Collins
Setchell & Gardner, 1920
Sitka, Alaska

MONOSTROMA GREVILLEI var. VAHLII (J. Agardh) Rosen-
vinge
Setchell & Gardner, 1920
Kukak Bay; Sitka, Alaska

MONOSTROMA LATISSIMUM (Kützing) Wittrock
Setchell & Gardner, 1920
Vancouver, B. C. to central California

- MONOSTROMA ORBICULATUM Thuret
Setchell & Gardner, 1920
Central California
- MONOSTROMA QUATERNARIUM (Kützing) Desmazières
Setchell & Gardner, 1920
Washington to southern California
- MONOSTROMA ZOSTERICOLA Tilden
Smith, 1944
Vancouver Is., B. C.; Puget Sound, Wash.; Monterey
Peninsula, Calif.
- ENTEROMORPHA ACANTHOPHORA Kützing
Dawson, 1944
Gulf of Calif.
- ENTEROMORPHA CLATHRATA (Roth) Greville
Smith, 1944
Sitka, Alaska to Carmel, Calif.
- ENTEROMORPHA CRINITA (Roth) J. Agardh
Setchell & Gardner, 1920
Valdes, Alaska to San Diego, Calif.
- ENTEROMORPHA COMPRESSA (Linnaeus) Greville
Smith, 1944; Dawson, 1944
Bering Sea to central México; Gulf of Calif.
- ENTEROMORPHA ERECTA J. Agardh
Setchell & Gardner, 1920
Comox, Vancouver Is., B. C. to Santa Rosa Is., Calif.
- ENTEROMORPHA FLEXUOSA (Wulfen) J. Agardh
Setchell & Gardner, 1920; Taylor, 1945
Santa Barbara, Calif. to Port Parker, Costa Rica
- ENTEROMORPHA GROENLANDICA (J. Agardh) Setchell &
Gardner
Setchell & Gardner, 1920
Bering Sea to Unalaska, Alaska
- ENTEROMORPHA INTESTINALIS (Linnaeus) Link
Smith, 1944; Dawson, 1944
Kukak Bay, Alaska to La Paz, Baja Calif.; Gulf of
Calif.
- ENTEROMORPHA INTESTINALIS f. CYLINDRACEA J. Agardh
Setchell & Gardner, 1920
Alaska to México
- ENTEROMORPHA INTESTINALIS f. MAXIMA J. Agardh
Setchell & Gardner, 1920
Alaska to México

- ENTEROMORPHA INTESTINALIS f. CLAVATA J. Agardh
Setchell & Gardner, 1920
Alaska to México
- ENTEROMORPHA LINGULATA J. Agardh
Setchell & Gardner, 1920; Taylor, 1945
Is. Guadalupe, Baja Calif. to Balboa, Canal Zone
- ENTEROMORPHA MARGINATA J. Agardh
Setchell & Gardner, 1920
Vancouver Is., B. C. to Calif.
- ENTEROMORPHA MICROCOCCA Kützing
Smith, 1944
Dutch Harbor, Alaska to México
- ENTEROMORPHA MICROCCA f. SUBSALSA Kjellman
Setchell & Gardner, 1920
Skagway, Alaska to Puget Sound, Wash.
- ENTEROMORPHA MINIMA Nägeli
Smith, 1944
Dutch Harbor, Alaska to México
- ENTEROMORPHA PLUMOSA Kützing
Setchell & Gardner, 1920; 1930
Puget Sound, Wash.; San Francisco, Calif.; Is. Clarion,
Revilla Gigedo Arch.
- ENTEROMORPHA PROLIFERA (Müller) J. Agardh
Setchell & Gardner, 1920; Dawson, 1944
Alaska to Central America
- ENTEROMORPHA SALINA var. POLYCLADOS Kützing
Setchell & Gardner, 1920
San Francisco Bay, Calif.
- ENTEROMORPHA TORTA (Mertens) Reinbold
Setchell & Gardner, 1920; Jao, 1937
Friday Harbor, Wash.; San Diego, Calif.
- ENTEROMORPHA TUBULOSA Kützing
Smith, 1944; Dawson, 1945E
Sausalito, Calif. to Cabo Colnett, Baja Calif.
- ULVA ANGUSTA Setchell & Gardner
Smith, 1944; Dawson, 1944; Setchell & Gardner, 1930
Humboldt Co. to Carmel, Calif.; Is. Guadalupe, Baja
Calif. ?; Guaymas, Sonora
- ULVA CALIFORNICA Wille
Setchell & Gardner, 1920
San Diego Co., Calif.

- ULVA DACTYLIFERA Setchell & Gardner
Setchell & Gardner, 1920; Dawson, 1944
Southern Calif. to San Roque, Baja Calif.; southern
Gulf of Calif.
- ULVA EXPANSA (Setchell) Setchell & Gardner
Smith, 1944
Puget Sound, Wash. to La Paz, Baja Calif.?
- ULVA FENESTRATA Postels & Ruprecht
Setchell & Gardner, 1920
Sitka, Alaska to Puget Sound, Wash.
- ULVA LACTUCA Linnaeus
Smith, 1944; Dawson, 1944; Taylor, 1945
Bering Sea to Panamá
- ULVA LATISSIMA Linnaeus
Setchell & Gardner, 1920
Juneau, Alaska
- ULVA LINZA Linnaeus
Smith, 1944
Orca, Alaska to La Paz, Baja Calif.
- ULVA LOBATA (Kützinger) Setchell & Gardner
Smith, 1944; Taylor, 1945
San Francisco to San Diego, Calif.; Bahía Petatlán,
Guerrero
- ULVA RIGIDA C. Agardh
Smith, 1944; Dawson, 1944; Taylor, 1945
Uyak Bay, Alaska to La Paz, Baja Calif.; Gulf of Calif.;
Is. María Madre, Nayarit
- ULVA STENOPHYLLA Setchell & Gardner
Smith, 1944
Bollinas to Monterey, Calif.
- ULVA TAENIATA (Setchell) Setchell & Gardner
Smith, 1944; Dawson, 1945E
Coos Bay, Oregon to Carmel, Calif.; Punta Descanso;
Cabo Colnett, Baja Calif.
- ULVA VEXATA Setchell & Gardner
Setchell & Gardner, 1920
San Francisco, Calif.
- PERCURSARIA PERCURSA (C. Agardh) Rosenvinge
Setchell & Gardner, 1920
Unalaska, Alaska to San Francisco Bay, Calif.

Order **SCHIZOGONIALES**Fam. **Schizogoniaceae**

- PRASIOLA BOREALIS Reed
Setchell & Gardner, 1920
Unalaska, Kodiak and Baranof Is., Alaska
- PRASIOLA CALOPHYLLA (Carmichael) Meneghini
Setchell & Gardner, 1920
Whidbey Is., Wash.
- PRASIOLA DELICATULA Setchell & Gardner
Setchell & Gardner, 1920
Sitka, Alaska
- PRASIOLA MERIDIONALIS Setchell & Gardner
Smith, 1944
Friday Harbor, Wash. to Carmel, Calif.
- GAYELLA CONSTRICTA Setchell & Gardner
Smith, 1944
Friday Harbor, Wash.; Tomales Point; Monterey, Calif.
- GAYELLA POLYRHIZA Rosenvinge
Setchell & Gardner, 1920
Amaknak Is., Alaska

Order **CLADOPHORALES**Fam. **Cladophoraceae**

- RHIZOCLONIUM IMPLEXUM (Dillwyn) Kützing
Smith, 1944
Unalaska, Alaska to Carmel, Calif.
- RHIZOCLONIUM KERNERI Stockmayer
Setchell & Gardner, 1920; Taylor, 1945
Victoria, B. C.; Is. Clarion, Revilla Gigedo Arch.
- RHIZOCLONIUM RIPARIUM (Roth) Harvey
Smith, 1944
Unalaska, Alaska to Carmel, Calif.
- RHIZOCLONIUM TORTUOSUM (Dillwyn) Kützing
Smith, 1944
Alaska to Carmel, Calif.
- LOLA LUBRICA (Setchell & Gardner) A. et G. Hamel
Dawson, 1944; *Rhizoclonium lubricum* in Setchell &
Gardner, 1920; Taylor, 1945
Rocke Harbor, Wash. to Puerto Culebra, Costa Rica

- HORMISCIA DOLIIFERA Setchell & Gardner
Setchell & Gardner, 1920
San Francisco, Calif.
- HORMISCIA GRANDIS (Kylin) Setchell & Gardner
Setchell & Gardner, 1920
Unalaska, Alaska to Puget Sound, Wash.
- HORMISCIA PENICILLIFORMIS (Roth) Fries
Setchell & Gardner, 1920; *Urospora peniciliformis* in
Smith, 1944
Bering Sea to Carmel, Calif.
- HORMISCIA SPHAERULIFERA Setchell & Gardner
Setchell & Gardner, 1920
Whidbey Is., Wash.
- HORMISCIA TETRACILIATA Frye & Zeller
Setchell & Gardner, 1920
San Juan County, Wash.
- HORMISCIA VANCOUVERIANA (Tilden) Setchell & Gardner
Setchell & Gardner, 1920
Oak Bay, Vancouver Is., B. C.
- HORMISCIA WORMSKIOLDII (Mertens) Fries
Setchell & Gardner, 1920
Friday Harbor, Wash. to Gualala, Calif.
- CHAETOMORPHA AEREA (Dillwyn) Kützing
Smith, 1944; Dawson, 1944
Santa Cruz to San Diego, Calif.; northern Gulf of Calif.
- CHAETOMORPHA ANTENNINA (Bory) Kützing
Setchell & Gardner, 1920; Dawson, 1945B, 1945E;
Taylor, 1945
La Jolla, Calif. to Panamá
- CHAETOMORPHA CALIFORNICA Collins
Setchell & Gardner, 1920
Laguna Beach to La Jolla, Calif.
- CHAETOMORPHA CANNABINA (Areschoug) Kjellman
Setchell & Gardner, 1920
Alaska to Puget Sound, Wash.
- CHAETOMORPHA CLAVATA (C. Agardh) Kützing
Dawson, 1945E
Punta Descanso; Cabo Colnett, Baja Calif.
- CHAETOMORPHA CRASSA (C. Agardh) Kützing
Taylor, 1939
Bahía Magdalena, Baja Calif.

- CHAETOMORPHA MELANGONIUM* (Weber & Mohr) Kützing
Setchell & Gardner, 1920
Unalaska; Kodiak Is., Alaska
- CHAETOMORPHA TENUISSIMA* Jao
Jao, 1937
Friday Harbor, Wash.
- CHAETOMORPHA TORTA* (Farlow) McClatchie
Setchell & Gardner, 1920; Dawson, 1945B
Southern Calif.
- CLADOPHORA ALBIDA* (HUDSON) Kützing
Setchell & Gardner, 1920; Dawson, 1944
East Sound, Wash.; San Pedro, Calif.; Kino, Sonora
- CLADOPHORA AMPHIBIA* Collins
Setchell & Gardner, 1920
San Francisco Bay, Calif.
- CLADOPHORA BERTOLONII* var. *HAMOSA* (Kützing) Ardissonne
Smith, 1944
Pacific Grove, Calif.
- CLADOPHORA DELICATULA* Montagne
Smith, 1944; Dawson, 1944
Monterey Peninsula; San Diego, Calif.; Rio Mayo,
Sonora
- CLADOPHORA FLEXUOSA* (Griffiths) Harvey
Smith, 1944
Annette Is., Alaska to San Diego, Calif.
- CLADOPHORA GLAUDESCENS* (Griffiths) Harvey
Setchell & Gardner, 1920
Nanaimo, B. C. to Oakland, Calif.
- CLADOPHORA GRACILIS* (Griffiths) Kützing
Setchell & Gardner, 1920
Sitka, Alaska; Neah Bay, Wash.
- CLADOPHORA GRACILIS* f. *EXPANSA* Farlow
Taylor, 1945
Is. Clarion, Revilla Gigedo Arch.
- CLADOPHORA GRAMINEA* Collins
Smith, 1944; Dawson, 1944; 1945E
Santa Cruz, Calif. to Guaymas, Sonora
- CLADOPHORA HEMISPHERICA* Gardner
Smith, 1944
Monterey Peninsula, Calif.

- CLADOPHORA HESPERIA Setchell & Gardner
Dawson, 1944
Kino, Sonora to cape district, Baja Calif.
- CLADOPHORA HUTCHINSIAE (Dillwyn) Kützing
Setchell & Gardner, 1920
Vancouver Is., B. C.
- CLADOPHORA HUTCHINSIAE var. DISTANS (C. Agardh)
Kützing
Setchell & Gardner, 1920
West coast of Vancouver Is., B. C.
- CLADOPHORA LAETEVIRENS (Dillwyn) Kützing
Setchell & Gardner, 1920
Vancouver, B. C. and Straits of Juan de Fuca
- CLADOPHORA MACDOUGALII Howe
Dawson, 1944
Bahía San Felipe, Baja Calif.
- CLADOPHORA MICROCLADIOIDES Collins
Smith, 1944; Dawson, 1944; 1945E
Vancouver, B. C. to Gulf of Calif.
- CLADOPHORA MICROCLADIOIDES f. STRICTA Collins
Setchell & Gardner, 1920
San Diego, Calif.
- CLADOPHORA OVOIDEA Kützing
Smith, 1944
Santa Cruz to Monterey, Calif.
- CLADOPHORA PANAMENSIS Taylor
Taylor, 1945
Bahía Honda, Panamá
- CLADOPHORA PROLIFERA (Roth) Kützing
Taylor, 1945
Golfo Dulce, Costa Rica
- CLADOPHORA RUDOLPHIANA (C. Agardh) Kützing
Dawson, 1944
Guaymas, Sonora
- CLADOPHORA RUDOLPHIANA f. ERAMOSA Gardner
Setchell & Gardner, 1920; Dawson, 1944
San Francisco Bay, Calif.; Guaymas, Sonora
- CLADOPHORA STIMPSONII Harvey
Setchell & Gardner, 1920
Ucluet Inlet, B. C. to southern Calif.
- CLADOPHORA TIBURONENSIS Dawson
Dawson, 1944
Is. Tiburón, Gulf of Calif.

- CLADOPHORA TRICHOTOMA (C. Agardh) Kützing
Smith, 1944; Dawson, 1944; 1945E
Vancouver Is., B. C. to Punta Descanso, Baja Calif.;
La Paz, Baja Calif.?
- CLADOPHORA TRICHOTOMA f. ELONGATA Collins
Setchell & Gardner, 1920
Point Carmel, Calif.
- SPONGOMORPHA ARCTA (Dillwyn) Kützing
Setchell & Gardner, 1920
Bering Sea to Puget Sound, Wash.
- SPONGOMORPHA COALITA (Ruprecht) Collins
Smith, 1944
Unalaska, Alaska to Carmel, Calif.
- SPONGOMORPHA DURIUSCULA (Ruprecht) Collins
Setchell & Gardner, 1920
Unalaska; Karluk, Alaska
- SPONGOMORPHA HYSTRIX Stroemfelt
Setchell & Gardner, 1920
Agattu Is. to Sitka, Alaska
- SPONGOMORPHA MERTENSII (Ruprecht) Setchell & Gardner
Setchell & Gardner, 1920
Unalaska, Alaska to San Francisco, Calif.
- SPONGOMORPHA SAXATILIS (Ruprecht) Collins
Setchell & Gardner, 1920
Alaska to San Francisco, Calif.
- SPONGOMORPHA SAXATILIS var. CHAMISSONIS (Ruprecht)
Collins
Setchell & Gardner, 1920
Alaska to Washington
- SPONGOMORPHA SPINESCENS Kützing
Setchell & Gardner, 1920
Unalaska to Coos Bay, Oregon
- MICRODICTYON PALMERI Setchell
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.

Fam. **Valoniaceae**

- DICTYOSPHAERIA AUSTRALIS Setchell
Taylor, 1945
Is. Clarion; Is. Socorro, Revilla Gigedo Arch.

DICTYOSPHERIA VERSLUYSI Weber van Bosse
Setchell & Gardner, 1930; Dawson, 1944; Taylor, 1945
Is. Guadalupe, Baja Calif.; Is. Espiritu Santo, Gulf of
Calif.; Is. Socorro, Revilla Gigedo Arch.

CLADOPHOROPSIS ROBUSTA Setchell & Gardner
Dawson, 1944; Taylor, 1945
Is. Tortuga, Gulf of Calif.; Is. Isabel, Nayarit

BOODLEA COMPOSITA (Harvey & Hooker, f.) Brand
Taylor, 1945
Is. María Magdalena, Nayarit

VALONIOPSIS HANCOCKII Dawson
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif.

VALONIOPSIS PACHYNEMA (Martens) Børgesen
Dawson, 1944
Is. Angel de la Guarda to Is. Espiritu Santo, Gulf of
Calif.

SIPHONOCLOUDUS PUSILLOIDES Setchell & Gardner
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.

Fam. **Dasycladaceae**

ACETABULARIA PARVULA Solms-Laubach
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.

ACETABULARIA PARVULA var. AMERICANA Taylor
Taylor, 1945
Is. Socorro, Revilla Gigedo Arch.

NEOMERIS VANBOSSEAE Howe
Taylor, 1945
Is. Socorro, Revilla Gigedo Arch.

Order **CHLOROCOCCALES**

Fam. **Endosphaeraceae**

CHLOROCHYTRIUM INCLUSUM Kjellman
Smith, 1944
Sitka, Alaska to Carmel, Calif.

CHLOROCHYTRIUM PORPHYRAE Setchell & Gardner
Smith, 1944
Cape Flattery, Wash.; San Francisco; Monterey Penin-
sula, Calif.

CHLOROCHYTRIUM SCHMITZII Rosenvinge
Setchell & Gardner, 1920
Kodiak Is., Alaska

CODIOLUM GREGARIUM A. Braun
Setchell & Gardner, 1920
Friday Harbor, Wash.

CODIOLUM PETROCELIDIS Kuckuck
Smith, 1944
Whidbey Is., Wash.; San Francisco; Monterey, Calif.

CODIOLUM PUSILLUM f. SUBSESSILE Jao
Jao, 1937
Brown Is., Wash.

Order SIPHONALES

Fam. Halicystidaceae

HALICYSTIS OVALIS (Lyngbye) Areschoug
Smith, 1944
Vancouver Is., B. C. to Redondo, Calif.

Fam. Bryopsidaceae

BRYOPSIS CORTICULANS Setchell
Smith, 1944; Dawson, 1945B
Victoria, B. C. to La Jolla, Calif.

BRYOPSIS GALAPAGENSIS Taylor
Taylor, 1945
Is. Socorro; Is. Clarion, Revilla Gigedo Arch.

BRYOPSIS HYPNOIDES Lamouroux
Smith, 1944; Taylor, 1945
Victoria, B. C. to San Pedro, Calif.; Panamá City, Panamá

BRYOPSIS PENNATULA J. Agardh
Setchell & Gardner, 1920; Taylor, 1945
San Agustin, Oaxaca; Bahía Petatlán, Guerrero

BRYOPSIS PLUMOSA (Hudson) C. Agardh
Setchell & Gardner, 1920
Friday Harbor, Wash.

BRYOPSIS PLUMOSA var. PENNATA (Lamouroux) Børgesen
Dawson, 1944
Is. Tiburón, Gulf of Calif.

Fam. Derbesiaceae

DERBESIA LAMOUROUXII (J. Agardh) Solier
Setchell & Gardner, 1920
On the coast near Tijuana, Baja Calif.

DERBESIA MARINA (Lyngbye) Kjellman
Smith, 1944
Sitka, Alaska to San Diego, Calif.

DERBESIA PACIFICA Jao
Jao, 1937
Turn Is., Wash.

DERBESIA VAUCHERIAEFORMIS (Harvey) J. Agardh
Jao, 1937
Whidbey, Is., Wash.

Fam. Vaucheriaceae

VAUCHERIA LITORIA Bang & C. Agardh
Jao, 1937
San Juan Is., Wash.

Fam. Phyllosiphonaceae

OSTREOBIUM QUEKETTII Bornet & Flahault
Jao, 1937; Taylor, 1945
Puget Sound, Wash.; Is. Clarion, Revilla Gigedo Arch.

OSTREOBIUM REINECKEI Bornet
Setchell & Gardner, 1930; Taylor, 1945
Is. Guadalupe, Baja Calif.; Is. Clarion, Revilla Gigedo Arch.

Fam. Caulerpaceae

CAULERPA PELTATA (Turner) Lamouroux
Taylor, 1945
Tangola-Tangola, Oaxaca

CAULERPA PINNATA f. PECTINATA (Kützing) Weber van Bosse
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif.

CAULERPA RACEMOSA var. CHEMNITZIA (Esper) Weber van Bosse
Dawson, 1944
Bahía Agua Verde, Baja Calif.

CAULERPA RACEMOSA var. CLAVIFERA f. MACROPHYSA (Kützing) Weber van Bosse
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.

- CAULERPA RACEMOSA var. LAETEVIRENS f. CYLINDRACEAE
(Sonder) Weber van Bosse
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.
- CAULERPA RACEMOSA var. LAETEVIRENS f. TYPICA Weber van
Bosse
Setchell & Gardner, 1930; Taylor, 1945
Is. Guadalupe, Baja Calif.; Is. Clarion, Revilla Gigedo
Arch.
- CAULERPA RACEMOSA var. OCCIDENTALIS (C. Agardh) Børgesen
Taylor, 1945
Is. Clarion, Revilla Gigedo Arch.
- CAULERPA RACEMOSA var. UVIFERA (Turner) Weber van
Bosse
Dawson, 1944
Is. Espíritu Santo, Gulf of Calif.
- CAULERPA SERTULARIOIDES (Gmelin) Howe
Dawson, 1944; Taylor, 1945
Is. Espíritu Santo, Gulf of Calif.; Tangola-Tangola,
Oaxaca
- CAULERPA VANBOSSEAE Setchell & Gardner
Dawson, 1944
Is. Angel de la Guarda to Is. Espíritu Santo, Gulf of
Calif.

Fam. **Codiaceae**

- CODIUM AMPLIVESICULATUM Setchell & Gardner
Dawson, 1944
Pond Is., Gulf of Calif.
- CODIUM ANASTOMOSANS Setchell & Gardner
Dawson, 1944
Is. Angel de la Guarda to Is. Tiburón, Gulf of Calif.
- CODIUM CONJUNCTUM Setchell & Gardner
Dawson, 1944
Is. Tortuga, Gulf of Calif.
- CODIUM CUNEATUM Setchell & Gardner
Dawson, 1944
Vicinity of Smith Is., Gulf of Calif.
- CODIUM DECORTICATUM (Woodward) Howe
Setchell, 1933; Taylor, 1939
Bahía Magdalena, Baja Calif. ?

- CODIUM FERNANDEZIANUM Setchell
Taylor, 1945
Bahía Santa María, Baja Calif.
- CODIUM FRAGILE (Suringar) Hariot
Smith, 1944; Taylor, 1945; Dawson, 1945E
Alaska to Puerto San Bartolomé, Baja Calif.
- CODIUM ISABELAE Taylor
Taylor, 1945
Is. Clarion, Revilla Gigedo Arch.
- CODIUM LONGIRAMOSUM Setchell & Gardner
Dawson, 1944; Taylor, 1945
Pond Is., Gulf of Calif.; Is. Clarion; Is. Socorro, Revilla
Gigedo Arch.; Bahía Petatlán, Guerrero
- CODIUM MACDOUGALII Dawson
Dawson, 1944
Puerto Libertad, Sonora
- CODIUM PALMERI Dawson
Dawson, 1945C
Is. Guadalupe, Baja Calif.
- CODIUM SETCHELLII Gardner
Smith, 1944; Taylor, 1945
Sitka, Alaska to Carmel, Calif.; Is. Jacarita, Panamá ?
- CODIUM SIMULANS Setchell & Gardner
Setchell & Gardner, 1930; Dawson, 1944; 1945C
La Jolla, Calif. to Is. Clarion, Revilla Gigedo Arch.;
Gulf of Calif.
- CODIUM RITTERI Setchell & Gardner
Setchell & Gardner, 1920
Kodiak Is., Alaska to Vancouver Is., B. C.
- HALIMEDA DISCOIDEA Decaisne
Dawson, 1944; Taylor, 1945
Is. Angel de la Guarda, Gulf of Calif. to Golfo Dulce,
Costa Rica
- HALIMEDA OPUNTIA (Linnaeus) Lamouroux
Setchell & Gardner, 1930; Taylor, 1945
Is. Guadalupe, Baja Calif.; Clarion, Revilla Gigedo Arch.
- HALIMEDA TUNA (Ellis & Solander) Lamouroux
Taylor, 1945
Is. Clarion, Revilla Gigedo Arch.
- CHLORODESMIS MEXICANA Taylor
Taylor, 1945; *Chlorodesmis comosa* in Setchell & Gard-
ner, 1930
Is. Guadalupe, Baja Calif. to Tangola-Tangola, Oaxaca

PHAEOPHYCEAE

(BROWN ALGAE)

Order ECTOCARPALES

Fam. Ectocarpaceae

- PYLAIELLA GARDNERI Collins
Smith, 1944
San Francisco to Carmel, Calif.
- PYLAIELLA LITTORALIS (Linnaeus) Kjellman
Smith, 1944
Bering Sea to San Pedro, Calif.
- PYLAIELLA TENELLA Setchell & Gardner
Smith, 1944
Neah Bay, Wash.; Monterey, Calif.
- PYLAIELLA UNILATERALIS Setchell & Gardner
Setchell & Gardner, 1925
Coos Bay, Oregon
- PYLAIELLA WASHINGTONENSIS Jao
Jao, 1937
Seattle, Wash.
- ECTOCARPUS ACUMINATUS Saunders
Smith, 1944
Pacific Grove to San Pedro, Calif.
- ECTOCARPUS ACUTUS Setchell & Gardner
Smith, 1944
Puget Sound to Carmel, Calif.
- ECTOCARPUS AFFINIS Setchell & Gardner
Setchell & Gardner, 1925
Sitka, Alaska
- ECTOCARPUS BREVIARTICULATUS J. Agardh
Setchell & Gardner, 1925; 1930
Is. Guadalupe, Baja Calif.; San Agustin, Oaxaca
- ECTOCARPUS BRYANTII Setchell & Gardner
Dawson, 1944
La Paz, Baja Calif.
- ECTOCARPUS CHANTRANSIOIDES Setchell & Gardner
Setchell & Gardner, 1925
Santa Monica, Calif.

- ECTOCARPUS CHITONICOLA Saunders
Smith, 1944
Monterey Peninsula, Calif.
- ECTOCARPUS COMMENSALIS Setchell & Gardner
Smith, 1944
Monterey Peninsula, Calif.
- ECTOCARPUS CONFERVOIDES (Roth) Le Jolis
Setchell & Gardner, 1925
Yakutat Bay, Alaska to Whidbey Is., Wash.
- ECTOCARPUS CONFERVOIDES f. PARVUS (Saunders) Setchell & Gardner
Setchell & Gardner, 1925
San Francisco to San Diego, Calif.
- ECTOCARPUS CONFERVOIDES f. PYGMAEUS (Areschoug) Kjellman
Smith, 1944; Dawson, 1945E
Shumagin Is., Alaska to Carmel, Calif.; Punta Descanso, Baja Calif.
- ECTOCARPUS CONFERVOIDES f. TYPICUS Kuckuck
Setchell & Gardner, 1925
Juneau, Alaska to San Francisco, Calif.
- ECTOCARPUS CORTICULATUS Saunders
Smith, 1944
Popof Is., Alaska to San Pedro, Calif.
- ECTOCARPUS CYLINDRICUS Saunders
Smith, 1944
Monterey Peninsula, Calif.
- ECTOCARPUS CYLINDRICUS f. CODIOPHILUS Setchell & Gardner
Smith, 1944; Dawson, 1945B
Monterey Peninsula; La Jolla, Calif.
- ECTOCARPUS DUCHASSAINGIANUS Grunow
Setchell & Gardner, 1930; Taylor, 1945
Is. Guadalupe, Baja Calif.; Is. María Magdalena, Nayarit; Is. Socorro, Revilla Gigedo Arch.
- ECTOCARPUS ELLIPTICUS Saunders
Smith, 1944
Monterey Peninsula, Calif.
- ECTOCARPUS ENSENADANUS Gardner
Gardner, 1940
Ensenada, Baja Calif.
- ECTOCARPUS ERAMOSUS Setchell & Gardner
Setchell & Gardner, 1925
Tomales Bay, Calif.

ECTOCARPUS FLAGELLIFERUS Setchell & Gardner
Setchell & Gardner, 1925
Sitka, Alaska

ECTOCARPUS FLOCCULIFORMIS Setchell & Gardner
Setchell & Gardner, 1925
La Jolla, Calif.

ECTOCARPUS FRUCTUOSUS Setchell & Gardner
Setchell & Gardner, 1925
Moss Beach, San Mateo Co., Calif.

ECTOCARPUS GLOBIFER Kützing
Setchell & Gardner, 1925
San Pedro to La Jolla, Calif.

ECTOCARPUS GONODIODES Setchell & Gardner
Smith, 1944; Dawson, 1944
Carmel, Calif.; Smith Is., Gulf of Calif.

ECTOCARPUS GRANULOSIDES Setchell & Gardner
Smith, 1944; Dawson, 1945B
Monterey to La Jolla, Calif.

ECTOCARPUS GRANULOSIDES var. PYGMAEUS Setchell & Gardner
Setchell & Gardner, 1937
Is. San Martin, Baja Calif.

ECTOCARPUS GRANULOSUS (J. E. Smith) C. Agardh
Smith, 1944; Dawson, 1945B; 1945E
Puget Sound, Wash. to Punta Descanso, Baja Calif.

ECTOCARPUS HANCOCKII Dawson
Dawson, 1944
Turner's Is., Gulf of Calif.

ECTOCARPUS HEMISPHERICUS Saunders
Setchell & Gardner, 1925
San Pedro to San Diego, Calif.

ECTOCARPUS HEMISPHERICUS f. MINOR Saunders
Setchell & Gardner, 1925; Dawson, 1945B
Southern Calif.

ECTOCARPUS ISOPODICOLA Dawson
Dawson, 1946
Newport Bay, Calif.

ECTOCARPUS LUTEOLUS Sauvageau
Setchell & Gardner, 1925
San Francisco, Calif.

- ECTOCARPUS MESOGLOIAE Setchell & Gardner
Smith, 1944
Carmel, Calif.
- ECTOCARPUS MITCHELLAE Harvey
Setchell & Gardner, 1925; Dawson, 1944
Southern Calif. to San Jose del Cabo, Baja Calif.; Punta
Peñasco, Sonora
- ECTOCARPUS MUCRONATUS Saunders
Setchell & Gardner, 1925; Dawson, 1944
Vancouver Is., B. C. to San Pedro, Calif.; Punta Peñ-
asco, Sonora
- ECTOCARPUS OVIGER Harvey
Smith, 1944
Puget Sound to Carmel, Calif.
- ECTOCARPUS PARKSII Setchell & Gardner
Setchell & Gardner, 1925
San Francisco Bay, Calif.
- ECTOCARPUS SAUNDERSII Setchell & Gardner
Smith, 1944
Monterey Peninsula, Calif.
- ECTOCARPUS SILICULOSUS (Dillwyn) Lyngbye
Setchell & Gardner, 1925; Sanborn & Doty, 1946
Coos Bay, Oregon to San Francisco Bay, Calif.
- ECTOCARPUS SILICULOSUS f. SUBULATUS (Kützinger) Setchell &
Gardner
Setchell & Gardner, 1925
San Francisco Bay, Calif.
- ECTOCARPUS SIMULANS Setchell & Gardner
Smith, 1944
Monterey, Calif.
- ECTOCARPUS SOCIALIS Setchell & Gardner
Setchell & Gardner, 1925; Dawson, 1945B
Southern Calif.
- ECTOCARPUS SONORENSIS Dawson
Dawson, 1944
Guaymas, Sonora
- ECTOCARPUS TAONIAE Setchell & Gardner
Setchell & Gardner, 1925
San Pedro, Calif.
- ECTOCARPUS TERMINALIS Kützinger
Setchell & Gardner, 1925
Unalaska, Alaska to Laguna Beach, Calif.

- ECTOCARPUS TOMENTOSUS (Hudson) Lyngbye
Smith, 1944
Kodiak Is., Alaska to Laguna Beach, Calif.
- ECTOCARPUS VARIABILIS (Saunders) G. M. Smith
Smith, 1944; Dawson, 1945E; *Ectocarpus confervoides*
f. *variabilis* in Dawson, 1944
Puget Sound, Wash. to Punta Descanso, Baja Calif.;
Is. Tiburón, Gulf of Calif.
- STREBLONEMA AECIDIOIDES f. PACIFICUM Setchell & Gardner
Setchell & Gardner, 1925
Neah Bay, Wash.
- STREBLONEMA ANOMALUM Setchell & Gardner
Smith, 1944
Monterey; San Pedro, Calif.
- STREBLONEMA CODICOLA Setchell & Gardner
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.
- STREBLONEMA CORYMBIFERUM Setchell & Gardner
Smith, 1944
Monterey; San Pedro, Calif.
- STREBLONEMA DESMARESTIAE Gardner
Gardner, 1940
San Juan Is., Wash.
- STREBLONEMA EVAGATUM Setchell & Gardner
Smith, 1944
Monterey, Calif.
- STREBLONEMA INVESTIENS (Collins) Setchell & Gardner
Setchell & Gardner, 1925; Dawson, 1945B
San Pedro to La Jolla, Calif.
- STREBLONEMA IRREGULARE Saunders
Setchell & Gardner, 1925
Sitka, Alaska
- STREBLONEMA JOHNSTONAE Setchell & Gardner
Setchell & Gardner, 1925
San Pedro, Calif.
- STREBLONEMA MINUTISSIUM Saunders
Setchell & Gardner, 1925
Sitka, Alaska
- STREBLONEMA MYRIONEMATOIDES Setchell & Gardner
Setchell & Gardner, 1925
Moss Beach, San Mateo Co., Calif.

STREBLONEMA PACIFICUM Saunders
Setchell & Gardner, 1925
Yakutat Bay, Alaska to San Francisco Bay, Calif.

STREBLONEMA PENETRALE Setchell & Gardner
Smith, 1944
Pacific Grove, Calif.

STREBLONEMA PORPHYRAE Setchell & Gardner
Smith, 1944
Monterey Peninsula, Calif.

STREBLONEMA RUGOSUM Setchell & Gardner
Setchell & Gardner, 1925
Friday Harbor, Wash.

STREBLONEMA SCABIOSUM Setchell & Gardner
Setchell & Gardner, 1925
San Francisco, Calif.

STREBLONEMA TRANSFIXUM Setchell & Gardner
Setchell & Gardner, 1925
San Pedro, Calif.

STREBLONEMA VORAX Setchell & Gardner
Setchell & Gardner, 1925
Sitka, Alaska

Fam. Ralfsiaceae

RALFSIA CALIFORNICA Setchell & Gardner
Setchell & Gardner, 1925; Dawson, 1944; Taylor, 1945
Central Calif.; Is. Tiburón to Is. Espíritu Santo, Gulf of
Calif.; Bahía Tenacatita, Jalisco

RALFSIA CLAVATA (Carmichael) Crouan
Setchell & Gardner, 1925
Unalaska Bay, Alaska

RALFSIA FUNGIFORMIS (Gunnerus) Setchell & Gardner
Setchell & Gardner, 1925; Sanborn & Doty, 1946
Bering Sea to Coos Bay, Oregon

RALFSIA HANCOCKII Dawson
Dawson, 1944
San Jose del Cabo, Baja Calif.

RALFSIA HESPERIA Setchell & Gardner
Smith, 1944
Carmel; Corona del Mar, Calif.

RALFSIA OCCIDENTALIS Hollenberg
Taylor, 1945
Is. Socorro, Revilla Gigedo Arch.

- RALFSIA PACIFICA* Hollenberg (ms)
Smith, 1944; Dawson, 1944
Unalaska, Alaska to Baja Calif.; northern Gulf of Calif.
- HAPTEROPHYCUS CANALICULATUS* Setchell & Gardner
Hollenberg, 1941
Redondo, Calif. to Punta Banda, Baja Calif.
- LITHODERMA FATISCENS* Areschoug
Setchell & Gardner, 1925
Bering Sea; Unalaska, Alaska
- HAPALOSPONGIDION GELATINOSUM* Saunders
Hollenberg, 1942; Smith, 1944
Carmel, Calif. to Punta Banda, Baja Calif.; Bahía Petatlán, Guerrero

Fam. *Elachistaceae*

- HALOTHRIX LUMBRICALIS* (Kützing) Reinke
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.
- ELACHISTEA FUCICOLA* (Vellely) Areschoug
Setchell & Gardner, 1925
Sitka, Alaska to Coos Bay, Oregon
- ELACHISTEA LUBRICA* Ruprecht
Setchell & Gardner, 1925
Prince William Sound to Wrangell, Alaska
- GONODIA JOHNSTONII* Setchell & Gardner
Dawson, 1944
Is. San Marcos, Gulf of Calif.
- GONODIA MARCHANTAE* Setchell & Gardner
Dawson, 1944
La Paz, Baja Calif.

Fam. *Sphacelariaceae*

- SPHACELARIA BREVICORNE* Setchell & Gardner
Dawson, 1944; Setchell & Gardner, 1925
La Paz and vicinity, Baja Calif.
- SPHACELARIA CALIFORNICA* Sauvageau
Setchell & Gardner, 1925
San Pedro to San Diego, Calif.
- SPHACELARIA DIDICHOTOMA* Saunders
Smith, 1944
Monterey to southern Calif.

SPHACELARIA FURCIGERA Kützing
Setchell & Gardner, 1930; Dawson, 1944
Is. Tiburón, Gulf of Calif.; Is. Guadalupe; La Paz,
Baja Calif.

SPHACELARIA HANCOCKII Dawson
Dawson, 1944
Turner's Is., Gulf of Calif.; San Jose del Cabo, Baja
Calif.

SPHACELARIA MASONII Setchell & Gardner
Setchell & Gardner, 1930
Is. Clarion, Revilla Gigedo Arch.

SPHACELARIA MEXICANA Taylor
Taylor, 1945
Is. Socorro, Revilla Gigedo Arch.

SPHACELARIA NOVAE-HOLLANDIAE Sonder
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.

SPHACELARIA RACEMOSA Greville
Setchell & Gardner, 1925
Bering Sea to Whidbey Is., Wash.

SPHACELARIA SUBFUSCA Setchell & Gardner
Setchell & Gardner, 1925
Sitka, Alaska to Redondo, Calif.

Order **CUTLERIALES**

Fam. **Cutleriaceae**

CUTLERIA HANCOCKII Dawson
Dawson, 1944
Is. Tiburón, Gulf of Calif.

Order **TILOPTERIDALES**

Fam. **Tilopteridaceae**

MASONOPHYCUS PARADOXA Setchell & Gardner
Setchell & Gardner, 1930
Is. Clarion, Revilla Gigedo Arch.

Order **DICTYOTALES**Fam. **Dictyotaceae**

- DICTYOTA BINGHAMIAE** J. Agardh
Setchell & Gardner, 1925; Taylor, 1945
Southern Calif. to Bahía San Bartolomé, Baja Calif.
Is. Secas, Panamá
- DICTYOTA CONCRESCENS** Taylor
Taylor, 1945
Cabo San Lazaro, Baja Calif.
- DICTYOTA CRENULATA** J. Agardh
Dawson, 1944; Taylor, 1945
Cape district, Baja Calif. to Puerto Culebra, Costa Rica
- DICTYOTA CRIBROSA** Setchell & Gardner
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.
- DICTYOTA DIVARICATA** Lamouroux, prox.
Taylor, 1945
Is. Socorro, Revilla Gigedo Arch.; Bahía Tenacatita,
Jalisco
- DICTYOTA FLABELLATA** (Collins) Setchell & Gardner
Smith, 1944; Taylor, 1945
Monterey to La Jolla, Calif.; Puerto Culebra, Costa
Rica; Is. Secas, Panamá
- DICTYOTA HESPERIA** Setchell & Gardner
Dawson, 1944
Northern Gulf of Calif.
- DICTYOTA JOHNSTONII** Setchell & Gardner
Dawson, 1944
Northern Gulf of Calif.
- DICTYOTA MASONII** Setchell & Gardner
Setchell & Gardner, 1930
Is. Clarion, Revilla Gigedo Arch.
- DICTYOTA VIVESII** Howe
Dawson, 1944; Taylor, 1945
Punta Gorda; Cabo San Lazaro, Baja Calif.; Is. María
Magdalena, Nayarit
- DICTYOPTERIS DELICATULA** Lamouroux
Taylor, 1939; 1945; *Neurocarpus delicatula* in Setchell
& Gardner, 1925
Is. Clarion; Is. Socorro, Revilla Gigedo Arch.; Clipper-
ton Is.

DICTYOPTERIS JOHNSTONEI Gardner
Gardner, 1940
Santa Catalina Is., Calif.

DICTYOPTERIS ZONARIOIDES Farlow
Neurocarpus zonarioides in Setchell & Gardner, 1925;
Dawson, 1944
Southern Calif. to San Jose del Cabo, Baja Calif.; north-
ern Gulf of Calif.

TAONIA LENNEBACKERAE Farlow
Setchell & Gardner, 1925; Taylor, 1945
Southern Calif. to Bahía San Bartolomé, Baja Calif.

SYRINGODERMA ABYSSICOLA (Setchell & Gardner) Levring
Levring, 1940; *Chlanidophora abyssicola* in Setchell &
Gardner, 1925
San Juan Is., Wash.

ZONARIA FARLOWII Setchell & Gardner
Setchell & Gardner, 1925; 1930; Taylor, 1945
Southern Calif. to Bahía Santa María, Baja Calif.

POCOCKIELLA VARIEGATA (Lamouroux) Papenfuss
Taylor, 1945; *Zonaria variegata* in Taylor, 1939
Is. Clarion; Is. Socorro, Revilla Gigedo Arch.; Clipper-
ton Is.

PADINA DURVILLAEI Bory
Dawson, 1944; Taylor, 1945
Is. Cedros, Baja Calif. to Panamá

PADINA CAULESCENS Thivy
Taylor, 1945
Is. María Magdalena, Nayarit

PADINA CRISPATA Thivy
Taylor, 1945
Is. María Madre, Nayarit; Golfo Dulce, Costa Rica;
Bahía Honda, Panamá

PADINA MEXICANA Dawson
Dawson, 1944
Turner's Is., Gulf of Calif.

PADINA TETRASTROMATICA Hauck
Setchell & Gardner, 1930
Is. María Madre, Nayarit ?

Order **CHORDARIALES**Fam. **Corynophloeaceae**

PETROSPONGIUM RUGOSUM (Okamura) Setchell & Gardner
Smith, 1944
San Mateo Co. to San Diego, Calif.

LEATHESIA DIFFORMIS (Linnaeus) Areschoug
Smith, 1944
Bering Sea to San Pedro, Calif.

LEATHESIA NANA Setchell & Gardner
Smith, 1944
Monterey Peninsula, Calif.

Fam. **Myrionemataceae**

MYRIONEMA ATTENUATUM Setchell & Gardner
Smith, 1944
Monterey Peninsula, Calif.

MYRIONEMA BALTICUM f. CALIFORNICUM Setchell & Gardner
Smith, 1944
Monterey Peninsula, Calif.

MYRIONEMA BALTICUM f. PEDICELLATUM Setchell & Gardner
Setchell & Gardner, 1925
Point Carmel, Calif.

MYRIONEMA COMPSONEMATOIDES Setchell & Gardner
Setchell & Gardner, 1925
Friday Harbor, Wash.

MYRIONEMA CORUNNAE f. ANGULATUM Setchell & Gardner
Setchell & Gardner, 1925
San Francisco, Calif.

MYRIONEMA CORUNNAE f. STERILE Setchell & Gardner
Smith, 1944
Carmel, Calif.

MYRIONEMA CORUNNAE f. UNIFORME Setchell & Gardner
Setchell & Gardner, 1925
San Mateo Co., Calif.

MYRIONEMA FOECUNDUM f. RAMULOSUM Setchell & Gardner
Setchell & Gardner, 1925
Friday Harbor, Wash.

- MYRIONEMA FOECUNDUM f. SIMPLICISSIMUM Setchell & Gardner
Setchell & Gardner, 1925
Kodiak Is., Alaska to central California
- MYRIONEMA FOECUNDUM f. SUBULATUM Setchell & Gardner
Setchell & Gardner, 1925
San Francisco, Calif.
- MYRIONEMA GLOBOSUM f. AFFINE Setchell & Gardner
Setchell & Gardner, 1925
Sitka, Alaska to Point Carmel, Calif.
- MYRIONEMA MINUTISSIMUM Setchell & Gardner
Setchell & Gardner, 1925
San Francisco, Calif.
- MYRIONEMA OBSCURUM Setchell & Gardner
Setchell & Gardner, 1925
Moss Beach, San Mateo Co., Calif.
- MYRIONEMA PHYLLOPHYLLUM Setchell & Gardner
Setchell & Gardner, 1925
Sitka, Alaska
- MYRIONEMA PRIMARIUM Setchell & Gardner
Smith, 1944
Alaska to Carmel, Calif.
- MYRIONEMA SETIFERUM Setchell & Gardner
Setchell & Gardner, 1925
Sitka, Alaska
- MYRIONEMA STRANGULANS Greville
Smith, 1944
Sitka, Alaska to Carmel, Calif.
- COMPSONEMA CONIFERUM Setchell & Gardner
Smith, 1944
Monterey Peninsula, Calif.
- COMPSONEMA DUBIUM Setchell & Gardner
Smith, 1944
Monterey Peninsula, Calif.
- COMPSONEMA FASCICULATUM Setchell & Gardner
Smith, 1944
Pacific Grove, Calif.
- COMPSONEMA FRUCTUOSUM Setchell & Gardner
Setchell & Gardner, 1925
Tomaes Bay, Calif.
- COMPSONEMA IMMIXTUM Setchell & Gardner
Dawson, 1944
Is. Partida, Gulf of Calif.

- COMPSONEMA INTRICATUM Setchell & Gardner
Smith, 1944
Carmel, Calif.
- COMPSONEMA MYRIONEMATOIDES Setchell & Gardner
Smith, 1944
Pacific Grove, Calif.
- COMPSONEMA NUMMULOIDES Setchell & Gardner
Setchell & Gardner, 1925
Moss Beach, San Mateo Co., Calif.
- COMPSONEMA PUSILLUM Setchell & Gardner
Smith, 1944
Carmel, Calif.
- COMPSONEMA RAMULOSUM Setchell & Gardner
Smith, 1944
Carmel, Calif.
- COMPSONEMA SECUNDUM Setchell & Gardner
Smith, 1944
Moclips, Wash. to Carmel, Calif.
- COMPSONEMA SERPENS Setchell & Gardner
Smith, 1944
Monterey Peninsula, Calif.
- COMPSONEMA SESSILE Setchell & Gardner
Setchell & Gardner, 1925
Neah Bay, Wash.
- COMPSONEMA SPECIOSUM f. PILIFERUM Setchell & Gardner
Setchell & Gardner, 1925
Moclips, Wash.
- COMPSONEMA SPORANGIIFERUM Setchell & Gardner
Setchell & Gardner, 1925
Neah Bay, Wash.
- COMPSONEMA STREBLONEMATOIDES Setchell & Gardner
Setchell & Gardner, 1925
Tomales Bay, Calif.
- COMPSONEMA TENUE Setchell & Gardner
Setchell & Gardner, 1925
Sitka, Alaska

Fam. Chordariaceae

- AEGIRA VIRESCENS (Carmichael) Setchell & Gardner
Setchell & Gardner, 1925; Dawson, 1945
Shumagin Is. to Sitka, Alaska; La Jolla, Calif.

HAPLOGLOIA ANDERSONII (Farlow) Levring
Smith, 1944; Dawson, 1945E
Sitka, Alaska to Cabo Colnett, Baja Calif.

HAPLOGLOIA KUCKUCKII Kylin
Kylin, 1940
Sitka, Alaska to Friday Harbor, Wash.

CHORDARIA DISSESSA Setchell & Gardner
Setchell & Gardner, 1925
Orcas Is., Wash.

CHORDARIA FLAGELLIFORMIS (Müller) C. Agardh
Setchell & Gardner, 1925
Bering Sea to Sitka, Alaska

CHORDARIA GRACILIS Setchell & Gardner
Setchell & Gardner, 1925
Amaknak Is., Alaska

SAUNDERSELLA SIMPLEX (Saunders) Kylin
Kylin, 1940
Cook Inlet, Alaska to Vancouver, B. C.

Fam. **Heterochordariaceae**

HETEROCHORDARIA ABIETINA (Ruprecht) Setchell & Gardner
Smith, 1944
Bering Sea to Point Conception, Calif.

Fam. **Spermatochaceae**

NEMACYSTUS BRANDEGEEI (Setchell & Gardner) Kylin
Dawson, 1944
Punta Peñasco, Sonora; La Paz, Baja Calif.

Order **SPOROCHNALES**

Fam. **Sporochaceae**

SPOROCHNUS PEDUNCULATUS (Hudson) C. Agardh
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.

Order **DESMARESTIALES**

Fam. **Desmarestiaceae**

DESMARESTIA FARCTA Setchell & Gardner
Setchell & Gardner, 1925
Argyle, San Juan Co., Wash.

- DESMARESTIA FILAMENTOSA Dawson
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif.
- DESMARESTIA FOLIACEA Pease
Setchell & Gardner, 1925
San Juan Co., Wash.
- DESMARESTIA HERBACEA (Turner) Lamouroux
Smith, 1944; Setchell & Gardner, 1930; Taylor, 1945;
Dawson, 1945E
Kodiak Is., Alaska to Is. Cedros, Baja Calif.
- DESMARESTIA INTERMEDIA Postels & Ruprecht
Setchell & Gardner, 1925
Bering Sea to Puget Sound, Wash.
- DESMARESTIA JORDANII Gardner
Gardner, 1940
Ventura, Calif.
- DESMARESTIA LATIFRONS (Ruprecht) Kützing
Smith, 1944
Coos Bay, Oregon to Point Sur, Calif.
- DESMARESTIA LATISSIMA Setchell & Gardner
Setchell & Gardner, 1925
San Juan Co., Wash.
- DESMARESTIA LIGULATA (Lightfoot) Lamouroux
Setchell & Gardner, 1925
San Juan Is., Wash.
- DESMARESTIA LINEARIS Gardner
Smith, 1944
Monterey Peninsula, Calif.
- DESMARESTIA MEDIA (C. Agardh) Greville
Setchell & Gardner, 1925
Unalaska, Alaska
- DESMARESTIA MEDIA var. TENUIS Setchell & Gardner
Setchell & Gardner, 1925
Juneau, Alaska to Puget Sound, Wash.
- DESMARESTIA MEXICANA Dawson
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif.
- DESMARESTIA MUNDA Setchell & Gardner
Smith, 1944; Dawson, 1945A
Puget Sound, Wash. to Is. Cedros, Baja Calif.

DESMARESTIA PACIFICA Setchell & Gardner
Setchell & Gardner, 1925; 1930
Santa Catalina Is., Calif.; Is. Guadalupe, Baja Calif. ?

DESMARESTIA VIRIDIS (Müller) Lamouroux
Smith, 1944
Carmel, Calif.

Order **PUNCTARIALES**

Fam. **Punctariaceae**

PUNCTARIA CHARTACEA Setchell & Gardner
Setchell & Gardner, 1925
Sitka, Alaska

PUNCTARIA EXPANSA Setchell & Gardner
Setchell & Gardner, 1925
Whidbey Is., Wash.

PUNCTARIA HESPERIA Setchell & Gardner
Smith, 1944
Victoria, B. C.; Monterey; San Pedro, Calif.

PUNCTARIA LATIFOLIA Greville
Setchell & Gardner, 1925
Metlacatla; Baranoff Is., Alaska

PUNCTARIA LOBATA (Saunders) Setchell & Gardner
Setchell & Gardner, 1925
Prince William Sound to Sitka, Alaska

PUNCTARIA OCCIDENTALIS Setchell & Gardner
Smith, 1944
Monterey, Calif.

PUNCTARIA ORBICULATA Jao
Jao, 1937
San Juan Is., Wash.

PUNCTARIA PLANTAGINEA Greville
Saunders, 1901; Setchell & Gardner, 1925
Yakutat Bay, Alaska ?

HALORHIPIS WINSTONII (Anderson) Saunders
Smith, 1944
Monterey Peninsula, Calif.

Fam. **Asperococcaceae**

SORANTHERA ULVOIDEA Postels & Ruprecht
Smith, 1944
Unalaska, Alaska to southern Calif.

SORANTHERA ULVOIDEA f. DIFFORMIS Setchell & Gardner
Setchell & Gardner, 1925
Bering Sea to Cape Flattery, Wash.

MYELOPHYCUS INTESTINALE Saunders
Setchell & Gardner, 1925
Shumagin Is., Alaska to Puget Sound, Wash.

MYELOPHYCUS INTESTINALE f. TENUE Setchell & Gardner
Setchell & Gardner, 1925
Coos Bay, Oregon to central Calif.

Fam. Scytosiphonaceae

SCYTOSIPHON LOMENTARIA (Lyngbye) J. Agardh
Smith, 1944; Dawson, 1945E
Bering Sea to Punta Descanso, Baja Calif.

SCYTOSIPHON LOMENTARIA f. CYLINDRICUS MACULATUS
Setchell & Gardner
Setchell & Gardner, 1925
San Francisco, Calif.

SCYTOSIPHON LOMENTARIA f. TYPICA Rosenvinge
Smith, 1944; Dawson, 1945E
Bering Sea to Punta Descanso, Baja Calif.

SCYTOSIPHON LOMENTARIA var. COMPLANATUS Rosenvinge
Smith, 1944
Cape Arago, Oregon to Carmel, Calif.

ILEA FASCIA (Müller) Fries
Smith, 1944; Dawson, 1945E
Unalaska, Alaska to Cabo Colnett, Baja Calif.

ILEA FASCIA f. CAESPITOSA Setchell & Gardner
Setchell & Gardner, 1925
Alaska

ILEA FASCIA f. DEBILIS Setchell & Gardner
Setchell & Gardner, 1925
San Juan Is., Wash.

ILEA FASCIA f. TYPICA Setchell & Gardner
Setchell & Gardner, 1925
Puget Sound, Wash. to southern Calif.

ILEA FASCIA f. ZOSTERIFOLIA Setchell & Gardner
Smith, 1944
Monterey Peninsula, Calif.

ENDARACHNE BINGHAMIAE J. Agardh
Setchell & Gardner, 1925
Southern Calif. to Ensenada, Baja Calif.

- COLPOMENIA RAMOSA Taylor
Taylor, 1945
Is. Cedros, Baja Calif.; Bahía Salinas; Port Parker,
Costa Rica
- COLPOMENIA SINUOSA (Roth) Derbés & Solier
Setchell & Gardner, 1925; 1930; Smith, 1944; Dawson,
1944; Taylor, 1945
Yakutat Bay, Alaska to Port Parker, Costa Rica
- COLPOMENIA SINUOSA f. DEFORMANS Setchell & Gardner
Setchell & Gardner, 1925; Dawson, 1944; Taylor, 1945;
Scytosiphon bullosus in Smith, 1944.
Cook Inlet, Alaska to Bahía San Bartolomé, Baja Calif.;
Gulf of Calif.
- COLPOMENIA SINUOSA f. EXPANSA Saunders
Setchell & Gardner, 1925
Avalon, Santa Catalina Is., Calif.
- COLPOMENIA SINUOSA f. TUBERCULATA (Saunders) Setchell
& Gardner
Setchell & Gardner, 1925; Dawson, 1944
Unalaska, Alaska to La Paz, Baja Calif.; Gulf of Calif.
- ROSENVINGEA INTRICATA (J. Agardh) Børgesen
Dawson, 1944; Taylor, 1945
Bahía Tepoca, Sonora to Is. Socorro, Revilla Gigedo
Arch.
- HYDROCLATHRUS CLATHRATUS (Bory) Howe
Dawson, 1944; 1945B
Southern Calif. to central México; southern Gulf of
Calif.

Fam. **Coilodesmaceae**

- COILODESME BULLIGERA Stroemfelt
Setchell & Gardner, 1925
Shumagin Is., Alaska to Coos Bay, Oregon
- COILODESME CALIFORNICA (Ruprecht) Kjellman
Smith, 1944; Connell, 1928; Dawson, 1945C
Departure Bay, B. C. to La Jolla, Calif.
- COILODESME CORRUGATA Setchell & Gardner
Setchell & Gardner, 1925
Santa Catalina Is., Calif.
- COILODESME CYSTOSEIRAE (Ruprecht) Setchell & Gardner
Setchell & Gardner, 1925
Kukak Bay; Yakutat Bay, Alaska

COILODESME POLYGNAMPTA Setchell & Gardner
Setchell & Gardner, 1925
Amaknak Is., Unalaska, Alaska

COILODESME RIGIDA Setchell & Gardner
Setchell & Gardner, 1925
Redondo to San Diego, Calif.

COILODESME SITCHENSIS Setchell & Gardner
Setchell & Gardner, 1925
Sitka, Alaska

PHAEOSTROPHION IRREGULARE Setchell & Gardner
Setchell & Gardner, 1925
Coos Bay, Oregon; Bolinas, Calif.

Fam. **Striariaceae**

STICTYOSIPHON TORTILIS (Ruprecht) Reinke
Smith, 1944
Alaska; Monterey Peninsula, Calif.

Fam. **Chnoosporaceae**

CHNOOSPORA PACIFICA J. Agardh
Dawson, 1944
La Paz, Baja Calif. to St. Augustin, Oaxaca

CHNOOSPORA PANNOSA J. Agardh
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.

Fam. **Ishigiaceae**

ISHIGE FOLIACEA Okamura
Dawson, 1944
Northern Gulf of Calif.

Order **DICTYOSIPHONALES**

Fam. **Dictyosiphonaceae**

DICTYOSIPHON FOENICULACEUS (Hudson) Greville
Setchell & Gardner, 1925
Bering Sea to Puget Sound, Wash.

DICTYOSIPHON HIPPUROIDES (Lyngbye) Kützing
Setchell & Gardner, 1925
Bering Sea to Unalaska, Alaska

DICTYOSIPHON HISPIDUS Kjellman
Setchell & Gardner, 1925
Orca, Alaska

DICTYOSIPHON SINICOLA Gardner
Gardner, 1940
Vancouver Is., B. C.; Puget Sound, Wash.

DICTYOSIPHON TENUIS Setchell & Gardner
Setchell & Gardner, 1925
Golofin Bay, Alaska

Order LAMINARIALES

Fam. Chordaceae

CHORDA FILUM (Linnaeus) Lamouroux
- Setchell & Gardner, 1925
- Bering Sea to Puget Sound, Wash.

Fam. Laminariaceae

LAMINARIA ANDERSONII Eaton
Smith, 1944
Whidbey Is., Wash, to Carmel, Calif.

LAMINARIA COMPLANATA (Setchell & Gardner) Setchell
Setchell & Gardner, 1925
Friday Harbor, Wash.

LAMINARIA CUNEIFOLIA J. Agardh
Setchell & Gardner, 1925
Bering Sea to Puget Sound, Wash.

LAMINARIA CUNEIFOLIA f. AMPLISSIMA Setchell & Gardner
Setchell & Gardner, 1925
Sitka, Alaska to Cape Flattery, Wash.

LAMINARIA CUNEIFOLIA f. ANGUSTA Setchell & Gardner
Setchell & Gardner, 1925
Cape Flattery; Whidbey Is., Wash.

LAMINARIA CUNEIFOLIA f. SUBSIMPLEX Setchell & Gardner
Setchell & Gardner, 1925
Lower Puget Sound, Wash.

LAMINARIA DENTIGERA Kjellman
Setchell & Gardner, 1925
Aleutian Islands, Alaska

- LAMINARIA EPHEMERA Setchell
Smith, 1944
Puget Sound, Wash.; Monterey Peninsula, Calif.
- LAMINARIA FARLOWII Setchell
Smith, 1944; Dawson, 1945E
Santa Cruz, Calif. to Cabo Colnett, Baja Calif.
- LAMINARIA LONGIPES Bory
Setchell & Gardner, 1925
Agattu Is.; Kiska Is., Alaska
- LAMINARIA PERSONATA Setchell & Gardner
Setchell & Gardner, 1925
Yakutat Bay to Sitka, Alaska
- LAMINARIA PLATYMERIS De la Pylaie
Setchell & Gardner, 1925
Bering Sea to Straits of Juan de Fuca
- LAMINARIA SACCHARINA (Linnaeus) Lamouroux
Setchell & Gardner, 1925
Alaska to Coos Bay, Oregon
- LAMINARIA SACCHARINA f. LINEARIS J. Agardh
Setchell & Gardner, 1925
Unga, Alaska to Puget Sound, Wash.
- LAMINARIA SACCHARINI f. MEMBRANACEA J. Agardh
Setchell & Gardner, 1925
Alaska to Coos Bay, Oregon
- LAMINARIA SINCLAIRII (Harvey) Farlow
Smith, 1944
Vancouver Is., B. C. to San Luis Obispo Co., Calif.
- PLEUROPHYCUS GARDNERI Setchell & Saunders
Setchell & Gardner, 1925
Yakutat Bay, Alaska to Coos Bay, Oregon
- CYAMATHERE TRIPLICATA (Postels & Ruprecht) J. Agardh
Setchell & Gardner, 1925
Bering Sea to Puget Sound, Wash.
- COSTARIA COSTATA (Turner) Saunders
Smith, 1944
Shumagin Is., Alaska to San Pedro, Calif.
- THALASSIOPHYLLUM CLATHRUS (Gmelin) Postels & Ruprecht
Setchell & Gardner, 1925
Bering Sea to Straits of Juan de Fuca
- AGARUM CRIBROSUM Bory
Setchell & Gardner, 1925
Bering Sea to San Juan Is., Wash.

- AGARUM FIMBRIATUM Harvey
Setchell & Gardner, 1925
Puget Sound, Wash. to central Calif.
- HEDOPHYLLUM SESSILE (C. Agardh) Setchell
Setchell & Gardner, 1925
Yakutat Bay, Alaska to Point Sur, Calif.
- HEDOPHYLLUM SUBSESSILE (Areschoug) Setchell
Sanborn & Doty, 1946
Bering Sea; Coos Bay, Oregon
- ARTHROTHAMNUS BIFIDUS (Gmelin) J. Agardh
Setchell & Gardner, 1925
Aleutian Islands, Alaska
- DICTYONEURUM CALIFORNICUM Ruprecht
Smith, 1944
Vancouver Is., B. C. to San Luis Obispo Co., Calif.
- DICTYONEUOPSIS RETICULATA (Saunders) G. M. Smith
Smith, 1944
Monterey Peninsula, Calif.
- NEREOCYSTIS LUETKEANA (Mertens) Postels & Ruprecht
Smith, 1944
Shumagin Is., Alaska to Santa Barbara, Calif.
- POSTELSIA PALMAEFORMIS Ruprecht
Smith, 1944
Vancouver Is., B. C. to San Luis Obispo Co., Calif.
- MACROCYSTIS INTEGRIFOLIA Bory
Smith, 1944
Vancouver Is., B. C. to Carmel, Calif.
- MACROCYSTIS PYRIFERA (Linnaeus) C. Agardh
Smith, 1944; Taylor, 1945
Sitka, Alaska to Bahía Magdalena, Baja Calif.; cast
ashore on Is. Clarion, Revilla Gigedo Arch.
- PELAGOPHYCUS PORRA (Leman) Setchell
Setchell & Gardner, 1925
Point Conception to San Diego, Calif.
- LESSONIOPSIS LITTORALIS (Farlow & Setchell) Reinke
Smith, 1944
Sitka, Alaska to Carmel, Calif.

Fam. Alariaceae

- PTERYGOPHORA CALIFORNICA Ruprecht
Smith, 1944; Dawson, 1945E
Vancouver Is., B. C. to Punta Descanso, Baja Calif.

- ALARIA DOLICHORHACHIS Kjellman
Setchell & Gardner, 1925
Agattu Is., Alaska
- ALARIA FISTULOSA Postels & Ruprecht
Setchell & Gardner, 1925
Bering Sea to Wrangell, Alaska
- ALARIA FISTULOSA f. PLATYPHYLLA Setchell
Setchell & Gardner, 1925
Bering Sea to southeastern Alaska
- ALARIA FISTULOSA f. STENOPHYLLA Setchell
Setchell & Gardner, 1925
Bering Sea to southeastern Alaska
- ALARIA LANCEOLATA Kjellman
Setchell & Gardner, 1925
Bering Sea to Sitka, Alaska
- ALARIA MARGINATA Postels & Ruprecht
Smith, 1944; Sanborn & Doty, 1946
Coos Bay, Ore. to Carmel, Calif.
- ALARIA NANA Schrader
Smith, 1944
Vancouver Is., B. C. to Carmel, Calif.
- ALARIA PYLAI (Bory) Greville
Setchell & Gardner, 1925
Prince William Sound to Kodiak Is., Alaska
- ALARIA TENUIFOLIA Setchell
Setchell & Gardner, 1925
Bering Sea to Puget Sound, Wash.
- ALARIA TENUIFOLIA f. TYPICA Setchell
Setchell & Gardner, 1925
Unalaska, Alaska
- ALARIA TENUIFOLIA f. AMPLIOR Setchell & Gardner
Setchell & Gardner, 1925
Esquimault, B. C. to San Juan Is., Wash.
- ALARIA VALIDA Kjellman & Setchell
Setchell & Gardner, 1925
Unga, Alaska to Puget Sound, Wash.
- ALARIA VALIDA f. LONGIPES Setchell & Gardner
Setchell & Gardner, 1925
Whidbey Is., Wash.
- EISENIA ARBOREA Areschoug
Setchell & Gardner, 1925
Redondo, Calif. to Cabo San Lazaro, Baja Calif.

EISENIA ? DESMARESTIODES Setchell & Gardner
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.

EISENIA ? MASONII Setchell & Gardner
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.

EGREGIA LAEVIGATA Setchell
Smith, 1944; Dawson, 1945E; 1946
Monterey; Point Conception, Calif. to Cabo Colnett, Baja
Calif.; Bahía Los Angeles, Gulf of Calif.

EGREGIA MENZIESII (Turner) Areschoug
Smith, 1944
Vancouver Is., B. C. to Point Conception, Calif.

Order FUCALES

Fam. **Fucaceae**

FUCUS EDENTATUS De la Pylaie
Setchell & Gardner, 1925
Sitka, Alaska to Coos Bay, Oregon

FUCUS EDENTATUS f. ACUTUS Gardner
Setchell & Gardner, 1925
Bellingham, Wash.

FUCUS EDENTATUS f. COSTATUS Gardner
Setchell & Gardner, 1925
Lower Puget Sound, Wash.

FUCUS EDENTATUS f. DIVARICATUS Gardner
Setchell & Gardner, 1925
Vancouver Is., B. C.; Bellingham, Wash.

FUCUS EDENTATUS f. DIVERGENS Gardner
Setchell & Gardner, 1925
Kanaka Bay, San Juan Co., Wash.

FUCUS EDENTATUS f. HESPERIUS Gardner
Setchell & Gardner, 1925
Cape Arago, Oregon

FUCUS EVANESCENS C. Agardh
Setchell & Gardner, 1925
Bering Sea to Coos Bay, Oregon

FUCUS EVANESCENS f. CORNUTUS Kjellman
Setchell & Gardner, 1925
Yakutat Bay, Alaska

- FUCUS EVANESCENS f. CUNEATUS Gardner
Setchell & Gardner, 1925
Coos Bay, Oregon
- FUCUS EVANESCENS f. DENDROIDES Stroemfelt
Setchell & Gardner, 1925
Agattu Is. to Sitka, Alaska
- FUCUS EVANESCENS f. ECOSTATUS Gardner
Setchell & Gardner, 1925
Coos Bay, Oregon
- FUCUS EVANESCENS f. FLABELLATUS Gardner
Setchell & Gardner, 1925
Bellingham, Wash.
- FUCUS EVANESCENS f. LONGIFRUCTUS Setchell & Gardner
Setchell & Gardner, 1925
Orca to Juneau, Alaska
- FUCUS EVANESCENS f. MACROCEPHALUS Kjellman
Setchell & Gardner, 1925; Connell, 1928
Bering Sea to Departure Bay, B. C.
- FUCUS EVANESCENS f. MAGNIFICUS Gardner
Setchell & Gardner, 1925
Juneau, Alaska to Puget Sound, Wash.
- FUCUS EVANESCENS f. MARGINATUS Gardner
Setchell & Gardner, 1925
Sitka, Alaska
- FUCUS EVANESCENS f. NANUS Kjellman
Setchell & Gardner, 1925
Yakutat Bay, Alaska to Puget Sound, Wash.
- FUCUS EVANESCENS f. OREGONENSIS Gardner
Setchell & Gardner, 1925
Coos Bay, Oregon
- FUCUS EVANESCENS f. PERGRANDIS Kjellman
Setchell & Gardner, 1925
Unalaska, Alaska to Puget Sound, Wash.
- FUCUS EVANESCENS f. ROBUSTUS Setchell & Gardner
Setchell & Gardner, 1925
Bering Sea to Friday Harbor, Wash.
- FUCUS EVANESCENS f. RUDIS Kjellman
Setchell & Gardner, 1925
Bering Sea to Skagway, Alaska
- FUCUS EVANESCENS f. STELLATUS Gardner
Setchell & Gardner, 1925
Sackman's Point, Kitsap Co., Wash.

- FUCUS EVANESCENS f. TYPICUS Kjellman
Setchell & Gardner, 1925
Harvester and Kodiak Is., Alaska
- FUCUS FURCATUS C. Agardh
Smith, 1944
Sitka, Alaska to San Luis Obispo Co., Calif.
- FUCUS FURCATUS f. ABBREVIATUS Gardner
Setchell & Gardner, 1925; Sanborn & Doty, 1946
San Juan Co., Wash. to Coos Bay, Oregon
- FUCUS FURCATUS f. ANGUSTUS Gardner
Setchell & Gardner, 1925
San Juan Is., Wash. to central Oregon
- FUCUS FURCATUS f. CONTORTUS Gardner
Setchell & Gardner, 1925
Near Bellingham, Wash.
- FUCUS FURCATUS f. CORNUTUS Gardner
Setchell & Gardner, 1925
Yakutat Bay, Alaska to Victoria, B. C.
- FUCUS FURCATUS f. ELONGATUS Gardner
Setchell & Gardner, 1925
San Juan Is., Wash. to Coos Bay, Oregon
- FUCUS FURCATUS f. LATIFRONS Gardner
Setchell & Gardner, 1925
Ft. Ward, near Seattle, Wash.
- FUCUS FURCATUS f. LINEARIS Gardner
Setchell & Gardner, 1925
Tracyton, Wash.
- FUCUS FURCATUS f. LUXURIANS Gardner
Setchell & Gardner, 1925; Smith, 1944; Sanborn & Doty,
1945
Coos Bay, Oregon to Oil Port, San Luis Obispo Co.,
Calif.
- FUCUS FURCATUS f. NIGRICANS Gardner
Setchell & Gardner, 1925
Cattle Point, San Juan Is., Wash.
- FUCUS FURCATUS f. REFLEXUS Gardner
Setchell & Gardner, 1925
Pt. Defiance, Tacoma, Wash.
- FUCUS FURCATUS f. RIGIDUS Gardner
Setchell and Gardner, 1925; Connell, 1928
Horswell Channel, B. C. to Whidbey Is., Wash.

- FUCUS FURCATUS f. TYPICUS Gardner
Setchell & Gardner, 1925
Straits of Juan de Fuca to Fort Ross, Calif.
- FUCUS FURCATUS f. VARIABILIS Gardner
Setchell & Gardner, 1925; Connell, 1928
Sitka, Alaska; Campbell River, B. C.
- FUCUS MEMBRANACEUS Gardner
Setchell & Gardner, 1925
Bering Sea to Puget Sound, Wash.
- FUCUS MEMBRANACEUS f. ABBREVIATUS Gardner
Setchell & Gardner, 1925
Sitka, Alaska
- FUCUS MEMBRANACEUS f. ACUMINATUS Gardner
Setchell & Gardner, 1925
Sitka, Alaska
- FUCUS MEMBRANACEUS f. LATISSIMUS Gardner
Setchell & Gardner, 1925
Kodiak Is. to Sitka, Alaska
- FUCUS MEMBRANACEUS f. LIMITATUS Gardner
Setchell & Gardner, 1925
Pt. Defiance, Tacoma, Wash.
- FUCUS MEMBRANACEUS f. OBTUSUS Gardner
Setchell & Gardner, 1925
Sitka, Alaska
- FUCUS MEMBRANACEUS f. TYPICUS Gardner
Setchell & Gardner, 1925
Sitka, Alaska
- FUCUS NITENS Gardner
Setchell & Gardner, 1925
San Francisco Bay, Calif.
- FUCUS PARKSII Gardner
Gardner, 1940
Humbolt Bay; Eureka, Calif.
- PELVETIA FASTIGIATA (J. Agardh) DeToni
Smith, 1944; Sanborn & Doty, 1946; Dawson, 1945E;
Connell, 1928
Horswell Channel, B. C.; Coos Bay, Oregon to Ensenada, Baja Calif.
- PELVETIA FASTIGIATA f. GRACILIS Setchell & Gardner
Smith, 1944
Monterey Peninsula; Santa Catalina Is., Calif.

PELVETIOPSIS ARBORESCENS Gardner
Gardner, 1940
Point Carmel, Calif.

PELVETIOPSIS LIMITATA (Setchell) Gardner
Smith, 1944
Vancouver Is., B. C. to Carmel, Calif.

PELVETIOPSIS LIMITATA f. LATA Gardner
Smith, 1944
Tomales Point to Monterey, Calif.

PELVETIOPSIS LIMITATA f. TYPICA Gardner
Setchell & Gardner, 1925
Vancouver Is., B. C. to central Calif.

HESPEROPHYCUS HARVEYANUS (Decaisne) Setchell & Gardner
Smith, 1944; Dawson, 1945E
Santa Cruz, Calif. to Ensenada, Baja Calif.

Fam. Sargassaceae

BLOSSEVILLEA BRANDEGEEI Setchell & Gardner
Setchell & Gardner, 1930; Dawson, 1945C
La Jolla, Calif. to Is. Guadalupe, Baja Calif.

CYSTOPHYLLUM GEMINATUM (C. Agardh) J. Agardh
Setchell & Gardner, 1925
Bering Sea to Puget Sound, Wash.

HALIDRYS DIOICA Gardner
Setchell & Gardner, 1925; Taylor, 1945; Dawson, 1945E
Redondo, Calif. to Is. Cedros, Baja Calif.

CYSTOSEIRA NEGLECTA Setchell & Gardner
Setchell & Gardner, 1925; Dawson, 1945C; 1945E
Santa Catalina Is.; La Jolla, Calif.; Cabo Colnett, Baja
Calif.

CYSTOSEIRA OSMUNDACEA (Menzies) C. Agardh
Smith, 1944; Taylor, 1945; Dawson, 1945E
Seaside, Oregon to Punta San Bartolomé, Baja Calif.

CYSTOSEIRA SETCHELLII Gardner
Setchell & Gardner, 1925
Redondo to San Diego, Calif.

SARGASSUM ACINACIFOLIUM Setchell & Gardner
Dawson, 1944
Puerto Libertad to Guaymas, Sonora

SARGASSUM AGARDHIANUM Farlow
Setchell & Gardner, 1925; Dawson, 1945E
Southern Calif. to Ensenada, Baja Calif.

- SARGASSUM ASYMMETRICUM Dawson
Dawson, 1944
Punta Peñasco, Sonora to Is. Tiburón, Gulf of Calif.
- SARGASSUM BRANDEGEEI Setchell & Gardner
Dawson, 1944; Taylor, 1945
Puerto Libertad to Guaymas, Sonora; Golfo Dulce, Costa Rica ?
- SARGASSUM CAMOUII Dawson
Dawson, 1944
Is. Tiburón, Gulf of Calif.
- SARGASSUM HERPORHIZUM Setchell & Gardner
Dawson, 1944
George Is.; Is. San Pedro Martir, Gulf of Calif.
- SARGASSUM HORRIDUM Setchell & Gardner
Dawson, 1944
Vicinity of La Paz, Baja Calif.
- SARGASSUM HOWELLII Setchell & Gardner
Setchell, 1937; Taylor, 1945
Is. Socorro; Is. Clarion, Revilla Gigedo Arch.
- SARGASSUM JOHNSTONII Setchell & Gardner
Dawson, 1944
Punta Peñasco, Sonora to Bahía Agua Verde, Baja Calif.
- SARGASSUM JOHNSTONII f. GRACILE Setchell & Gardner
Dawson, 1944
Punta Peñasco to Guaymas, Sonora
- SARGASSUM LAPAZEANUM Setchell & Gardner
Dawson, 1944
Guaymas, Sonora to La Paz, Baja Calif.
- SARGASSUM LIEBMANNI J. Agardh
Taylor, 1945
Is. María Magdalena, Nayarit to Bahía Honda, Panamá
- SARGASSUM MACDOUGALII Dawson
Dawson, 1944
Puerto Libertad; Guaymas, Sonora
- SARGASSUM PALMERI Grunow
Setchell & Gardner, 1925; 1930
Santa Cruz, Calif. to Is. Guadalupe, Baja Calif.
- SARGASSUM SINICOLA Setchell & Gardner
Dawson, 1944
Punta Peñasco, Sonora to La Paz, Baja Calif.; Is. Guadalupe, Baja Calif.

RHODOPHYCEAE

(RED ALGAE)

Order BANGIALES

Fam. **Goniotrichaceae**

GONIOTRICHUM CORNU-CERVI (Reinsch) Hauck
Kylin, 1925
Friday Harbor, Wash.

GONIOTRICHUM ELEGANS (Chauvin) Zanardini
Smith, 1944; Dawson, 1944; *Goniotrichum Alsidii* in
Taylor, 1945
Friday Harbor, Wash. to Is. María Madre, Nayarit

GONIOTRICHOPSIS SUBLITTORALIS G. M. Smith
Smith, 1944
Monterey, Calif.

Fam. **Erythrotrichiaceae**

ERYTHROPELTIS DISCIGERA (Berthold) Schmitz
Dawson, 1944
Is. Tiburón, Gulf of Calif.

ERYTHROTRICHIA CALIFORNICA Kylin
Smith, 1944; Dawson, 1944
Monterey, Calif.; Is. Tiburón, Gulf of Calif.

ERYTHROTRICHIA CARNEA (Dillwyn) J. Agardh
Smith, 1944; Dawson, 1944; 1945B
Monterey; San Diego, Calif.; Gulf of Calif.

ERYTHROTRICHIA CERAMICOLA (Lyngbye) Areschoug
Collins, 1913
Uchuelet, Vancouver Is., B. C.

ERYTHROTRICHIA KYLINII Gardner
Gardner, 1927
Bering Sea to Puget Sound, Wash.

ERYTHROTRICHIA PARKSII Gardner
Gardner, 1927
Eureka, Calif.

ERYTHROTRICHIA PARKSII var. MINOR Gardner
Gardner, 1927
Neah Bay, Wash.

- ERYTHROTRICHIA POLYMORPHA Howe
Setchell & Gardner, 1924
Gulf of Calif.
- ERYTHROTRICHIA PORPHYROIDES Gardner
Gardner, 1927
San Francisco, Calif.
- ERYTHROTRICHIA PULVINATA Gardner
Smith, 1944
Monterey, Calif.
- ERYTHROTRICHIA TETRASERIATA Gardner
Gardner, 1927
San Pedro, Calif.
- ERYTHROTRICHIA WELWITSCHII (Ruprecht) Batters
Smith, 1944
Monterey, Calif.
- ERYTHROCLADIA IRREGULARIS Rosenvinge
Smith, 1944; Dawson, 1944
Friday Harbor, Wash.; Monterey, Calif.; Turner's Is.,
Gulf of Calif.
- ERYTHROCLADIA SUBINTEGRA Rosenvinge
Smith, 1944; Dawson, 1945E
Friday Harbor, Wash.; Monterey, Calif.; Punta Des-
canso, Baja Calif.

Fam. **Bangiaceae**

- BANGIA FUSCOPURPUREA (Dillwyn) Lyngbye
Kylin, 1925; Taylor, 1945
Orcas Is., Wash.; Port Parker, Costa Rica
- BANGIA MAXIMA Gardner
Gardner, 1927
Bollinas, Calif.
- BANGIA TENUIS Gardner
Gardner, 1927
Orcas Is., Wash.
- BANGIA VERMICULARIS Harvey
Smith, 1944; Sanborn & Doty, 1946
Coos Bay, Oregon to Carmel, Calif.
- PORPHYRA ABYSSICOLA Kjellman
Kylin, 1925
Friday Harbor, Wash.
- PORPHYRA AMPLISSIMA (Kjellman) Setchell & Hus
Kylin, 1925; Setchell & Gardner, 1903
Amaknak Is., Alaska to Friday Harbor, Wash.

- PORPHYRA LACINIATA (Lightfoot) C. Agardh
Setchell & Gardner, 1903
Amaknak Is. to Sitka, Alaska
- PORPHYRA LANCEOLATA (Setchell & Hus) G. M. Smith
Smith, 1944
Chehalis Bay, Wash. to Carmel, Calif.
- PORPHYRA MINIATA f. CUNEIFORMIS Setchell & Hus
Smith, 1944
Gulf of Alaska; Coupeville, Wash.; Monterey, Calif.
- PORPHYRA NAIADUM Anderson
Smith, 1944; Taylor, 1945; Dawson, 1945E
Vancouver Is., B. C. to Cabo San Lazaro, Baja Calif.
Port Parker, Costa Rica
- PORPHYRA NEREOCYSTIS Anderson
Smith, 1944
Uyak Bay, Alaska to San Pedro, Calif.
- PORPHYRA OCCIDENTALIS Setchell & Hus
Smith, 1944; Sanborn & Doty, 1946
Coos Bay, Oregon; Carmel Bay, Calif.
- PORPHYRA PERFORATA J. Agardh
Smith, 1944; Dawson, 1944; 1945E
Shumagin Is., Alaska to Cabo Colnett, Baja Calif.; Bahía
Agua Verde, Baja Calif.
- PORPHYRA PERFORATA f. SEGREGATA Setchell & Hus
Kylin, 1925
Washington to northern Calif.
- PORPHYRA PULCHRA Hollenberg
Smith, 1944
Santa Cruz to Monterey, Calif.
- PORPHYRA SCHIZOPHYLLA Hollenberg
Smith, 1944
Pescadero Point, Calif.
- PORPHYRA THURETII Setchell & Dawson
Dawson, 1944; Smith, 1944
Santa Cruz; Monterey, Calif.; Bahía San Felipe, Baja
Calif.
- PORPHYRA TENUISSIMA (Stroemfelt) Setchell & Hus
Setchell & Gardner, 1903
Shumagin Is.; Yakutat Bay, Alaska
- PORPHYRA UMBILICALIS (Setchell & Gardner) Collins
Collins, 1913; *Porphyra laciniata* f. *umbilicalis* in Setchell & Gardner, 1903
Victoria, B. C. ?

PORPHYRA VARIEGATA Kjellman

Smith, 1944

Puget Sound, Wash.; Monterey, Calif.

PORPHYRELLA CALIFORNICA Hollenberg

Hollenberg, 1945

Lady's Harbor, Santa Cruz Is., Calif.; Southern Calif.

PORPHYRELLA GARDNERI Smith & Hollenberg

Smith, 1944; Hollenberg, 1945

Cape Arago, Oregon; Duxbury Reef to Monterey, Calif.

PORPHYROPSIS COCCINEA (J. Agardh) Rosenvinge

Kylin, 1925

Friday Harbor, Wash.

Order NEMALIONALES

Fam. Acrochaetiaceae

ACROCHAETIUM AMPHIROAE (Drew) Papenfuss

Papenfuss, 1945; Dawson, 1945E; *Rhodochorton Amphiroae* in Dawson, 1945B

Monterey, Calif. to Cabo Colnett, Baja Calif.

ACROCHAETIUM ANGUSTUM (Drew) Papenfuss

Papenfuss, 1945

Santa Catalina Is., Calif.

ACROCHAETIUM BORNETII Papenfuss

Papenfuss, 1945

San Pedro, Calif.

ACROCHAETIUM COCCINEUM (Drew) Papenfuss

Papenfuss, 1945

Marin Co.; San Francisco, Calif.

ACROCHAETIUM DAVIESII (Dillwyn) Nägeli

Papenfuss, 1945; Taylor, 1945

Carmel, Calif. to Is. Clarion, Revilla Gigedo Arch.

ACROCHAETIUM DENSUM (Drew) Papenfuss

Papenfuss, 1945

San Francisco, Calif.

ACROCHAETIUM DESMARESTIAE Kylin

Papenfuss, 1945

San Juan Co., Wash.

ACROCHAETIUM DICTYOTAE Collins

Papenfuss, 1945

San Diego Co., Calif.

- ACROCHAETIUM EASTWOODAE (Setchell & Gardner) Papenfuss
Papenfuss, 1945
Is. Clarion, Revilla Gigedo Arch.
- ACROCHAETIUM ELEGANS (Drew) Papenfuss
Papenfuss, 1945
La Jolla, Calif.
- ACROCHAETIUM ERYTHROPHYLLUM Jao
Jao, 1937
Port Angeles, Wash.
- ACROCHAETIUM GYMNOGONGRI (Drew) Papenfuss
Papenfuss, 1945
San Francisco, Calif.
- ACROCHAETIUM HANCOCKII (Dawson) Papenfuss
Papenfuss, 1945
Is. Angel de la Guarda, Gulf of Calif.
- ACROCHAETIUM MACOUNII (Collins) Hamel
Papenfuss, 1945
Vancouver Is., B. C. to Carmel Bay, Calif.
- ACROCHAETIUM MAGNIFICUM (Drew) Papenfuss
Papenfuss, 1945
La Jolla, Calif.
- ACROCHAETIUM OBSCURUM (Drew) Papenfuss
Papenfuss, 1945
Marin Co. to Carmel, Calif.
- ACROCHAETIUM PACIFICUM Kylin
Papenfuss, 1945
San Juan Co., Wash.
- ACROCHAETIUM PENETRALE (Drew) Papenfuss
Papenfuss, 1945; Taylor, 1945
La Jolla, Calif.; Port Parker, Costa Rica
- ACROCHAETIUM PLUMOSUM (Drew) G. M. Smith
Papenfuss, 1945; Dawson, 1945E
Tomales Bay to Carmel, Calif.; Punta Descanso, Baja Calif.
- ACROCHAETIUM RHIZOIDEUM (Drew) G. M. Smith
Papenfuss, 1945
Washington to southern Calif.
- ACROCHAETIUM RHIZOIDEUM var. PATENS (Drew) G. M. Smith
Smith, 1944
Carmel, Calif.

ACROCHAETIUM SIMPLEX (Drew) Papenfuss
Papenfuss, 1945
Santa Monica, Calif.

ACROCHAETIUM SINICOLUM (Dawson) Papenfuss
Papenfuss, 1945
Turner's Is., Gulf of Calif.

ACROCHAETIUM SUBIMMERSUM (Setchell & Gardner) Papen-
fuss
Papenfuss, 1945
Puget Sound, Wash. to Carmel, Calif.

ACROCHAETIUM TENUISSIMUM (Collins) Papenfuss
Papenfuss, 1945
San Pedro, Calif.

ACROCHAETIUM THURETII var. AGAMA (Rosenvinge) Dawson
Dawson, 1945D
San Pedro, Calif.

ACROCHAETIUM VAGUM (Drew) Jao
Jao, 1937; Papenfuss, 1945
Cape Flattery; San Juan Is., Wash.; Moss Beach, San
Mateo Co., Calif.

ACROCHAETIUM VARIABILE (Drew) G. M. Smith
Papenfuss, 1945
San Juan Is., Wash. to San Pedro, Calif.

CHROMASTRUM ARCUATUM (Drew) Papenfuss
Papenfuss, 1945; *Rhodochorton arcuatum* in Dawson,
1944
Cape Flattery, Wash. to Moss Beach, San Mateo Co.,
Calif.; Turner's Is., Gulf of Calif.

CHROMASTRUM HIRSUTUM (Drew) Papenfuss
Papenfuss, 1945
Vancouver, B. C.

CHROMASTRUM IMPLICATUM (Drew) Papenfuss
Papenfuss, 1945
Moss Beach, San Mateo Co., Calif.

CHROMASTRUM MICROSCOPICUM (Nägeli) Papenfuss
Papenfuss, 1945; *Rhodochorton microscopicum* in Daw-
son, 1944
La Jolla, Calif.; Turner's Is., Gulf of Calif.

CHROMASTRUM MONILIFORME (Rosenvinge) Papenfuss
Papenfuss, 1945
Vancouver Is., B. C.

CHROMASTRUM PORPHYRAE (Drew) Papenfuss
Papenfuss, 1945
San Francisco; Monterey, Calif.

RHODOCHORTON CONCRESCENS Drew
Papenfuss, 1945
Carmel Bay, Calif.

RHODOCHORTON PENICILLIFORME (Kjellman) Rosenvinge
Papenfuss, 1945
Spruce Is., Alaska to San Juan Co., Wash.

RHODOCHORTON PURPUREUM (Lightfoot) Rosenvinge
Papenfuss, 1945
Bering Sea to San Diego, Calif.

RHODOCHORTON TENUE Kylin
Papenfuss, 1945
San Juan Is., Wash.; Santa Cruz, Calif.

AUDOUINELLA MEMBRANACEUM (Magnus) Papenfuss
Papenfuss, 1945
San Juan Co., Wash.

CONCHOCELIS ROSEA Batters
Jao, 1937
Puget Sound, Wash.

Fam. **Helminthocladiaceae**

NEMALION ELMINTHOIDES (Vellej) Batters
Dawson, 1945B; *Nemalion lubricum* in Smith, 1944
Sitka, Alaska to San Diego, Calif.

NEMALION VIRENS J. Agardh
Agardh, 1852
Pacific coast of México, probably Oaxaca

HELMINTHORA SAUNDERSII Gardner
Smith, 1944
Monterey, Calif.

HELMINTHORA STRICTA Gardner
Gardner, 1926
La Jolla, Calif.

HELMINTHOCLADIA CALIFORNICA (J. Agardh) Kylin
Kylin, 1941
Santa Barbara to San Diego, Calif.

HELMINTHOCLADIA GRACILIS Gardner
Gardner, 1926
Santa Barbara, Calif.

CUMAGLOIA ANDERSONII (Farlow) Setchell & Gardner
Smith, 1944; Dawson, 1945E
Vancouver Is., B. C. to San Diego, Calif.; Cabo Colnett,
Baja Calif.

LIAGORA CALIFORNICA Zeh
Zeh, 1912; Dawson, 1945D
Santa Catalina Is., Calif. to Is. Guadalupe, Baja Calif.

LIAGORA CERANOIDES Lamouroux
Taylor, 1945
Golfo Dulce, Costa Rica

LIAGORA VALIDA Harvey
Taylor, 1945
Golfo Dulce, Costa Rica

Fam. **Chaetangiaceae**

GLOIOPHLOEA CONFUSA Setchell
Smith, 1944
Vancouver Is., B. C. to San Diego, Calif.

SCINAIA ARTICULATA Setchell
Setchell, 1914A
Santa Barbara, Calif.

SCINAIA COMPLANATA (Collins) Cotton
Taylor, 1945
Is. María Magdalena, Nayarit; Puerto Culebra, Costa
Rica

SCINAIA JOHNSTONIAE Setchell
Dawson, 1944; Taylor, 1945
Southern Calif. to Puerto Culebra, Costa Rica; Gulf of
Calif.

SCINAIA LATIFRONS Howe
Dawson, 1944; Taylor, 1945
Southern Calif. to Is. María Magdalena, Nayarit; Gulf
of Calif.

SCINAIA MINIMA Dawson
Dawson, 1945A
Is. Cedros, Baja Calif.

PSEUDOSCINAIA SNYDERAE Setchell
Setchell, 1914A; Dawson, 1945B
San Pedro to San Diego, Calif.

WHIDBEYELLA CARTILAGINEA Setchell & Gardner
Kylin, 1925
Whidbey Is., Wash.

GALAXAURA FASTIGIATA Decaisne

Dawson, 1944

Punta Peñasco, Sonora; Is. Tiburón, Gulf of Calif.

GALAXAURA FILAMENTOSA Chou

Taylor, 1945

Is. Clarion, Revilla Gigedo Arch.; Puerto Culebra, Costa Rica

GALAXAURA MARGINATA (Solander) Kjellman

Dawson, 1944

San Jose del Cabo, Baja Calif.

GALAXAURA OBLONGATA (Ellis & Solander) Lamouroux

Taylor, 1945

Is. María Madre, Nayarit

GALAXAURA RAMULOSA Kjellman

Taylor, 1945

Is. Jacarita, Panamá

GALAXAURA SQUALIDA Kjellman

Taylor, 1945

Bahía Honda, Panamá

GALAXAURA STUPOCAULON Kjellman

Taylor, 1945

Golfo Dulce, Costa Rica

GALAXAURA SUBFRUTICULOSA Chou

Taylor, 1945

Is. Clarion, Revilla Gigedo Arch.

GALAXAURA VENTRICOSA Kjellman

Taylor, 1945

Is. María Magdalena, Nayarit

GALAXAURA VEPRECUA Kjellman

Taylor, 1945

Golfo Dulce, Costa Rica

Fam. Bonnemaisoniaceae*BONNEMAISONIA CALIFORNICA* Buffham

Smith, 1944

Vancouver Is., B. C. to Ventura, Calif.

BONNEMAISONIA GENICULATA Gardner

Smith, 1944

Carmel Bay to Point Sur, Calif.

BONNEMAISONIA HAMIFERA Hariot
Feldman, 1942; *Asparagopsis hamifera* in Kylin, 1925;
1941; Dawson, 1945E
Victoria, B. C. to Punta Descanso, Baja Calif.

ASPARAGOPSIS SANFORDIANA Harvey
Setchell & Gardner, 1930; Dawson, 1944; Taylor, 1945;
see *Asparagopsis taxiformis* in Feldmann, 1942
Is. Angel de la Guarda, Gulf of Calif. to Is. Clarion,
Revilla Ggedo Arch.

ASPARAGOPSIS SANFORDIANA f. AMPLISSIMA Setchell & Gardner
Setchell & Gardner, 1924; Taylor, 1945
La Paz, Baja Calif.; Revilla Ggedo Arch.

Order GELIDIALES

Fam. Gelidiaceae

GELIDIUM ARBORESCENS Gardner
Smith, 1944
Monterey to Cambria, Calif.

GELIDIUM CALOGLOSSOIDES Howe
Smith, 1944
Monterey to southern Calif.

GELIDIUM CARTILAGINEUM (Linnaeus) Greville
Kylin, 1925; Dawson, 1945E
San Juan Is., Wash. and southward

GELIDIUM CARTILAGINEUM var. ROBUSTUM Gardner
Smith, 1944; Taylor, 1945
San Francisco, Calif. to Puerto San Bartholomé, Baja
Calif.

GELIDIUM COULTERI Harvey
Smith, 1944; Sanborn & Doty, 1946; Dawson, 1945E
Coos Bay, Oregon to Punta Descanso, Baja Calif.

GELIDIUM CRINALE (Turner) Lamouroux
Dawson, 1944; 1945B; Collins, 1913
Victoria, B. C. to La Jolla, Calif.; Bahía Gonzaga, Baja
Calif. to Turner's Is., Gulf of Calif.

GELIDIUM CRINALE var. LUXURIANS Collins
Gardner, 1927E
Southern Calif.

GELIDIUM DECOMPOSITUM Setchell & Gardner
Dawson, 1944
Bahía San Francisquito, Baja Calif.

- GELIDIUM DENSUM** Gardner
Gardner, 1927E; Taylor, 1945
San Pedro, Calif.; Is. Cedros, Baja Calif.
- GELIDIUM JOHNSTONII** Setchell & Gardner
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif. to Guaymas, Sonora
- GELIDIUM MICROPHYSA** Setchell & Gardner
Setchell & Gardner, 1930; Dawson, 1944
Is. Guadalupe, Baja Calif.; Turner's Is., Gulf of Calif.
- GELIDIUM NUDIFRONS** Gardner
Gardner, 1927E
Southern Calif.
- GELIDIUM POLYSTICHUM** Gardner
Gardner, 1927E
White's Point, San Pedro, Calif.
- GELIDIUM PULCHRUM** Gardner
Kylin, 1941; Sanborn & Doty, 1946; Dawson, 1945E
Coos Bay, Oregon; Orange County, Calif. to Cabo Colnett, Baja Calif.
- GELIDIUM PURPURASCENS** Gardner
Smith, 1944
Bolas to San Diego, Calif.
- GELIDIUM PUSILLUM** (Stackhouse) Le Jolis
Smith, 1944; Dawson, 1944; Taylor, 1945
Monterey, Calif. to Panamá
- GELIDIUM RAMULIFERUM** Gardner
Gardner, 1927E
San Pedro, Calif.
- GELIDIUM SCLEROPHYLLUM** Taylor
Taylor, 1945
Golfo Dulce, Costa Rica
- GELIDIUM SETCHELLII** Gardner
Gardner, 1927E
Marin Co., Calif.
- GELIDIUM SINICOLA** Gardner
Smith, 1944
San Francisco Bay; Monterey, Calif.
- PTEROCLADIA MEXICANA** Taylor
Taylor, 1945
Cabo San Lazaro, Baja Calif.

- PTEROCLADIA MUSCIFORMIS* Taylor
Taylor, 1945
Golfo Dulce, Costa Rica
- PTEROCLADIA OKAMURAI* (Setchell & Gardner) Taylor
Taylor, 1945
Is. Clarion, Revilla Gigedo Arch.
- PTEROCLADIA PYRAMIDALE* (Gardner) Dawson
Dawson, 1945D; 1945E
Southern Calif.; Punta Descanso, Baja Calif.
- GELIDIOCOLAX MICROSPHAERICA* Gardner
Gardner, 1927A
Balboa, Calif.
- GELIDIELLA ACEROSA* (Forsskål) Feldmann & Hamel
Dawson, 1944
Southern Gulf of Calif. to Central America
- GELIDIELLA HANCOCKII* Dawson
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif.; Kino, Sonora
- GELIDIELLA MEXICANA* Dawson
Dawson, 1944
Bahía Gonzaga, Baja Calif. to Guaymas, Sonora
- GELIDIELLA* ? *REFUGIENSIS* Dawson
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif.
- WURDEMANNIA MINIATA* (Draparnaud) Feldmann & Hamel
Dawson, 1944; Taylor, 1945
Is. Carmen, Gulf of Calif. to Panama City, Panamá
- GELIDIOPSIS TENUIS* Setchell & Gardner
Dawson, 1944
Guaymas, Sonora to San Jose del Cabo, Baja Calif.; Is.
Clarion, Revilla Gigedo Arch.
- GELIDIOPSIS VARIABILIS* (Greville) Schmitz
Dawson, 1944
Guaymas, Sonora

Order **CRYPTONEMIALES**

Fam. **Dumontiaceae**

- CRYPTOSIPHONIA WOODII* J. Agardh
Smith, 1944
Unalaska, Alaska to Venice, Calif.

- THURETELLOPSIS Peggiana Kylin
Kylin, 1925
Friday Harbor, Wash.
- DUMONTIA FILIFORMIS (Lyngbye) J. Agardh
Setchell & Gardner, 1903
Alaska
- BAYLESIA PLUMOSA Setchell
Smith, 1944
Santa Cruz; Monterey, Calif.
- SARCOPHYLLIS ARCTICA Kjellman
Setchell & Gardner, 1903
Alaska
- PIKEA CALIFORNICA Harvey
Smith, 1944
Vancouver Is., B. C. to La Jolla, Calif.
- PIKEA PINNATA Setchell
Smith, 1944; Dawson, 1945D
Bollinas to Coronado, Calif.
- FARLOWIA COMPRESSA J. Agardh
Smith, 1944
Tomales Bay to Carmel Bay, Calif.
- FARLOWIA CRASSA J. Agardh
Smith, 1944
Port Orford, Oregon to San Diego, Calif.
- FARLOWIA MOLLIS (Harvey & Bailey) Farlow & Setchell
Smith, 1944
Vancouver, B. C. to Carmel, Calif.
- DILSEA CALIFORNICA (J. Agardh) Schmitz
Kylin, 1941; Sanborn & Doty, 1946
Coos Bay, Oregon to San Francisco, Calif.
- LEPTOCLADIA BINGHAMIAE J. Agardh
Setchell, 1912; Kylin, 1941; Dawson, 1945E
Santa Cruz, Calif. to Cabo Colnett, Baja Calif.
- LEPTOCLADIA CONFERTA Setchell
Smith, 1944
Crescent City to Carmel Bay, Calif.
- LEPTOCLADIA LAXA Taylor
Taylor, 1945
Cabo San Lazaro, Baja Calif.
- WEEKSIA FRYEANA Setchell
Kylin, 1925
San Juan Co., Wash.

WEEKSIA HOWELLII Setchell & Gardner
Setchell & Gardner, 1937
Is. Natividad, Baja Calif.

WEEKSIA RETICULATA Setchell
Smith, 1944; Dawson, 1945E
Monterey Peninsula, Calif.; Cabo Colnett, Baja Calif.

WEEKSIA TEMPLETONII Setchell & Gardner
Setchell & Gardner, 1937
Is. Cedros, Baja Calif.

CONSTANTINEA ROSA MARINA (Gmelin) Postels & Ruprecht
Setchell & Gardner, 1903; Setchell, 1906
Western Aleutian Is. to Sitka, Alaska

CONSTANTINEA SIMPLEX Setchell
Smith, 1944
Neah Bay, Wash. to Carmel, Calif.

CONSTANTINEA SUBULIFERA Setchell
Setchell, 1906; Kylin, 1925
Esquimalt, B. C. to San Juan Is., Wash.

Fam. **Gloiosiphoniaceae**

GLOIOPELTIS FURCATA (Postels & Ruprecht) J. Agardh
Setchell & Gardner, 1903; Kylin, 1925
Aleutian Islands, Alaska to Puget Sound, Wash.

GLOIOPELTIS MINIATA Kylin
Kylin, 1941
Santa Catalina Is., Calif.

GLOIOSIPHONIA CALIFORNICA (Farlow) J. Agardh
Smith, 1944
Sitka, Alaska to Carmel Bay, Calif.

GLOIOSIPHONIA CAPILLARIS (Hudson) Carmichael
Collins, 1913
Vancouver Is., B. C.

GLOIOSIPHONIA VERTICILLARIS Farlow
Smith, 1944
Sitka, Alaska to Carmel Bay, Calif.

Fam. **Endocladiaaceae**

ENDOCLADIA MURICATA (Postels & Ruprecht) J. Agardh
Smith, 1944
Shumagin Is., Alaska to La Jolla, Calif.

Fam. Squamariaceae

PEYSSONNELIA CALCEA Heydrich

Taylor, 1945

Is. Socorro, Revilla Gigedo Arch.

PEYSSONNELIA CLARIONENSIS Taylor

Taylor, 1945

Is. Clarion, Revilla Gigedo Arch.

PEYSSONNELIA PACIFICA Kylin

Smith, 1944; Dawson, 1945A

San Juan Is., Wash. to Is. Cedros, Baja Calif.

PEYSSONNELIA RUBRA (Greville) J. Agardh

Setchell & Gardner, 1930; Taylor, 1945

Is. Guadalupe, Baja Calif. ?; Is. Clarion; Is. Socorro,
Revilla Gigedo Arch.

RHODODERMIS ELEGANS Crouan

Smith, 1944

Marin Co. to Monterey, Calif.

ASYMMETRIA EXPANSA Setchell & Gardner

Smith, 1944

Monterey, Calif.

HILDENBRANDIA OCCIDENTALIS Setchell

Smith, 1944

Puget Sound, Wash. to Carmel Bay, Calif.

HILDENBRANDIA PROTOTYPUS Nardo

Smith, 1944; Taylor, 1945

Alaska to Panamá

HILDENBRANDIA ROSEA Kützing

Kylin, 1925; Dawson, 1944

San Juan Co., Wash.; Turner's Is., Gulf of Calif.

CRUORIELLA DUBYI Crouan

Taylor, 1945

Is. Isabel, Nayarit; Is. Socorro; Is. Clarion, Revilla
Gigedo Arch.

Fam. Cruoriaceae

PETROCELIS FRANCISCANA Setchell & Gardner

Smith, 1944

Puget Sound, Wash. to San Luis Obispo Co., Calif.

PETROCELIS HAEMATIS Hollenberg
Hollenberg, 1943
Southern Calif.

PETROCELIS MIDDENDORFFII (Ruprecht) Kjellman
Kylin, 1925
Bering Sea to Whidbey Is., Wash.

Fam. Corallinaceae

CHOREONEMA THURETI (Bornet) Schmitz
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.

MELOBESIA MARGINATA Setchell & Foslie
Smith, 1944; Taylor, 1945
Whidbey Is., Wash. to Is. Cedros, Baja Calif.

MELOBESIA MEDIOCRIS (Foslie) Setchell & Mason
Smith, 1944; Taylor, 1945
Fort Bragg, Calif. to Cabo San Lazaro, Baja Calif.

ARCHEOLITHOTHAMNIUM HOWEI Lemoine
Lemoine, 1929
Is. Coiba, Panamá

LITHOTHAMNIUM ACULEIFERUM Mason
Setchell & Mason, 1943
Pacific Grove to La Jolla, Calif.

LITHOTHAMNIUM AUSTRALE f. AMERICANA Foslie
Dawson, 1944; Taylor, 1945
Is. Angel de la Guarda, Gulf of Calif. to Bahía Honda,
Panamá

LITHOTHAMNIUM AUSTRALE f. MINUTULA Foslie
Mesophyllum australe var. *minutula* in Lemoine, 1929
Is. Coiba, Panamá

LITHOTHAMNIUM AUSTRALE f. TUALENSIS Foslie
Dawson, 1944; Taylor, 1945; *Mesophyllum australe* var.
tualensis in Lemoine, 1929
Is. Angel de la Guarda, Gulf of Calif. to Bahía Honda,
Panamá

LITHOTHAMNIUM CALIFORNICUM Foslie
Smith, 1944
San Juan Is., Wash. to San Diego, Calif.

LITHOTHAMNIUM CONCHATUM Setchell & Foslie
Smith, 1944
San Juan Is., Wash. to Carmel, Calif.

- LITHOTHAMNIUM CRASSIUSCULUM (Foslie) Mason
Setchell & Mason, 1943
San Pedro to La Jolla, Calif.
- LITHOTHAMNIUM GIGANTEUM Mason
Setchell & Mason, 1943
La Jolla, Calif.
- LITHOTHAMNIUM INDICUM Foslie
Taylor, 1945
Is. Socorro; Is. Clarion, Revilla Gigedo Arch.; Is. Secas,
Panamá
- LITHOTHAMNIUM LAMELLATUM Setchell & Foslie
Smith, 1944
Monterey, Calif.
- LITHOTHAMNIUM MONTEREYICUM Foslie
Smith, 1944
Monterey, Calif.
- LITHOTHAMNIUM MURICATUM (Foslie) G. DeToni
G. DeToni, 1924; *Lithophyllum muricatum* in Foslie,
1929
Vancouver Is., B. C.
- LITHOTHAMNIUM PACIFICUM Foslie
Smith, 1944
Whidbey Is., Wash. to Carmel, Calif.
- LITHOTHAMNIUM PARCUM Setchell & Foslie
Smith, 1944
San Juan Is., Wash. to Carmel, Calif.
- LITHOTHAMNIUM PHYMATODEUM Foslie
Foslie, 1929
Puget Sound, Wash. to Bolinas, Calif.
- LITHOTHAMNIUM RECLINATUM Foslie
Foslie, 1929; Collins, 1913
Vancouver Is., B. C. to Tomales Bay, Calif.
- LITHOTHAMNIUM VALIDUM Foslie
Taylor, 1945
Bahía Petatlán, Guerrero; Puerto Culebra, Costa Rica
- CLATHROMORPHUM COMPACTUM f. CIRCUMSCRIPTUM Ström-
felt) Foslie
Foslie, 1929
Unalaska, Alaska
- HYDROLITHON SETCHELLII (Foslie) Setchell & Mason
Setchell & Mason, 1943
Redondo to La Jolla, Calif.

- FOSLIELLA ASCRIPTICIA (Foslie) G. M. Smith
Smith, 1944
Monterey to La Jolla, Calif.
- FOSLIELLA DISPAR (Foslie) G. M. Smith
Smith, 1944
Whidbey Is., Wash.; Bolinas; Monterey, Calif.
- FOSLIELLA INTERMEDIA (Foslie) G. M. Smith
Smith, 1944
Pacific Grove to La Jolla, Calif.
- FOSLIELLA MINUTA Taylor
Taylor, 1945
Bahía Honda, Panamá
- FOSLIELLA NICHOLSII (Setchell & Mason) G. M. Smith
Smith, 1944
Monterey to San Diego, Calif.
- FOSLIELLA PASCHALIS (Lemoine) Setchell & Gardner
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.
- LITHOLEPIS ACCOLA Foslie
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.; Is. Clarion, Revilla Gigedo Arch.
- LITHOLEPIS FERTILIS (Lemoine) Setchell & Mason
Setchell & Mason, 1943
Is. Coiba, Panamá
- LITHOLEPIS SONORENSIS Dawson
Dawson, 1944
Is. Espiritu Santo, Gulf of Calif.
- LITHOPORELLA PACIFICA (Heydrich) Foslie
Setchell & Gardner, 1930
Is. Clarion, Revilla Gigedo Arch.
- HETERODERMA CORALLINICOLA Dawson
Dawson, 1944
Guaymas, Sonora
- HETERODERMA GIBBSII (Foslie & Setchell) Foslie
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif. to San Jose del Cabo, Baja Calif.
- DERMATOLITHON SAXICOLUM (Lemoine) Setchell & Mason
Setchell & Mason, 1943
Is. Cocos, Costa Rica

- DERMATOLITHON VELEROAE Dawson
Dawson, 1944
Bahía Agua Verde, Baja Calif.
- POROLITHON COCOSICUM Lemoine
Lemoine, 1929
Is. Cocos, Costa Rica
- POROLITHON SONORENSIS Dawson
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif. to Guaymas,
Sonora
- LITHOPHYLLUM BRACCHIATUM (Heydrich) Lemoine
Taylor, 1945; Lemoine, 1929
Is. María Magdalena, Nayarit; Is. Socorro; Is. Clarion,
Revilla Gigedo Arch.; Is. Secas; Is. Coiba, Panamá
- LITHOPHYLLUM (?) COIBENSE Lemoine
Lemoine, 1929
Is. Coiba, Panamá
- LITHOPHYLLUM DECIPIENS Foslie
Dawson, 1944; Foslie, 1929
Bodega Bay to San Diego, Calif.; Is. Angel de la Guarda,
Gulf of Calif. to Guaymas, Sonora
- LITHOPHYLLUM DIGUETI (Hariot) Heydrich
Dawson, 1944
Is. Angel de la Guarda; Is. Espíritu Santo, Gulf of Calif.
- LITHOPHYLLUM DIVARICATUM Lemoine
Taylor, 1945
Is. Socorro, Revilla Gigedo Arch.; Bahía Petatlán, Guer-
rero; Is. Jicarita, Panamá
- LITHOPHYLLUM (?) FETUM Foslie
Lemoine, 1929
Is. Cocos, Costa Rica
- LITHOPHYLLUM GRUMOSUM Foslie
Smith, 1944
Pacific Grove to San Diego, Calif.
- LITHOPHYLLUM HANCOCKII Dawson
Dawson, 1944
Is. Espíritu Santo, Gulf of Calif.
- LITHOPHYLLUM IMITANS Foslie
Foslie, 1929
Southern Calif.
- LITHOPHYLLUM LITHOPHYLLOIDES Heydrich
Dawson, 1944
Is. Angel de la Guarda to Is. Espíritu Santo, Gulf of
Calif.

- LITHOPHYLLUM (?) LIVIDUM Lemoine
Lemoine, 1929
Is. Cocos, Costa Rica
- LITHOPHYLLUM MARGARITAE (Hariot) Heydrich
Dawson, 1944; *Lithophyllum elegans* in Setchell & Ma-
son, 1943
La Paz, Baja Calif.
- LITHOPHYLLUM NEOFARLOWII Setchell & Mason
Smith, 1944
Fort Bragg to Carmel Bay, Calif.
- LITHOPHYLLUM PALLESCENS (Foslie) Heydrich
Dawson, 1944
Is. Espiritu Santo, Gulf of Calif.
- LITHOPHYLLUM PROBOSCIDIUM Foslie
Smith, 1944
Monterey; San Pedro, Calif.
- LITHOPHYLLUM (?) PROPINQUUM var. COCOSICA Lemoine
Lemoine, 1929
Is. Cocos, Costa Rica
- LITHOPHYLLUM TRICHOTOMUM (Heydrich) Lemoine
Dawson, 1944; Taylor, 1945; *Neogoniolithon trichoto-*
mum in Setchell & Mason, 1943A
Is. Angel de la Guarda, Gulf of Calif. to Is. Clarion,
Revilla Gigedo Arch.
- LITHOPHYLLUM VELEROAE Dawson
Dawson, 1944
Is. Espiritu Santo, Gulf of Calif.
- LITHOPHYLLUM WHIDBEYENSE Foslie
Setchell & Mason, 1943
Vancouver Is., B. C.; Puget Sound, Wash.
- CORALLINA CHILENSIS Decaisne
Smith, 1944; Taylor, 1945; Dawson, 1945E
Vancouver Is., B. C. to Cabo San Lazaro, Baja Calif.
- CORALLINA CUBENSIS (Montagne) Kützing
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.
- CORALLINA GRACILIS Lamouroux
Dawson, 1945B; Taylor, 1945
Southern Calif. to Is. Cedros, Baja Calif.
- CORALLINA GRACILIS var. DENSA Collins
Smith, 1944; Dawson, 1945B; 1945E
Marin Co., Calif. to Cabo Colnett, Baja Calif.

- CORALLINA GRACILIS var. LYCOPODIOIDES Taylor
Taylor, 1945
Is. Cedros, Baja Calif.
- CORALLINA PILULIFERA Postels & Ruprecht
Dawson, 1944; *Corallina officinalis* f. *pilulifera* in Setchell & Gardner, 1903
Alaska; Gulf of Calif. ?
- CORALLINA SUBULATA Solander
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif. ?
- CORALLINA VANCOUVERIENSIS Yendo
Yendo, 1902; Taylor, 1945
Port Renfrew, Vancouver Is., B. C.; Cabo San Lazaro, Baja Calif.
- PACHYARTHON CRETACEUM (Postels & Ruprecht) Manza
Manza, 1940
Unalaska, Alaska
- LITHOTHRIX ASPERGILLUM J. E. Gray
Smith 1944; Taylor, 1945; Dawson, 1945E
Vancouver Is., B. C. to Is. Cedros, Baja Calif.
- JOCULATOR PINNATIFOLIUS Manza
Manza, 1940
Orange and San Diego Counties, Calif.
- BOSSEA ANGUSTATA Taylor
Taylor, 1945
Is. San Benito, Baja Calif.
- BOSSEA CALIFORNICA (Decaisne) Manza
Smith, 1944
Monterey, Calif.
- BOSSEA CORYMBIFERA Manza
Smith, 1944
Point Lobos, Carmel Bay, Calif.
- BOSSEA DICHOTOMA Manza
Smith, 1944
Moss Beach, San Mateo Co.; Monterey Peninsula, Calif.
- BOSSEA FRONDIFERA Manza
Manza, 1940; Dawson, 1945E
Moss Beach, San Mateo Co., Calif.; Punta Descanso, Baja Calif.
- BOSSEA GARDNERI Manza
Smith, 1944; Taylor, 1945
Duxbury Reef, Marin Co., Calif. to Is. Cedros, Baja Calif.

BOSSEA INTERRUPTA Manza

Smith, 1944
Pacific Grove, Calif.

BOSSEA ORBIGNIANA (Decaisne) Manza

Smith, 1944; Dawson, 1945E
Cape Arago, Oregon; Monterey, Calif. to Cabo Colnett,
Baja Calif.

BOSSEA PACHYCLADA Taylor

Taylor, 1945
Is. Cedros, Baja Calif.

BOSSEA PLUMOSA Manza

Smith, 1944
Moss Beach, San Mateo Co.; Monterey Peninsula, Calif.

JANIA ADHAERENS Lamouroux

Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.

JANIA CAPILLACEA Harvey

Taylor, 1939; 1945
Is. Socorro, Revilla Gigedo Arch.; Clipperton Is.

JANIA MEXICANA Taylor

Taylor, 1945
Bahía Tangola-Tangola, Oaxaca; Bahía Petatlán, Guerrero

JANIA RUBENS Lamouroux

Setchell & Gardner, 1930; Dawson, 1944
Is. Guadalupe, Baja Calif.; Pond Is., Gulf of Calif. to
Guaymas, Sonora

AMPHIROA ANNULATA Lemoine

Taylor, 1945
Is. Socorro, Revilla Gigedo Arch.; Golfo Dulce, Costa
Rica

AMPHIROA COMPRESSA var. *TENUIS* Taylor

Taylor, 1945
Is. María Magdalena, Nayarit

AMPHIROA CROSSLANDII Lemoine

Taylor, 1945; Lemoine, 1929
Is. Socorro, Revilla Gigedo Arch.; Tangola-Tangola,
Oaxaca; Is. Gorgona, Gulf of Panamá

AMPHIROA DIMORPHA Lemoine

Taylor, 1945
Is. Isabel, Nayarit

- AMPHIROA FOLIACEA Lamouroux
Taylor, 1945
Is. María Magdalena, Nayarit
- AMPHIROA FRAGILISSIMA (Linnaeus) Lamouroux
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.
- AMPHIROA FRANCISCANA Taylor
Taylor, 1945
Is. María Magdalena, Nayarit
- AMPHIROA MEXICANA Taylor
Taylor, 1945
Morro de Petatlán, Guerrero
- AMPHIROA MINUTISSIMA Taylor
Taylor, 1945
Golfo Dulce, Costa Rica
- AMPHIROA PENINSULARIS Taylor
Taylor, 1945
San Diego, Calif.; Is. Cedros, Baja Calif.; Is. María
Magdalena, Nayarit; Bahía Petatlán, Guerrero
- AMPHIROA POLYMORPHA Lemoine
Taylor, 1945
Golfo Dulce, Costa Rica
- AMPHIROA PUSILLA Yendo
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif. to Guaymas,
Sonora
- AMPHIROA RIGIDA Lamouroux
Dawson, 1944
Bahía Tepoca to Guaymas, Sonora
- AMPHIROA ZONATA Yendo
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif. to Guaymas,
Sonora
- CALLIARTHRON CHEILOSPORIOIDES Manza
Smith, 1944
Bolas to San Pedro, Calif.
- CALLIARTHRON PINNULATUM Manza
Manza, 1940
Puget Sound, Wash.; ?; Moss Beach, San Mateo Co.,
Calif.
- CALLIARTHRON REGENERANS Manza
Manza, 1940
Moss Beach, San Mateo Co., Calif.

CALLIARTHRON SETCHELLIAE Manza
Smith, 1944
Moss Beach, San Mateo Co.; Monterey, Calif.

CALLIARTHRON SCHMITTII Manza
Manza, 1940
San Diego, Calif.

Fam. Dermocorynidaceae

DERMOCORYNUS OCCIDENTALIS Hollenberg
Hollenberg, 1940
Los Angeles Co., Calif. to Punta Banda, Baja Calif.

Fam. Grateloupiaceae

GRATELOUPIA ABREVIATA Kylin
Kylin, 1941
La Jolla, Calif.

GRATELOUPIA ACROIDALEA Setchell & Gardner
Dawson, 1944
Guaymas, Sonora

GRATELOUPIA CALIFORNICA Kylin
Smith, 1944; Dawson, 1945E
Puget Sound, Wash. to Cabo Colnett, Baja Calif.

GRATELOUPIA CERROSIANA Taylor
Taylor, 1945
Is. Cedros, Baja Calif.

GRATELOUPIA FILICINA (Wulfen) C. Agardh
Taylor, 1945; Dawson, 1945E
Punta Descanso; Cabo Colnett, Baja Calif.; Bahía Petatlán, Guerrero

GRATELOUPIA (?) *HANCOCKII* Dawson
Dawson, 1944
Kino, Sonora

GRATELOUPIA HOWEII Setchell & Gardner
Dawson, 1944
Is. San Esteban, Gulf of Calif.

GRATELOUPIA JOHNSTONII Setchell & Gardner
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif.

- GRATELOUPIA MAXIMA (Gardner) Kylin
Kylin, 1941
San Francisco; La Jolla, Calif.
- GRATELOUPIA PINNATA (Postels & Ruprecht) Setchell
Kylin, 1925
Sitka, Alaska to Tracyton, Wash.
- GRATELOUPIA PROLONGATA J. Agardh
Dawson, 1944; 1945C; 1945E
La Jolla, Calif. to central Mexico
- GRATELOUPIA SETCHELLII Kylin
Smith, 1944
Monterey, Calif.
- GRATELOUPIA SQUARRULOSA Setchell & Gardner
Dawson, 1944
Smith Is., Gulf of Calif.
- CRYPTONEMIA BOREALIS Kylin
Kylin, 1925
San Juan Co., Wash.
- CRYPTONEMIA DECOLORATA Taylor
Taylor, 1945
Is. María Magdalena, Nayarit
- CRYPTONEMIA OBOVATA J. Agardh
Kylin, 1941; Dawson, 1945B
San Francisco; La Jolla, Calif.
- CRYPTONEMIA OVALIFOLIA Kylin
Smith, 1944; Sanborn & Doty, 1946
Coos Bay, Oregon; Pacific Grove, Calif.
- AEODES GARDNERI Kylin
Smith, 1944
Puget Sound, Wash. to San Pedro, Calif.
- ESTEBANIA CONJUNTA Setchell & Gardner
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif. to Guaymas, Sonora
- POLYOPES BUSHIAE Farlow
Kylin, 1941; Taylor, 1945
San Pedro, Calif. to Is. Cedros, Baja Calif.
- POLYOPES CLARIONENSIS Setchell & Gardner
Setchell & Gardner, 1937A
Is. Clarion, Revilla Gigedo Arch.

- POLYOPES SINICOLA Setchell & Gardner
Dawson, 1944
Northern Gulf of Calif.
- HALYMENIA (?) ABYSSICOLA Dawson
Dawson, 1944
Is. Partida, Gulf of Calif.
- HALYMENIA ACTINOPHYSA Howe
Dawson, 1944; Taylor, 1945
Punta Peñasco, Sonora; Is. Tiburón, Gulf of Calif.; Is.
Clarion; Is. Socorro, Revilla Gigedo Arch.
- HALYMENIA AGARDHII DeToni
Taylor, 1945
Is. María Magdalena, Nayarit
- HALYMENIA CALIFORNICA Smith & Hollenberg
Smith, 1944
Monterey Peninsula, Calif.
- HALYMENIA (?) REFUGIENSIS Dawson
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif.
- ZANARDINULA ABBREVIATA (Setchell & Gardner) J. DeToni
J. DeToni, 1936; *Prionitis abbreviata* in Dawson, 1944
Is. San Esteban, Gulf of Calif. to Guaymas, Sonora
- ZANARDINULA ANDERSONIANA (Eaton) Papenfuss
Papenfuss, 1943; Dawson, 1945B; 1945E; *Prionitis And-
ersoniana* in Smith, 1944; Sanborn & Doty, 1946
Coos Bay, Oregon to Cabo Colnett, Baja Calif.
- ZANARDINULA AUSTRALIS (J. Agardh) Papenfuss
Papenfuss, 1943; *Prionitis australis* in Smith, 1944
Monterey, Calif.
- ZANARDINULA FILIFORMIS (Kylin) Papenfuss
Papenfuss, 1943; *Prionitis filiformis* in Smith, 1944;
Taylor, 1945
Cape Arago, Oregon to Is. Cedros, Baja Calif.
- ZANARDINULA FILIFORMIS var. DELICATULA (Taylor) Dawson
Dawson, 1945D; *Prionitis filiformis* var. *delicatula* in
Taylor, 1945
Is. Cedros, Baja Calif.
- ZANARDINULA GUAYMASENSIS (Dawson) Dawson
Dawson, 1945D; *Prionitis guaymasensis* in Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif. to Guaymas, So-
nora

ZANARDINULA KINOENSIS (Dawson) Dawson
Dawson, 1945D; *Prionitis kinoensis* in Dawson, 1944
Kino, Sonora

ZANARDINULA LANCEOLATA (Harvey) J. DeToni
J. DeToni, 1936; *Prionitis lanceolata* in Smith, 1944
Vancouver Is., B. C. to San Pedro, Calif.

ZANARDINULA LINEARIS (Kylin) Papenfuss
Papenfuss, 1943; Dawson, 1945E; *Prionitis linearis* in
Smith, 1944
San Mateo Co., Calif. to Punta Descanso, Baja Calif.

ZANARDINULA LYALLII (Harvey) J. DeToni
J. DeToni, 1936; *Prionitis Lyallii* in Smith, 1944; Taylor,
1945
Vancouver Is., B. C. to Carmel Bay, Calif.; Bahía Mag-
dalena, Baja Calif. ?

ZANARDINULA MEXICANA (Dawson) Dawson
Dawson, 1945D; *Prionitis mexicana* in Dawson, 1944
Bahía Santa María; San Jose del Cabo; Baja Calif.

ZANARDINULA STERNBERGII (C. Agardh) J. DeToni
J. DeToni, 1936; *Prionitis Sternbergii* in Dawson, 1944
Georges Is., Gulf of Calif. to central Mexico

LOBOCOLAX DEFORMANS Howe
Smith, 1944; Taylor, 1945; Dawson, 1945E
Monterey, Calif.; Punta Descanso; Is. Cedros, Baja
Calif.

Fam. Kallymeniaceae

KALLYMENIA ANGUSTATA Setchell & Gardner
Dawson, 1944; 1945C; Setchell & Gardner, 1937
Mission Beach, Calif.; Bahía Santa María, Baja Calif.;
Bahía Tepoca, Sonora

KALLYMENIA GUAYMASENSIS Dawson
Dawson, 1944
Guaymas, Sonora

KALLYMENIA OBLONGIFRUCTA Setchell
Kylin, 1925; Setchell, 1912
Sitka; Seldovia, Alaska to Puget Sound, Wash.

KALLYMENIA ORNATA (Postels & Ruprecht) J. Agardh
Setchell & Gardner, 1903; Collins, 1913
Yakutat Bay, Alaska to Vancouver Is., B. C.

KALLYMENIA PERTUSA Setchell & Gardner
Dawson, 1944
Is. San Pedro Martir, Gulf of Calif.

KALLYMENIA RENIFORMIS (Turner) J. Agardh
Setchell & Gardner, 1903; Collins, 1913
Esquimault, B. C.

KALLYMENIA RENIFORMIS f. CUNEATA J. Agardh
Setchell & Gardner, 1903
Unalaska; Morzhovoi Bay, Alaska

KALLYMENIA TENUIFOLIA Taylor
Taylor, 1945
Is. Socorro, Revilla Gigedo Arch.

KALLYMENIA VELEROAE Dawson
Dawson, 1944
Guaymas, Sonora

MEREDITHIA CALIFORNICA J. Agardh
Kylin, 1941; J. Agardh, 1899
California (locality unknown)

PUGETIA FIRMA Kylin
Smith, 1944
Monterey Peninsula, Calif.

PUGETIA FRAGILISSIMA Kylin
Kylin, 1925; Sanborn & Doty, 1946
Friday Harbor, Wash.; Coos Bay, Oregon

CALLOPHYLLIS ACROCARPA Setchell
Setchell, 1923A
Santa Cruz to Santa Barbara, Calif.

CALLOPHYLLIS CRASSIFOLIA Setchell & Swezy
Smith, 1944
San Mateo Co. to Carmel, Calif.

CALLOPHYLLIS CREMULATA Setchell
Smith, 1944
Whidbey Is., Wash.; Pacific Grove, Calif.

CALLOPHYLLIS DISSECTA Setchell & Swezy
Kylin, 1941
La Jolla, Calif.

CALLOPHYLLIS EDENTATA Kylin
Kylin, 1925
Friday Harbor, Wash.

- CALLOPHYLLIS FILICINA Setchell & Swezy
Setchell, 1923A
Venice to La Jolla, Calif.
- CALLOPHYLLIS FLABELLULATA Harvey
Kylin, 1925; Sanborn & Doty, 1946
Esquimault, B. C. to Coos Bay, Oregon
- CALLOPHYLLIS GARDNERI Setchell
Setchell, 1923A
Venice to Redondo, Calif.
- CALLOPHYLLIS HEANOPHYLLA Setchell
Kylin, 1925; Sanborn & Doty, 1946
Friday Harbor, Wash. to Coos Bay, Oregon
- CALLOPHYLLIS JOHNSTONII Setchell & Gardner
Dawson, 1944
Is. Tortuga, Gulf of Calif.
- CALLOPHYLLIS MARGINIFRUCTA Setchell & Swezy
Smith, 1944; Sanborn & Doty, 1946
Coos Bay, Oregon to San Diego, Calif.
- CALLOPHYLLIS MEGALOCARPA Setchell & Swezy
Smith, 1944; Dawson, 1945E
Whidbey Is., Wash. to Santa Barbara, Calif.; Punta
Descanso, Baja Calif.
- CALLOPHYLLIS OBTUSIFOLIA J. Agardh
Smith, 1944
Santa Cruz to San Pedro, Calif.
- CALLOPHYLLIS ODONTHALIOIDES Setchell
Setchell, 1923A
Santa Cruz to San Diego, Calif.
- CALLOPHYLLIS PINNATA Setchell & Swezy
Smith, 1944; Dawson, 1945E
Marin Co. to Carmel, Calif.; Punta Descanso; Cabo
Colnett, Baja Calif.
- CALLOPHYLLIS PLUMOSA Setchell & Swezy
Setchell, 1923A
San Pedro to La Jolla, Calif.
- CALLOPHYLLIS STENOPHYLLA Setchell
Setchell, 1923A
Bolas, Calif.
- CALLOPHYLLIS THOMPSONII Setchell
Setchell, 1923A
San Juan Co., Wash.

CALLOPHYLLIS VIOLACEA J. Agardh
Kylin, 1941; Taylor, 1945; Dawson, 1945E
Santa Barbara, Calif. to Cabo San Lazaro, Baja Calif.

CALLOCOLAX FUNGIFORMIS Kylin
Kylin, 1925
Friday Harbor, Wash.

CALLOCOLAX GLOBULOSIS Dawson
Dawson, 1945D
San Diego, Calif.

CALLOCOLAX NEGLECTUS Schmitz
Smith, 1944
Monterey, Calif.

Fam. **Choreocolaceae**

CHOREOCOLAX POLYSIPHONIAE Reinsch
Smith, 1944; Dawson, 1945E
Sitka, Alaska; Monterey, Calif.; Cabo Colnett, Baja
Calif.

Order **GIGARTINALES**

Fam. **Nemastomaceae**

PREDAEA MASONII (Setchell & Gardner) J. DeToni
J. DeToni, 1936; *Clarionea Masonii* in Setchell & Gardner, 1930
Is. Clarion, Revilla Gigedo Arch.

SCHIZYMENIA EPIPHYTICA (Setchell & Lawson) Smith & Hollenberg
Smith, 1944; Papenfuss, 1944A
Monterey Peninsula, Calif.

SCHIZYMENIA JOHNSTONII Setchell & Gardner
Dawson, 1944
Is. San Esteban, Gulf of Calif.

SCHIZYMENIA PACIFICA Kylin
Smith, 1944; Dawson, 1945E
Unga Is., Alaska to Punta Descanso, Baja Calif.

Fam. Solieriaceae

TURNERELLA MERTENSIANA (Postels & Ruprecht) Schmitz
Setchell & Gardner, 1903; Collins, 1913
Shumagin Is., Alaska to Victoria, B. C. ?

EUCHEUMA UNCINATUM Setchell & Gardner
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif. to Mazatlán, Sinaloa

AGARDHIELLA COULTERI (Harvey & Bailey) Setchell
Smith, 1944; Dawson, 1945E
Vancouver Is., B. C. to Cabo Colnett, Baja Calif.

AGARDHIELLA MEXICANA Dawson
Dawson, 1944; 1945E
Bahía Gonzaga, Baja Calif.; Is. Angel de la Guarda,
Gulf of Calif.; Cabo Colnett, Baja Calif.

AGARDHIELLA TENERA (J. Agardh) Schmitz
Dawson, 1944; Taylor, 1945
San Jose del Cabo, Baja Calif.; Is. Clarion, Revilla
Gigedo Arch.

GARDNERIELLA TUBIFERA Kylin
Smith, 1944; Dawson, 1945E
Monterey Peninsula, Calif.; Punta Descanso; Cabo Col-
nett, Baja Calif.

OPUNTIELLA CALIFORNICA (Farlow) Kylin
Smith, 1944
Unga Is., Alaska to San Diego, Calif.

SARCODIOTHECA CUNEATA Setchell & Gardner
Setchell & Gardner, 1937A
Is. San Martin, Baja Calif.

SARCODIOTHECA DICHOTOMA (Howe) Dawson
Dawson, 1944
Guaymas, Sonora to La Paz, Baja Calif.

SARCODIOTHECA ECUADOREANA Taylor
Taylor, 1945
Is. María Magdalena, Nayarit; Puerto Culebra, Costa
Rica

SARCODIOTHECA ELONGATA (Setchell & Gardner) Setchell
Dawson, 1944
Is. Tiburón; Is. San Pedro Martir, Gulf of Calif.

SARCODIOTHECA FURCATA (Setchell & Gardner) Kylin
Kylin, 1932
Friday Harbor, Wash.

SARCODIOTHECA LINEARIS Setchell & Gardner
Dawson, 1944
Cape district, Baja Calif.

SARCODIOTHECA MERIDIONALIS Setchell & Gardner
Setchell & Gardner, 1937A
Is. San Martin, Baja Calif.

Fam. Hypneaceae

HYPNEA ADUNCA J. Agardh
Kylin, 1941
Santa Barbara; San Diego, Calif.

HYPNEA CALIFORNICA Kylin
Kylin, 1941; Taylor, 1945
La Jolla, Calif.; Bahía Petatlán, Guerrero

HYPNEA ESPERI Bory
Dawson, 1944; 1946
La Jolla, Calif.; Ensenada, Baja Calif.; Is. Tiburón,
Gulf of Calif. to Bahía Agua Verde, Baja Calif.

HYPNEA EVERMANII Setchell & Gardner
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.

HYPNEA JOHNSTONII Setchell & Gardner
Dawson, 1944; Taylor, 1945
Cabo San Lazaro; Bahía Santa María, Baja Calif.; Pond
Is., Gulf of Calif. to Guaymas, Sonora

HYPNEA NIDIFICA J. Agardh
Dawson, 1944
Punta Peñasco, Sonora to Costa Rica

HYPNEA NIDULANS Setchell
Dawson, 1944
Pond Is., Gulf of Calif. to Bahía Agua Verde, Baja
Calif.

HYPNEA PANNOSA J. Agardh
Dawson, 1944; Taylor, 1945
Is. Tiburón, Gulf of Calif. to Is. Secas, Panamá

HYPNEA SPINELLA (C. Agardh) Kützing
Taylor, 1945
Bahía Petatlán, Guerrero

HYPNEA VARIABILIS Okamura
Dawson, 1946
La Jolla, Calif.; Ensenada, Baja Calif.

Fam. Rhodophyllidaceae

EUTHORA CRISTATA (Linnaeus) J. Agardh
Setchell & Gardner, 1903
Shumagin Is. to Cook Inlet, Alaska

EUTHORA FRUTICULOSA (Ruprecht) J. Agardh
Kylin, 1925
Vancouver Is., B. C. to Friday Harbor, Wash.

RHODOPHYLLIS DICHOTOMA f. SETACEA Kjellman
Setchell & Gardner, 1903
Unalaska, Alaska

Fam. Plocamiaceae

PLOCAMIUM PACIFICUM Kylin
Smith, 1944; Taylor, 1945; Dawson, 1945E
Vancouver Is., B. C. to Is. Clarion, Revilla Gigedo Arch.

PLOCAMIUM TENUE Kylin
Kylin, 1925
Friday Harbor, Wash.

PLOCAMIUM VIOLACEUM Farlow
Smith, 1944
Vancouver Is., B. C. to San Diego, Calif.

PLOCAMIOCOLAX PULVINATA Setchell
Smith, 1944; Dawson, 1945C
San Juan Is., Wash. to La Jolla, Calif.

Fam. Gracilariaceae

CORALLOPSIS SALICORNIA (C. Agardh) Greville
Kylin, 1932
Unalaska, Alaska (a very doubtful record)

GRACILARIA ANDERSONII (Grunow) Kylin
Kylin, 1941; Dawson, 1945E
La Jolla, Calif. to Cabo Colnett, Baja Calif.

GRACILARIA CERROSIANA Taylor
Taylor, 1945
Is. Cedros, Baja Calif.

GRACILARIA COMPRESSA (C. Agardh) Greville
Dawson, 1944
Vicinity of Guaymas, Sonora

- GRACILARIA CONFEROIDES (Linnaeus) Greville
Dawson, 1944; 1945B; Taylor, 1945
San Diego, Calif.; Gulf of Calif.; Is. Clarion, Revilla
Gigedo Arch.
- GRACILARIA CRISPATA Setchell & Gardner
Dawson, 1944
Is. Tiburón, Gulf of Calif.; Is. Clarion, Revilla Gigedo
Arch.; Bahía Banderas
- GRACILARIA GUAYMASENSIS Dawson
Dawson, 1944
Guaymas, Sonora
- GRACILARIA HANCOCKII Dawson
Dawson, 1944
Is. Angel de la Guarda; Is. Tiburón, Gulf of Calif.
- GRACILARIA JOHNSTONII Setchell & Gardner
Dawson, 1944; Taylor, 1945
Punta Turloe, Baja Calif. to Is. Isabel, Nayarit; Gulf of
Calif.
- GRACILARIA LACERATA Setchell & Gardner
Dawson, 1944
Santa Rosalia, Baja Calif.; Guaymas, Sonora
- GRACILARIA LICHENOIDES (Linnaeus) Harvey
Dawson, 1944
Bahía Concepción, Baja Calif. (doubtful)
- GRACILARIA LINEARIS Kylin
Smith, 1944; Dawson, 1945B; 1945E
Monterey Peninsula; San Pedro, Calif.; Punta Des-
canso, Baja Calif.
- GRACILARIA PACHYDERMATICA Setchell & Gardner
Dawson, 1944
Is. Tortuga, Gulf of Calif.
- GRACILARIA PANAMENSIS Taylor
Taylor, 1945
Puerto Culebra, Costa Rica; Is. Taboga, Panamá
- GRACILARIA PINNATA Setchell & Gardner
Dawson, 1944; Taylor, 1939; 1945
Bahía Magdalena, Baja Calif.; Is. Angel de la Guarda,
Gulf of Calif. to Is. María Magdalena, Nayarit
- GRACILARIA ROBUSTA Setchell
Smith, 1944
Monterey Peninsula, Calif.

GRACILARIA SJOESTEDTII Kylin

Smith, 1944; Dawson, 1944; 1945E

Vancouver Is., B. C. to Cabo Colnett, Baja Calif.; Bahía Tepoca, Sonora

GRACILARIA SUBSECUNDATA Setchell & Gardner

Dawson, 1944

Guaymas, Sonora

GRACILARIA TENUIFOLIA Taylor

Taylor, 1945

Is. Socorro; Is. Clarion, Revilla Gigedo Arch.

GRACILARIA VELEROAE Dawson

Dawson, 1944; 1946

Bahía San Felipe, Baja Calif. to Guaymas, Sonora; La Jolla; Coronado, Calif.; Is. Socorro; Is. Clarion, Revilla Gigedo Arch.

GRACILARIA VIVESII Howe

Dawson, 1944

Guaymas, Sonora to La Paz, Baja Calif.

GRACILARIOPHILA GARDNERI Setchell

Setchell, 1923; Dawson, 1945C

Santa Monica to La Jolla, Calif.

GRACILARIOPHILA ORYZOIDES Setchell & Wilson

Smith, 1944; Dawson, 1945E

Coos Bay, Oregon to Cabo Colnett, Baja Calif.

TYLOTUS CUNNINGHAMII (J. Agardh) Kylin

Kylin, 1941; Dawson, 1945C

Santa Barbara to La Jolla, Calif.

Fam. Dicranemaceae*DICRANEMA ROSALIAE* Setchell & Gardner

Dawson, 1944

Is. Angel de la Guarda to Is. Espíritu Santo, Gulf of Calif.

Fam. Phylloporaceae*PHYLLOPHORA CALIFORNICA* (J. Agardh) Kylin

Kylin, 1932

San Francisco, Calif.

PHYLLOPHORA CLEVELANDII Farlow

Smith, 1944

Bolinás, Calif. to near Rosarita Beach, Baja Calif.

- PETROGLOSSUM PACIFICUM Hollenberg
Hollenberg, 1943; 1945
Coos Bay, Oregon to La Jolla, Calif.
- PETROGLOSSUM PARVUM Hollenberg
Hollenberg, 1945
Laguna Beach; La Jolla, Calif.
- AHNFELTIA GIGARTINOIDES J. Agardh
Smith, 1944; Taylor, 1945
Vancouver Is. B. C. to San Agustin, Oaxaca
- AHNFELTIA PLICATA (Hudson) Fries
Smith, 1944
Bering Sea to Carmel, Calif.
- GYMNOGONGRUS CARNOSUS Setchell & Gardner
Dawson, 1944
Is. San Pedro Martir, Gulf of Calif.
- GYMNOGONGRUS DIVARICATUS Holmes
Dawson, 1944
Turner's Is., Gulf of Calif.
- GYMNOGONGRUS HANCOCKII Dawson
Dawson, 1944
Kino, Sonora
- GYMNOGONGRUS LEPTOPHYLLUS J. Agardh
Smith, 1944; Dawson, 1945E
San Francisco to San Diego, Calif.; Cabo Colnett, Baja
Calif.
- GYMNOGONGRUS LINEARIS (Turner) J. Agardh
Smith, 1944
Coos Bay, Oregon to San Luis Obispo Co., Calif.
- GYMNOGONGRUS MARTINENSIS Setchell & Gardner
Setchell & Gardner, 1937A; Taylor, 1945
Is. San Martin, Bahía San Bartolomé, Baja Calif.; Is.
Socorro, Revilla Gigedo Arch.
- GYMNOGONGRUS NORVEGICUS (Turner) J. Agardh
Collins, 1913
Ucluelet, Vancouver, B. C.
- GYMNOGONGRUS PLATYPHYLLUS Gardner
Smith, 1944
Bolinás, Calif. to Ensenada, Baja Calif.
- GYMNOGONGRUS SINICOLA Dawson
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif. to Guaymas, So-
nora

STENOGRAMME CALIFORNICA Harvey

Smith, 1944

San Juan Is., Wash. to San Diego, Calif.

STENOGRAMME INTERRUPTA (C. Agardh) Montagne

Taylor, 1945

Is. Clarion; Is. Socorro, Revilla Gigedo Arch.

Fam. Gigartinaceae*CHONDRUS CRISPUS* (Linnaeus) Lyngbye

Setchell & Gardner, 1903

Bering Sea to Unalaska, Alaska

GIGARTINA AGARDHII Setchell & Gardner

Smith, 1944; Sanborn & Doty, 1946

Coos Bay, Oregon to La Jolla, Calif.

GIGARTINA ARMATA J. Agardh

Setchell & Gardner, 1933; Taylor, 1945

San Diego, Calif. to Is. Cedros, Baja Calif.

GIGARTINA ASPERIFOLIA J. Agardh

Setchell & Gardner, 1933

Santa Barbara to La Jolla, Calif.

GIGARTINA BINGHAMIAE J. Agardh

Setchell & Gardner, 1933; Sanborn & Doty, 1946

Coos Bay, Oregon; Southern Calif.; Puget Sound ?

GIGARTINA BORYI Setchell & Gardner

Smith, 1944

Pacific Grove to San Diego, Calif.

GIGARTINA CALIFORNICA J. Agardh

Smith, 1944; Sanborn & Doty, 1946; Dawson, 1945E

Coos Bay, Oregon to Carmel, Calif.; Punta Descanso;
Cabo Colnett, Baja Calif.*GITARTINA CANALICULATA* Harvey

Smith, 1944; Dawson, 1945E

Coos Bay, Oregon to Cabo Colnett, Baja Calif.

GIGARTINA CORYMBIFERA (Kützinger) J. Agardh

Smith, 1944

Fort Ross to San Diego, Calif.

GIGARTINA CRISTATA (Setchell) Setchell & Gardner

Smith, 1944; Dawson, 1945E

Westport, Wash. to Point Sur, Calif.; Punta Descanso,
Baja Calif.

- GIGARTINA DICHOTOMA Gardner
Setchell & Gardner, 1933
Duxbury Reef, Marin Co. to Point Sur, Calif.
- GIGARTINA EATONIANA J. Agardh
Setchell & Gardner, 1933; Dawson, 1944
Santa Barbara to La Jolla, Calif.; Puerto Libertad, Sonora to Is. Tiburón, Gulf of Calif.
- GIGARTINA ECHINATA Gardner
Setchell & Gardner, 1933
Santa Cruz (?); Santa Catalina Is.; La Jolla, Calif.
- GIGARTINA EXASPERATA Harvey & Bailey
Setchell & Gardner, 1933
Vancouver Is., B. C. to northern Calif.
- GIGARTINA HARVEYANA (Kützinger) Setchell & Gardner
Smith, 1944; Dawson, 1945E
Santa Cruz, Calif. to Punta Descanso, Baja Calif.
- GIGARTINA JARDINII J. Agardh
Setchell & Gardner, 1933
Monterey; Santa Barbara, Calif.
- GIGARTINA JOHNSTONII Dawson
Dawson, 1944
Bahía Gonzaga, Baja Calif. to Turner's Is., Gulf of Calif.
- GIGARTINA LATISSIMA (Harvey) Eaton
Setchell & Gardner, 1933
Near Esquimaux, B. C.
- GIGARTINA LEPTORHYNCHOS J. Agardh
Smith, 1944; Taylor, 1945; Dawson, 1945E
Santa Cruz, Calif. to Is. Cedros, Baja Calif.
- GIGARTINA MACDOUGALII Dawson
Dawson, 1944
Puerto Libertad, Sonora
- GIGARTINA MAMILLOSA (Goodenough & Woodward) J. Agardh
Setchell & Gardner, 1933
Westport, Wash.; Seal Rocks, Oregon
- GIGARTINA MULTIDICHOTOMA Dawson
Dawson, 1946
La Jolla, Calif.; Punta Descanso, Baja Calif.
- GIGARTINA OBOVATA J. Agardh
Setchell & Gardner, 1933
San Francisco, Calif.

- GIGARTINA PAPILLATA (C. Agardh) J. Agardh
Smith, 1944; Dawson, 1945E
Tomaes Bay to Carmel, Calif.; Punta Descanso, Baja Calif.
- GIGARTINA PECTINATA Dawson
Dawson, 1944; 1946
Punta Peñasco, Sonora; Bahía Los Angeles; Is. Angel de la Guarda, Gulf of Calif.
- GIGARTINA SERRATA Gardner
Setchell & Gardner, 1933; Taylor, 1945
Balboa, Calif. to Is. Cedros, Baja Calif.
- GIGARTINA SITCHENSIS Ruprecht
Setchell & Gardner, 1933
Sitka, Alaska to Whidbey Is., Wash.
- GIGARTINA SPINOSA (Kützing) Harvey
Smith, 1944; Dawson, 1945E
Monterey, Calif. to Punta Descanso, Baja Calif.
- GIGARTINA STELLATA (Stackhouse) Batters
Setchell & Gardner, 1933
West Coast of Vancouver Is., B. C.
- GIGARTINA TEPIDA Hollenberg
Hollenberg, 1945; Dawson, 1944 as *G. Teedii*
Balboa Harbor, Calif.; Guaymas, Sonora
- GIGARTINA TURNERI Setchell & Gardner
Setchell & Gardner, 1933; Dawson, 1945B
Southern Calif. ?
- GIGARTINA UNALASCHCENSIS (Ruprecht) Ruprecht
Setchell & Gardner, 1933
Bering Sea to Whidbey Is., Wash.
- RHODOGLOSSUM AFFINE (Harvey) Kylin
Smith, 1944; Sanborn & Doty, 1946; Dawson, 1945E
Coos Bay, Oregon to Punta Descanso, Baja Calif.
- RHODOGLOSSUM AMERICANUM Kylin
Smith, 1944; Dawson, 1945B; 1946
Bollinas to Carmel; Coronado, Calif.; Cabo Colnett, Baja Calif.
- RHODOGLOSSUM CORIACEUM Dawson
Dawson, 1946
Punta Banda; Punta Descanso, Baja Calif.
- RHODOGLOSSUM HANCOCKII Dawson
Dawson, 1944
Is. San Esteban, Gulf of Calif.

- RHODOGLOSSUM LATISSIMUM J. Agardh
Kylin, 1925
Whidbey Is., Wash.
- RHODOGLOSSUM PARVUM Smith & Hollenberg
Smith, 1944
Monterey, Calif.
- RHODOGLOSSUM ROSEUM (Kylin) G. M. Smith
Smith, 1944; Dawson, 1946
Monterey Peninsula, Calif.; Punta Descanso, Baja Calif.
- IRIDOPHYCUS CALIFORNICUM (J. Agardh) Dawson
Dawson, 1945D; *Iridea californica* in Kylin, 1941
Santa Barbara, Calif.
- IRIDOPHYCUS CORDATUM (Turner) Setchell & Gardner
Setchell, 1940; Setchell & Gardner, 1937
Table and Calvert Is.; Vancouver Is., B. C.; Whidbey
Is., Wash.
- IRIDOPHYCUS CORIACEUM Setchell & Gardner
Smith, 1944
Neah Bay, Wash. to Carmel, Calif.
- IRIDOPHYCUS FLACCIDUM Setchell & Gardner
Smith, 1944; Sanborn & Doty, 1946
Coos Bay, Oregon to Point Sur, Calif.
- IRIDOPHYCUS FULGENS Setchell & Gardner
Setchell & Gardner, 1937
Trinidad, Humboldt Co. to central Calif.
- IRIDOPHYCUS FURCATUM Setchell & Gardner
Setchell & Gardner, 1937
Sitka, Alaska
- IRIDOPHYCUS HETEROCARPUM (Postels & Ruprecht) Setchell
& Gardner
Smith, 1944
Vancouver Is., B. C. to Point Sur, Calif.
- IRIDOPHYCUS LINEARE Setchell & Gardner
Smith, 1944
Sunset Bay, Oregon to Ventura, Calif.
- IRIDOPHYCUS PARKSII Setchell & Gardner
Setchell & Gardner, 1937
Trinidad, Calif.
- IRIDOPHYCUS PARVULUM (Kjellman) Setchell & Gardner
Setchell & Gardner, 1937
Unalaska; Kodiak Is., Alaska

IRIDOPHYCUS REEDIAE Setchell & Gardner
Setchell & Gardner, 1937
Bushnell's Beach, San Luis Obispo Co., Calif.

IRIDOPHYCUS SANGUINEUM Setchell & Gardner
Smith, 1944
Cape Arago, Oregon to Pacific Grove, Calif.

IRIDOPHYCUS SINICOLA Setchell & Gardner
Setchell & Gardner, 1937
San Francisco Bay, Calif.

IRIDOPHYCUS SPLENDENS Setchell & Gardner
Smith, 1944
Cape Kiawandi, Oregon to southern Calif.

IRIDOPHYCUS WHIDBEYANUM Setchell & Gardner
Setchell & Gardner, 1937
Whidbey Is., Wash.

ERYTHROPHYLLUM DELESSERIOIDES J. Agardh
Smith, 1944
Departure Bay, Alaska to San Luis Obispo Co., Calif.

ERYTHROPHYLLUM GMELINI (Grunow) Yendo
Setchell & Gardner, 1903
Agattu Is., Alaska

BESA PAPILLAEFORMIS Setchell
Smith, 1944
Lands End, San Francisco; Monterey, Calif.

Order RHODYMENIALES

Fam. Rhodymeniaceae

FAUCHEA CRISPA Taylor
Taylor, 1945
Is. María Magdalena, Nayarit

FAUCHEA FRYEANA Setchell
Kylin, 1925
Vicinity of Friday Harbor, Wash.

FAUCHEA LACINIATA J. Agardh
Setchell, 1912; Kylin, 1941
Santa Barbara, Calif.

- FAUCHEA MEDIA Kylin
Smith, 1944
Monterey Peninsula, Calif.
- FAUCHEA MOLLIS Howe
Dawson, 1944
La Paz, Baja Calif.
- FAUCHEA PYGMAEA (Setchell & Gardner) Kylin
Kylin, 1941
San Pedro, Calif.
- FAUCHEA SEFFERI Howe
Dawson, 1944
La Paz, Baja Calif.
- FAUCHEOCOLAX ATTENUATA Setchell
Smith, 1944
Monterey Peninsula, Calif.
- SCIADOPHYCUS STELLATUS Dawson
Dawson, 1945A
San Diego, Calif.; Is. Cedros, Baja Calif.
- LEPTOFAUCHEA PACIFICA Dawson
Dawson, 1945A
Is. Cedros, Baja Calif.
- FRYELLA GARDNERI (Setchell) Kylin
Kylin, 1931
Friday Harbor to Point Defiance, Wash.
- BOTRYOCLADIA HANCOCKII Dawson
Dawson, 1944
Bahía Agua Verde, Baja Calif.
- BOTRYOCLADIA PSEUDODICHOTOMA (Farlow) Kylin
Smith, 1944; Taylor, 1945
Vancouver Is., B. C. to Is. María Magdalena, Nayarit;
Is. Socorro, Revilla Gigedo Arch.
- BOTRYOCLADIA PSEUDODICHOTOMA var. DATILENSIS Dawson
Dawson, 1944
Is. Tiburón, Gulf of Calif.
- BOTRYOCLADIA UVARIOIDES Dawson
Dawson, 1944
San Jose del Cabo; Cabo San Lucas, Baja Calif.
- HALOSACCION GLANDIFORME (Gmelin) Ruprecht
Smith, 1944
Westernmost Aleutian Islands, Alaska to Baja Calif.

- HALOSACCION RAMENTACEUM (Linnaeus) J. Agardh
Setchell & Gardner, 1903
Sannak Is. to Cook Inlet, Alaska
- HALOSACCION TILESII Kjellman
Setchell & Gardner, 1903
Kukak Bay to Wrangel, Alaska
- RHODYMENIA ARBORESCENS Dawson
Dawson, 1941
Laguna Beach, Calif.
- RHODYMENIA ATTENUATA Dawson
Smith, 1944
Monterey to San Pedro, Calif.
- RHODYMENIA CALIFORNICA Kylin
Smith, 1944; Dawson, 1945; Sanborn & Doty, 1946
Coos Bay, Oregon to San Diego, Calif.
- RHODYMENIA DAWSONII Taylor
Taylor, 1945
Cabo San Lazaro; Bahía Santa María, Baja Calif.
- RHODYMENIA DIVARICATA Dawson
Dawson, 1944
Guaymas, Sonora; Is. Angel de la Guarda, Gulf of Calif.
- RHODYMENIA HANCOCKII Dawson
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif.
- RHODYMENIA LOBATA Dawson
Smith, 1944; Dawson, 1944
Monterey, Calif.; near Is. Isabel, Nayarit
- RHODYMENIA LOBULIFERA Dawson
Smith, 1944
Bolinas; Carmel; San Pedro, Calif.
- RHODYMENIA PACIFICA Kylin
Smith, 1944; Dawson, 1945D
Coos Bay, Oregon to San Diego, Calif.
- RHODYMENIA PALMATA (Linnaeus) Greville
Dawson, 1941
Aleutian Is., Alaska; British Columbia; Puget Sound,
Wash.
- RHODYMENIA PALMATA f. MOLLIS Setchell & Gardner
Smith, 1944
Agattu Is., Alaska to Pacific Grove, Calif.

RHODYMENIA PALMATA f. SARNIENSIS (Mertens) J. Agardh
Setchell & Gardner, 1903
Kodiak Is. to Orca, Alaska

RHODYMENIA PALMETTIFORMIS Dawson
Dawson, 1941; 1945; 1945E
La Jolla, Calif.; Cabo Colnett, Baja Calif.

RHODYMENIA PERTUSA (Postels & Ruprecht) J. Agardh
Kylin, 1925; Dawson, 1941; Sanborn & Doty, 1946
Alaska to Coos Bay, Oregon

RHODYMENIA RHIZOIDES Dawson
Dawson, 1941; 1945
San Pedro to San Diego, Calif.

RHODYMENIA ROSEA Dawson
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif.

RHODYMENIA STIPITATA Kylin
Dawson, 1941
British Columbia; Puget Sound, Wash.

RHODYMENIA (?) TEPOCENSIS Dawson
Dawson, 1944
Bahía Tepoca, Sonora; Pond Is.; Gulf of Calif.

RHODYMENIOLAX BOTRYOIDEA Setchell
Dawson, 1945D
San Pedro to San Diego, Calif.

Fam. Champiaceae

BINGHAMIELLA CALIFORNICA Setchell & Dawson
Setchell & Dawson, 1941
Santa Barbara to Santa Monica, Calif.

BINGHAMIELLA FORKII Dawson
Dawson, 1945
La Jolla, Calif.

LOMENTARIA BAILEYANA (Harvey) Farlow
Taylor, 1945
Revilla Gigedo Arch.; Puerto Culebra, Costa Rica

LOMENTARIA CASEAE Dawson
Dawson, 1946
Del Mar, Calif.

LOMENTARIA CATENATA Harvey

Dawson, 1944

Pond Is. to Is. Tortuga, Gulf of Calif.

LOMENTARIA DROUETII Dawson

Dawson, 1944

Guaymas, Sonora

LOMENTARIA HAKODATENSIS Yendo

Dawson, 1944

Is. Guadalupe, Baja Calif.; Is. Angel de la Guarda, Gulf of Calif.; Guaymas, Sonora

CHAMPIA CAESPITOSA Dawson

Dawson, 1944

Is. Angel de la Guarda, Gulf of Calif.

CHAMPIA DISTICHA Dawson

Dawson, 1944

Is. Angel de la Guarda; Is. San Esteban, Gulf of Calif.

CHAMPIA PARVULA (C. Agardh) Harvey

Dawson, 1944

Is. Tiburón, Gulf of Calif. to San Jose del Cabo, Baja Calif.; Is. Clarion, Revilla Gigedo Arch.

GASTROCLONIUM CLAVATUM (Roth) Ardissonne

Dawson, 1944

Bahía San Bartholomé, Baja Calif.; Punta Peñasco to Guaymas, Sonora

GASTROCLONIUM COULTERI (Harvey) Kylin

Smith, 1944; Dawson, 1945E

Nootka Sound, B. C. to Cabo Colnett, Baja Calif.

COELOSEIRA COMPRESSA Hollenberg

Smith, 1944

Pacific Grove, Calif. to Punta Banda, Baja Calif.

COELOSEIRA PARVA Hollenberg

Hollenberg, 1940

Redondo to La Jolla, Calif.

Order **CERAMIALES**Fam. **Ceramiaceae***TRAILLIELLA INTRICATA* (J. Agardh) Batters

Kylin, 1925

Friday Harbor, Wash.

- ANTITHAMNION ALTERNANS Gardner
Gardner, 1927B
Cook Inlet, Alaska
- ANTITHAMNION ASYMMETRICUM Gardner
Gardner, 1927C
Sitka, Alaska
- ANTITHAMNION BAYLESIAE Gardner
Smith, 1944
Monterey Peninsula, Calif.
- ANTITHAMNION DEFECTUM Kylin
Smith, 1944; Sanborn & Doty, 1946
Friday Harbor, Wash. to Monterey, Calif.
- ANTITHAMNION DENDROIDEUM Smith & Hollenberg
Smith, 1944
Monterey, Calif.
- ANTITHAMNION DENSIVASCULUM Gardner
Smith, 1944
Vancouver, B. C.; Puget Sound, Wash.; Pacific Grove,
Calif.
- ANTITHAMNION FLOCCOSUM (Müller) Kleen
Kylin, 1925
Friday Harbor, Wash.
- ANTITHAMNION GARDNERI J. DeToni
J. DeToni, 1935; *Antithamnion tenuissimum* in Gardner
1927B
La Jolla, Calif.
- ANTITHAMNION GLANDULIFERUM Kylin
Smith, 1944
Puget Sound, Wash. to Carmel, Calif.
- ANTITHAMNION KYLINII Gardner
Smith, 1944
Victoria, B. C.; Monterey, Calif.
- ANTITHAMNION NIGRICANS Gardner
Gardner, 1927C
Vancouver Is., B. C.
- ANTITHAMNION OCCIDENTALE Kylin
Smith, 1944; Dawson, 1945B
Puget Sound, Wash.; Carmel; La Jolla, Calif.
- ANTITHAMNION PACIFICUM (Harvey) Kylin
Smith, 1944; Dawson, 1944
Yakutat Bay, Alaska to La Jolla, Calif.; Bahía Tepoca;
Guaymas, Sonora

- ANTITHAMNION PULCHELLUM Gardner
Gardner, 1927C
Santa Monica, Calif.
- ANTITHAMNION PYGMAEUM Gardner
Smith, 1944
Pacific Grove to San Diego, Calif.
- ANTITHAMNION SECUNDATUM Gardner
Gardner, 1927C
San Diego, Calif.
- ANTITHAMNION SETACEUM Gardner
Gardner, 1927B
San Diego, Calif.
- ANTITHAMNION SIMULANS Gardner
Gardner, 1927B
Sitka, Alaska
- ANTITHAMNION SUBLITTORALE Setchell & Gardner
Dawson, 1944
San Jose del Cabo, Baja Calif.
- ANTITHAMNION SUBULATUM (Harvey) J. Agardh
Smith, 1944
Puget Sound, Wash.; Monterey, Calif.
- ANTITHAMNION UNCINATUM Gardner
Smith, 1944
Puget Sound, Wash. to Carmel, Calif.
- PLATYTHAMNION HETEROMORPHUM J. Agardh
Smith, 1944
San Francisco to San Pedro, Calif.
- PLATYTHAMNION PECTINATUM Kylin
Smith, 1944; Dawson, 1945E
Puget Sound, Wash. to San Pedro, Calif.; Cabo Col-
nett, Baja Calif.
- PLATYTHAMNION PECTINATUM var. LAXUM Taylor
Taylor, 1945
Is. Clarion, Revilla Gigedo Arch.
- PLATYTHAMNION REVERSUM (Setchell & Gardner) Kylin
Kylin, 1925
Whidbey Is., Wash.
- PLATYTHAMNION TEPOCENSIS Dawson
Dawson, 1944
Bahía Tepoca, Sonora

- PLATYTHAMNION VILLOSUM Kylin
Smith, 1944
Sitka, Alaska; Puget Sound, Wash. to Monterey, Calif.
- CALLITHAMNION ACUTUM Kylin
Kylin, 1925
San Juan Is., Wash.
- CALLITHAMNION ARBORESCENS Gardner
Gardner, 1927B
Sitka, Alaska
- CALLITHAMNION BISERIATUM Kylin
Smith, 1944
Friday Harbor, Wash.; Monterey, Calif.
- CALLITHAMNION BISPORUM Gardner
Gardner, 1927C
San Juan Is., Wash.
- CALLITHAMNION BREVIAMOSUM Gardner
Gardner, 1927C
La Jolla, Calif.
- CALLITHAMNION BYSSOIDES Arnott
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.
- CALLITHAMNION CALIFORNICUM Gardner
Smith, 1944
Monterey Peninsula, Calif.
- CALLITHAMNION ENDOVAGINUM Setchell & Gardner
Kylin, 1941; Dawson, 1944
La Jolla, Calif.; Guaymas, Sonora
- CALLITHAMNION LAXUM Setchell & Gardner
Gardner, 1927C
Straits of Juan de Fuca; San Juan Co., Wash.
- CALLITHAMNION PACIFICUM Taylor
Taylor, 1945
Is. Socorro, Revilla Gigedo Arch.
- CALLITHAMNION PIKEANUM Harvey
Smith, 1944
Vallenar Point, Alaska to Carmel, Calif.
- CALLITHAMNION PIKEANUM var. PACIFICUM (Harvey)
Setchell & Gardner
Gardner, 1927C
Shumagin Is., Alaska to Straits of Juan de Fuca

- CALLITHAMNION RAMOSISSIMUM Gardner
Gardner, 1927C
La Jolla, Calif.
- CALLITHAMNION RUPICOLUM Anderson
Smith, 1944
Fort Ross to La Jolla, Calif.
- CALLITHAMNION SOCCORIENSE Taylor
Taylor, 1945
Is. Socorro, Revilla Gigedo Arch.
- CALLITHAMNION SQUARRULOSUM Harvey
Harvey, 1853; J. Agardh, 1876
Golden Gate (San Francisco) Calif.
- CALLITHAMNION VELEROAE Dawson
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif.; Bahía Tepoca,
Sonora
- SPYRIDIA FILAMENTOSA (Wulfen) Harvey
Setchell & Gardner, 1930; Kylin, 1941; Taylor, 1945
Southern Calif.; Is. Guadalupe, Baja Calif.; Is. Taboga,
Panamá
- CROUANIA ATTENUATA (Bonnemaison) J. Agardh
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif. ?
- GYMNOTHAMNION ELEGANS (Schousboe) J. Agardh
Setchell & Gardner, 1930
Is. Clarion, Revilla Gigedo Arch.
- HALOPLEGMA MEXICANUM Taylor
Taylor, 1945
Is. María Magdalena, Nayarit
- PLEONOSPORIUM ABYSICOLA Gardner
Gardner, 1927B
Friday Harbor, Wash.
- PLEONOSPORIUM DASYOIDES (J. Agardh) DeToni
Smith, 1944; Dawson, 1946
Tomales Bay to San Pedro, Calif.; Punta Descanso,
Baja Calif.
- PLEONOSPORIUM POLYCARPUM Gardner
Gardner, 1927B
La Jolla, Calif.

PLEONOSPORIUM PYGMAEUM Gardner
Gardner, 1927B
La Jolla, Calif.

PLEONOSPORIUM SQUARROSUM Kylin
Kylin, 1925
San Juan Is., Wash.

PLEONOSPORIUM SQUARROSUM var. OBOVATUM Gardner
Gardner, 1927C; Dawson, 1945D
Sidney, Vancouver Is., B. C.

PLEONOSPORIUM VANCOUVERIANUM J. Agardh
Smith, 1944
Vancouver Is., B. C.; Puget Sound, Wash.; Monterey,
Calif.

SPERMOTHAMNION SACCORHIZA (Setchell & Gardner) Feld-
mann-Mazoyer
Feldmann-Mazoyer, 1942; *Pleonosporium saccorhiza* in
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.

SPERMOTHAMNION SNYDERAE Farlow
Smith, 1944; Dawson, 1945E
Bolas, Calif. to Punta Descanso, Baja Calif.

GRIFFITHSIA MULTIRAMOSA (Setchell & Gardner) Taylor
Dawson, 1944; 1945B
San Diego, Calif.; Is. Angel de la Guarda, Gulf of Cali-
fornia to San Jose del Cabo, Baja Calif.

GRIFFITHSIA MULTIRAMOSA var. BALBOENSIS Hollenberg
Hollenberg, 1945
Balboa Harbor, Calif.

GRIFFITHSIA MULTIRAMOSA var. MINOR Taylor
Taylor, 1939
Punta Gorda, Baja Calif.

GRIFFITHSIA PACIFICA Kylin
Smith 1944; Dawson, 1944; Taylor, 1945
Puget Sound, Wash. to San Diego, Calif.; Bahia Te-
poca; Guaymas, Sonora; Is. Clarion, Revilla Gigeda
Arch. ?

GRIFFITHSIA SCHOESBOEI Montagne
Collins, 1913
Vancouver Is., B. C. (?) (probably *G. pacifica*)

GRIFFITHSIA TENUIS C. Agardh
Dawson, 1944
Punta Peñasco, Sonora to Is. Tiburón, Gulf of Calif.

- CERAMIUM AFFINE* Setchell & Gardner
Dawson, 1944
Is. Guadalupe, Baja Calif.; Is. Angel de la Guarda, Gulf of Calif.
- CERAMIUM CALIFORNICUM* J. Agardh
Kylin, 1941
Puget Sound, Wash. to southern Calif.
- CERAMIUM CAMOUII* Dawson
Dawson, 1944
Turner's Is., Gulf of Calif.
- CERAMIUM CAUDATUM* Setchell & Gardner
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif. to La Paz, Baja Calif.
- CERAMIUM CLARIONENSIS* Setchell & Gardner
Setchell & Gardner, 1930
Is. Clarion, Revilla Gigedo Arch.
- CERAMIUM CODICOLA* J. Agardh
Smith, 1944; Dawson, 1944; 1945E
Sitka, Alaska to San Jose del Cabo, Baja Calif.
- CERAMIUM CODIOPHILA* Setchell & Gardner
Setchell & Gardner, 1937; Dawson, 1945C
La Jolla, Calif.; Is. Guadalupe, Baja Calif.
- CERAMIUM EATONIANUM* (Farlow) DeToni
Smith, 1944; Taylor, 1945; Dawson, 1945E
Coos Bay, Oregon to Is. Cedros, Baja Calif.
- CERAMIUM EQUISETOIDES* Dawson
Dawson, 1944
Bahía Tepoca, Sonora to Mazatlán, Sinaloa
- CERAMIUM EVERMANNII* Setchell & Gardner
Setchell & Gardner, 1931; Dawson, 1945E
Is. Guadalupe, Cabo Colnett, Baja Calif.
- CERAMIUM FASTIGIATUM* Harvey
Taylor, 1939; 1945
Cabo San Lucas, Baja Calif.; Bahía Petatlán, Guerrero
- CERAMIUM FIMBRIATUM* Setchell & Gardner
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif. to San Jose del Cabo, Baja Calif.

CERAMIUM GARDNERI Kylin

Smith, 1944

Coos Bay, Oregon to Carmel, Calif.

CERAMIUM GRACILLIMUM Griffiths & Harvey

Dawson, 1944

Is. Guadalupe, Baja Calif.; Turner's Is., Gulf of Calif.;
San Jose del Cabo, Baja Calif.*CERAMIUM HORRIDUM* Setchell & Gardner

Dawson, 1944

Is. Angel de la Guarda, Gulf of Calif. to Guaymas, So-
nora*CERAMIUM ORNATUM* Setchell & Gardner

Setchell & Gardner, 1930

Is. Guadalupe, Baja Calif.

CERAMIUM PACIFICUM (Collins) Kylin

Smith, 1944; Dawson, 1945E

Vancouver Is., B. C. to Santa Barbara, Calif.; Punta
Descanso, Baja Calif.*CERAMIUM PANICULATUM* Okamura

Dawson, 1944

Guaymas, Sonora

CERAMIUM PERSONATUM Setchell & Gardner

Setchell & Gardner, 1930; Taylor, 1945

Is. Guadalupe, Baja Calif.; Port Parker, Costa Rica

CERAMIUM PROCUMBENS Setchell & Gardner

Dawson, 1944

Bahía San Francisquito, Baja Calif.; Is. Partida, Gulf
of Calif.*CERAMIUM RUBRUM* (Hudson) C. Agardh

Setchell & Gardner, 1903; Collins, 1913

Bering Sea to Puget Sound, Wash.

CERAMIUM SERPENS Setchell & Gardner

Dawson, 1944

Is. Angel de la Guarda, Gulf of Calif. to La Paz, Baja
Calif.*CERAMIUM SINICOLA* Setchell & Gardner

Dawson, 1944

Is. Angel de la Guarda, Gulf of Calif. to Guaymas, So-
nora*CERAMIUM SINICOLA* var. *INTERRUPTUM* (Setchell & Gardner)

Dawson

Dawson, 1944

Near La Paz, Baja Calif.

- CERAMIUM SINICOLA var. JOHNSTONII (Setchell & Gardner)
Dawson
Dawson, 1944
Is. San Esteban; Is. San Pedro Martir, Gulf of Calif.
- CERAMIUM STRICTUM Harvey
Collins, 1913
Vancouver Is., B. C.
- CERAMIUM WASHINGTONIENSE Kylin
Kylin, 1925
San Juan Is., Wash.
- CERAMIUM ZACAE Setchell & Gardner
Setchell & Gardner, 1937A; Dawson, 1945E
Cabo Colnett; Bahía San Bartolomé, Baja Calif.
- CERAMIUM ZEBRINUM J. Agardh
J. Agardh, 1894
Santa Cruz, Calif.
- CENTROCERAS BELLUM Setchell & Gardner
Dawson, 1944
Guaymas, Sonora
- CENTROCERAS CLAVULATUM (C. Agardh) Montagne
Smith, 1944; Dawson, 1944; 1945E; Taylor, 1945
Santa Cruz, Calif. to Panamá
- MICROCLADIA BOREALIS Ruprecht
Smith, 1944
Unalaska, Alaska to San Simeon, Calif.
- MICROCLADIA CALIFORNICA Farlow
Smith, 1944
San Francisco to San Diego, Calif.
- MICROCLADIA COULTERI Harvey
Smith, 1944; Dawson, 1945E
Vancouver Is., B. C. to Punta Descanso, Baja Calif.
- PTILOTA ASPLENIODES (Turner) C. Agardh
Setchell & Gardner, 1903
Alaska to Puget Sound, Wash.
- PTILOTA CALIFORNICA Ruprecht
Smith, 1944
Cape Arago, Oregon to San Diego, Calif.
- PTILOTA Densa C. Agardh
Smith, 1944; Dawson, 1945B
Tomales Bay to San Diego, Calif.

PTILOTA FILICINA (Farlow) J. Agardh
Smith, 1944
Bering Sea to Carmel, Calif.

PTILOTA HYPNOIDES Harvey
Smith, 1944
Sitka, Alaska to San Luis Obispo Co., Calif.

PTILOTA PECTINATA (Gunner) Kjellman
Setchell & Gardner, 1903; Kylin, 1925
Bering Sea to Puget Sound, Wash.

PTILOTA TENUIS Kylin
Kylin, 1925
Friday Harbor, Wash.

Fam. **Delesseriaceae**

BRANCHIOGLOSSUM WOODII (J. Agardh) Kylin
Smith, 1944; Dawson, 1944
Vancouver Is., B. C.; Monterey to Santa Barbara, Calif.;
Puerto Libertad to Guaymas, Sonora

HYPOGLOSSUM ABYSSICOLUM Taylor
Taylor, 1945
Is. Las Tres Marías, Nayarit; Puerto Culebra, Costa
Rica

HYPOGLOSSUM ATTENUATUM Gardner
Dawson, 1944
Puerto Libertad to Guaymas, Sonora

HYPOGLOSSUM RETUSUM Dawson
Dawson, 1945A
Is. Cedros, Baja Calif.

MEMBRANOPTERA DENTICULATA (Montagne) Kylin
Kylin, 1924; *Pteridium spinulosum* in Setchell & Gard-
ner, 1903
Bering Sea to Morzhovoi Bay, Alaska

MEMBRANOPTERA DIMORPHA Gardner
Gardner, 1926; Sanborn, & Doty, 1946
Queen Charlotte Is., B. C. to Coos Bay, Oregon

MEMBRANOPTERA MULTIRAMOSA Gardner
Smith, 1944
San Mateo Co. to Monterey, Calif.

- MEMBRANOPTERA PLATYPHYLLA (Setchell & Gardner) Kylin
Kylin, 1925
Puget Sound to Pleasant Beach, Wash.
- MEMBRANOPTERA SETCHELLII Gardner
Gardner, 1926
Morzhovoi Bay, Alaska
- MEMBRANOPTERA TENUIS Kylin
Kylin, 1925
Friday Harbor, Wash.
- MEMBRANOPTERA WEEKSIAE Setchell & Gardner
Jao, 1937; Smith, 1944; Dawson, 1946
Seattle, Wash.; San Francisco to San Diego, Calif.
- HOLMESIA CALIFORNICA (Dawson) Dawson
Dawson, 1945D
San Diego, Calif.
- DELESSERIA DECIPIENS J. Agardh
Smith, 1944
Prince William Sound, Alaska to Carmel, Calif.
- PLATYSIPHONIA CLEVELANDII (Farlow) Papenfuss
Papenfuss, 1944
Pacific Grove to San Diego, Calif.
- TAENIOMA PERPUSILLUM J. Agardh
Dawson, 1944; Papenfuss, 1944
Bahía Gonzaga to Bahía Agua Verde, Baja Calif.
- ERYTHROGLOSSUM CALIFORNICUM J. Agardh
Smith, 1944
Monterey to Santa Barbara, Calif.
- ERYTHROGLOSSUM INTERMEDIUM (J. Agardh) Kylin
Kylin, 1944
Esquimault, B. C.
- SORELLA DELICATULA (Gardner) Hollenberg
Hollenberg, 1943
San Pedro, Calif.
- SORELLA DELICATULA var. CALIFORNICA Hollenberg
Hollenberg, 1943
Southern Calif.
- SORELLA DIVARICATA (Setchell & Gardner) Hollenberg
Hollenberg, 1943; *Erythroglossum divaricata* in Smith,
1944
Pacific Grove, Calif.

- SORELLA PINNATA Hollenberg
Hollenberg, 1943; Dawson, 1944
Southern Calif.; Is. Angel de la Guarda, Gulf of Calif.
- GRINNELLIA LANCEOLATA Dawson
Dawson, 1944
Punta Gorda, Cape district, Baja Calif.
- POLYNEURA LATISSIMA (Harvey) Kylin
Smith, 1944; Dawson, 1945A
Vancouver, B. C. to Is. Cedros, Baja Calif.
- POLYNEURELLA HANCOCKII Dawson
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif.
- NIENBURGIA ANDERSONIANA (J. Agardh) Kylin
Smith, 1944; Taylor, 1945; Dawson, 1945E
Santa Cruz, Calif. to Is. Cedros, Baja Calif.
- NIENBURGIA BOREALIS (Kylin) Kylin
Kylin, 1935; *Heteronema boreale* in Kylin, 1925
Friday Harbor, Wash.
- PHYCODYRS AMBIGUA Gardner
Gardner, 1927A
Sitka, Alaska
- PHYCODYRS BULLATA Gardner
Gardner, 1927A
Agattu Is. to Sitka, Alaska
- PHYCODYRS RIGGII Gardner
Gardner, 1927A
Kukak Bay to Prince William Sound, Alaska
- PHYCODYRS SETCHELLII Skottsberg
Smith, 1944; Dawson, 1945A; 1945E
Bolinas, Calif. to Is. Cedros, Baja Calif.
- POLYCORYNE GARDNERI Setchell
Smith, 1944
Marin Co.; Monterey Peninsula, Calif.
- POLYCORYNE PHYCODRICOLA Dawson
Dawson, 1945A
Is. Cedros, Baja Calif.
- ANISOCLADELLA PACIFICA Kylin
Smith, 1944; Dawson, 1945E
Santa Cruz, Calif. to Cabo Colnett, Baja Calif.
- MYRIOGRAMME DIVARICATA Dawson
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif.

- MYRIOGRAMME HOLLENBERGII Kylin
Smith, 1944
Monterey, Calif.
- MYRIOGRAMME PULCHRA Gardner
Gardner, 1926
Puget Sound to Tacoma, Wash.
- MYRIOGRAMME REPENS Hollenberg
Hollenberg, 1945
Point Vicente, Calif.
- MYRIOGRAMME SPECTABILIS (Eaton) Kylin
Smith, 1944
Santa Cruz to Redondo, Calif.
- ACROSORIUM UNCINATUM (J. Agardh) Kylin
Kylin, 1941; Taylor, 1945; Dawson, 1945A; 1945E
Southern Calif. to Bahía Santa María, Baja Calif.
- PANTONEURA BAERII (Ruprecht) Kylin
Kylin, 1924
Sitka, Alaska
- PANTONEURA JUERGENSE (J. Agardh) Kylin
Kylin, 1924
Bering Sea to Unalaska, Alaska
- NITOPHYLLUM MIRABILE Kylin
Kylin, 1925
Friday Harbor, Wash.
- HYMENENA FLABELLIGERA (J. Agardh) Kylin
Smith, 1944
Puget Sound, Wash. to Carmel, Calif.
- HYMENENA KYLINII Gardner
Smith, 1944
San Francisco to Monterey, Calif.
- HYMENENA MULTILOBA (J. Agardh) Kylin
Smith, 1944
Cape Mendocino to Carmel, Calif.
- HYMENENA SETCHELLII Gardner
Smith, 1944
Puget Sound, Wash. to Carmel, Calif.
- HYMENENA SMITHII Kylin
Smith, 1944
Carmel, Calif.
- CRYPTOPLEURA BREVIS Gardner
Gardner, 1927
Moss Beach, San Mateo Co., Calif.

CRYPTOPLEURA CORALLINARA (Nott) Gardner
Gardner, 1927
San Diego Co., Calif.

CRYPTOPLEURA CRISPA Kylin
Kylin, 1941; Dawson, 1945E
La Jolla, Calif.; Punta Descanso, Baja Calif.

CRYPTOPLEURA DICHOTOMA Gardner
Gardner, 1927
San Pedro, Calif.

CRYPTOPLEURA LOBULIFERA (J. Agardh) Kylin
Smith, 1944; Taylor, 1945
Tomales Bay to Morro Bay, Calif.; Bahía Santa María,
Baja Calif.

CRYPTOPLEURA RUPRECHTIANA (J. Agardh) Kylin
Kylin, 1925
Sitka, Alaska to northern Calif.

CRYPTOPLEURA SPATULATA Gardner
Gardner, 1927
Santa Barbara; San Pedro, Calif.

CRYPTOPLEURA VIOLACEA (J. Agardh) Kylin
Smith, 1944; Dawson, 1945B; 1945E
Vancouver Is., B. C. to Cabo Colnett, Baja Calif.

BOTRYOGLOSSUM FARLOWIANUM (J. Agardh) G. DeToni
Smith, 1944; Dawson, 1945B
Puget Sound, Wash. to San Diego, Calif.

GONIMOPHYLLUM SKOTTSBERGII Setchell
Smith, 1944; Dawson, 1945C
Friday Harbor, Wash. to San Diego, Calif.

Fam. **Dasyaceae**

DASYA CALIFORNICA Gardner
Gardner, 1927A; Dawson, 1945B
Southern Calif.

DASYA EASTWOODAE Setchell & Gardner
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.

DASYA PEDICELLATA C. Agardh
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif. to Guaymas, So-
nora

DASYA STANFORDIANA Farlow
Setchell & Gardner, 1930; Taylor, 1945
Is. Guadalupe, Baja Calif.; Is. Las Tres Marías, Nayarit

DASYOPSIS DENSA G. M. Smith
Smith, 1944
Santa Cruz to Carmel, Calif.

DASYOPSIS PLUMOSA (Harvey & Bailey) Schmitz
Kylin, 1925; Collins, 1913
Vancouver Is., B. C. to northern Calif.

POGONOPHORA CALIFORNICA J. Agardh
Kylin, 1941; Dawson, 1945B; 1945E
Santa Barbara, Calif. to Punta Descanso, Baja Calif.

HETEROSIPHONIA ASYMMETRIA Hollenberg
Hollenberg, 1945
Corona del Mar, Calif.

HETEROSIPHONIA DENSIUSCULA Kylin
Kylin, 1925
Friday Harbor, Wash.

HETEROSIPHONIA ERECTA Gardner
Gardner, 1927D; Setchell & Gardner, 1937A; Taylor,
1945
Santa Monica, Calif. to Bahía Santa María, Baja Calif.

HETEROSIPHONIA LAXA Kylin
Kylin, 1925
Friday Harbor, Wash.

HETEROSIPHONIA SINICOLA Setchell & Gardner
Dawson, 1944
Near La Paz, Baja Calif.

Fam. Rhodomelaceae

ORCASIA SENTICULOSA (Harvey) Kylin
Kylin, 1941
Orcas Is., Wash.; Monterey, Calif.

POLYSIPHONIA ACUMINATA Gardner
Hollenberg, 1942A; Smith, 1944
Monterey to La Jolla, Calif.

POLYSIPHONIA BIFURCATA Hollenberg
Taylor, 1945
Playa Blancas, Costa Rica

- POLYSIPHONIA BRODIAEI* (Dillwyn) Greville
Hollenberg, 1944; Smith, 1944
Sausalito to Santa Monica, Calif.
- POLYSIPHONIA COLLINSII* Hollenberg
Hollenberg, 1944; Dawson, 1945E
San Juan Co., Wash. to Cabo Colnett, Baja Calif.
- POLYSIPHONIA COLLINSII* var. *COMPACTA* Hollenberg
Hollenberg, 1944
Pacific Grove to southern Calif.
- POLYSIPHONIA COLLINSII* var. *DELIQUESCENS* Hollenberg
Hollenberg, 1944
Prince William Sound, Alaska to Friday Harbor, Wash.
- POLYSIPHONIA COLLINSII* var. *LUXURIANS* Hollenberg
Hollenberg, 1944
Cape Flattery; Friday Harbor, Wash.
- POLYSIPHONIA CONCINNA* Hollenberg
Hollenberg, 1944
Santa Catalina Is.; La Jolla, Calif.
- POLYSIPHONIA DECUSSATA* Hollenberg
Hollenberg, 1942A
Los Angeles Co. to San Diego Co., Calif.
- POLYSIPHONIA DICHOTOMA* Hollenberg
Hollenberg, 1944
Santa Cruz; San Diego, Calif.
- POLYSIPHONIA EASTWOODAE* Setchell & Gardner
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.
- POLYSIPHONIA FLACCIDISSIMA* Hollenberg
Hollenberg, 1942A
Southern Calif.
- POLYSIPHONIA FLACCIDISSIMA* var. *SMITHII* Hollenberg
Hollenberg, 1942A; Smith, 1944
San Francisco to San Diego, Calif.
- POLYSIPHONIA GUADALUPENSIS* Setchell & Gardner
Hollenberg, 1944
Is. Guadalupe, Baja Calif.
- POLYSIPHONIA HANCOCKII* Dawson
Dawson, 1944
San Jose del Cabo, Baja Calif.

- POLYSIPHONIA HENDRYI* Gardner
Smith, 1944; Hollenberg, 1944; Taylor, 1945
Cape Arago, Oregon to Is. Cedros, Baja Calif.
- POLYSIPHONIA HOMOIA* Setchell & Gardner
Hollenberg, 1944; Taylor, 1945
Is. Guadalupe, Baja Calif.; Is. Socorro, Revilla Gigedo Arch.
- POLYSIPHONIA HOWEI* Hollenberg
Taylor, 1945
Bahía de Panamá, Panamá
- POLYSIPHONIA INCONSPICUA* Hollenberg
Hollenberg, 1944
Southern Calif.
- POLYSIPHONIA JOHNSTONII* Setchell & Gardner
Hollenberg, 1944
Is. Angel de la Guarda; Is. San Esteban, Gulf of Calif.
- POLYSIPHONIA MACOUNII* Hollenberg
Hollenberg, 1942A
Vancouver, B. C.
- POLYSIPHONIA MARCHANTAE* Setchell & Gardner
Hollenberg, 1944
La Paz, Baja Calif.
- POLYSIPHONIA MASONII* Setchell & Gardner
Hollenberg, 1942A
Is. Guadalupe, Baja Calif.
- POLYSIPHONIA MINUTISSIMA* Hollenberg
Hollenberg, 1942A; Dawson, 1945B
Santa Catalina Is., Calif. to Punta Banda, Baja Calif.
- POLYSIPHONIA PACIFICA* Hollenberg
Hollenberg, 1942A; Smith, 1944
Sitka, Alaska to Baja Calif.
- POLYSIPHONIA PACIFICA* var. *DELICATULA* Hollenberg
Hollenberg, 1942A
Central Calif. to Gulf of Calif.
- POLYSIPHONIA PACIFICA* var. *DETERMINATA* Hollenberg
Hollenberg, 1942A
Alaska to central Calif.
- POLYSIPHONIA PACIFICA* var. *DISTICHA* Hollenberg
Hollenberg, 1942A
Vancouver Is., B. C. to central Calif.

- POLYSIPHONIA PACIFICA var. GRACILIS Hollenberg
Hollenberg, 1942A
British Columbia to central Calif.
- POLYSIPHONIA PANICULATA Montagne
Hollenberg, 1944; *Polysiphonia californica* in Smith,
1944; Dawson, 1944
Port Holmes, B. C. to Baja Calif.; Punta Peñasco, So-
nora
- POLYSIPHONIA PUNGENS Hollenberg
Hollenberg, 1942A
Alaska to Vancouver, B. C.
- POLYSIPHONIA SIMPLEX Hollenberg
Hollenberg, 1942A; Dawson, 1944
Southern Calif.; Bahía Gonzaga to Bahía Agua Verde,
Baja Calif.
- POLYSIPHONIA SNYDERAE Kylin
Hollenberg, 1942A; Dawson, 1944
Washington to central Mexico
- POLYSIPHONIA SNYDERAE var. HETEROMORPHA Hollenberg
Hollenberg, 1942A
Vancouver, B. C.; coast of Washington
- POLYSIPHONIA SNYDERAE var. INTRICATA Hollenberg
Hollenberg, 1942A
Guaymas, Sonora
- POLYSIPHONIA SONORENSIS Hollenberg
Hollenberg, 1942A; Dawson, 1944
Guaymas; Empalme, Sonora
- BRYOCLADIA DICTYURUS (J. Agardh) Taylor
Taylor, 1945
Bahía Petatlán, Guerrero
- RHODOSIPHONIA CALIFORNICA Hollenberg
Hollenberg, 1943
Santa Barbara to San Diego, Calif.
- LOPHOSIPHONIA MEXICANA Dawson
Dawson, 1944
Is. Angel de la Guarda, Gulf of Calif.; Is. Clarion,
Revilla Gigedo Arch.
- LOPHOSIPHONIA OBSCURA (C. Agardh) Falkenberg
Kylin, 1925
Friday Harbor, Wash. ?
- LOPHOSIPHONIA VILLUM (J. Agardh) Setchell & Gardner
Smith, 1944; Dawson, 1944; Taylor, 1945
Pacific Grove, Calif. to Golfo Dulce, Costa Rica

- BROGNIARTELLA MUCRONATA (Harvey) Schmitz
Taylor, 1945
Is. María Magdalena, Nayarit
- VELEROA SUBULATA Dawson
Dawson, 1944
Bahía Tepoca, Sonora
- FALKENBERGIA HILLEBRANDTII (Bornet) Falkenberg
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.
- PTEROSIPHONIA ARCTICA Setchell & Gardner
Kylin, 1925
Alaska to Puget Sound, Wash.
- PTEROSIPHONIA BAILEYI (Harvey) Falkenberg
Smith, 1944; Taylor, 1945; Dawson, 1945E
Crescent City, Calif. to Is. Cedros, Baja Calif.
- PTEROSIPHONIA BIPINNATA (Postels & Ruprecht) Falkenberg
Smith, 1944
Shumagin Is., Alaska to San Pedro, Calif.
- PTEROSIPHONIA CALIFORNICA Kylin
Kylin, 1941
La Jolla, Calif.
- PTEROSIPHONIA DENDROIDEA (Montagne) Falkenberg
Smith, 1944; Dawson, 1944; 1945E; Taylor, 1945
Vancouver Is., B. C. to San Jose del Cabo, Baja Calif.
- PTEROSIPHONIA GRACILIS Kylin
Kylin, 1925; Sanborn & Doty, 1946
Friday Harbor, Wash. to Coos Bay, Oregon
- PTEROSIPHONIA PENNATA (Roth) Falkenberg
Dawson, 1944
Bahía Tepoca, Sonora
- PTEROSIPHONIA ROBUSTA Gardner
Gardner, 1927D
Northern to central Calif.
- PTEROSIPHONIA ROBUSTA var. DIVARICATA Gardner
Gardner, 1927D
Sitka, Alaska
- PTEROSIPHONIA ROBUSTA var. INERMIS Gardner
Gardner, 1927D
Neah Bay, Wash. to San Francisco Bay, Calif.
- STROMATOCARPUS GARDNERI Setchell
Setchell, 1923; Dawson, 1945C
Santa Monica to La Jolla, Calif.

- PTEROCHONDRIA PYGMAEA (Setchell) Hollenberg
Hollenberg, 1942
Southern Calif.
- PTEROCHONDRIA WOODII (Harvey) Hollenberg
Smith, 1944; Dawson, 1945E
Vancouver, B. C. to San Pedro, Calif.; Cabo Colnett,
Baja Calif.
- HERPOSIPHONIA GRANDIS Kylin
Kylin, 1925; Sanborn & Doty, 1946
Friday Harbor, Wash. to Coos Bay, Oregon
- HERPOSIPHONIA PARVA Hollenberg
Hollenberg, 1943; *Herposiphonia pygmaea* (by error) in
Smith, 1944
Monterey, Calif. to Punta Banda, Baja Calif.
- HERPOSIPHONIA RIGIDA Gardner
Smith, 1944
Puget Sound, Wash. to Santa Monica, Calif.
- HERPOSIPHONIA RIGIDA var. LAXA Setchell & Gardner
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.
- HERPOSIPHONIA SECUNDA (C. Agardh) Ambronn
Taylor, 1945
Is. Jicarita, Panamá
- HERPOSIPHONIA SUBDISTICHA Okamura
Dawson, 1944
Is. San Esteban, Gulf of Calif.
- HERPOSIPHONIA TENELLA (C. Agardh) Nägeli
Dawson, 1944; Taylor, 1945
Kino, Sonora to Is. Las Tres Marías, Nayarit
- HERPOSIPHONIA VERTICILLATA (Harvey) Kylin
Smith, 1944
San Francisco, Calif. to Ensenada, Baja Calif.
- AMPLISIPHONIA PACIFICA Hollenberg
Smith, 1944; Dawson, 1945C
Moss Beach, San Mateo Co., Calif. to Bahía de Todos
Santos, Baja Calif.
- JANTINELLA SINICOLA (Setchell & Gardner) Kylin
Dawson, 1944; Setchell & Gardner, 1930
La Pas, Baja Calif.; Is. Clarion, Revilla Gigedo Arch.
- JANTINELLA VERRUCAEFORMIS (Setchell & McFadden) Kylin
Kylin, 1941
San Pedro, Calif.

- CHONDRIA ACRORHIZOPHORA Setchell & Gardner
Setchell & Gardner, 1924
Near La Paz, Baja Calif.
- CHONDRIA ARCUATA Hollenberg
Hollenberg, 1945
Corona del Mar; Laguna Beach, Calif.
- CHONDRIA CALIFORNICA (Collins) Kylin
Kylin, 1941; Taylor, 1945; Dawson, 1944; 1945E
La Jolla, Calif. to Puerto Culebra, Costa Rica; Gulf of
Calif.
- CHONDRIA CLARIONENSIS Setchell & Gardner
Setchell & Gardner, 1930
Is. Clarion, Revilla Gigedo Arch.
- CHONDRIA CUSCUTOIDES Dawson
Dawson, 1946
La Jolla, Calif.
- CHONDRIA DASYPHYLLA (Woodward) C. Agardh
Dawson, 1944; 1946
Bahía Gonzaga, Baja Calif. to Guaymas, Sonora
- CHONDRIA DECIPIENS Kylin
Smith, 1944; Dawson, 1945B
Santa Cruz to La Jolla, Calif.
- CHONDRIA NIDIFICA Harvey
Kylin, 1941; Dawson, 1945E
La Jolla, Calif.; Cabo Colnett, Baja Calif.
- CHONDRIA OPPOSITICLADA Dawson
Dawson, 1946
La Jolla, Calif.
- CHONDRIA PACIFICA Setchell & Gardner
Setchell & Gardner, 1937A
Bahía San Bartholomé, Baja Calif.
- CHONDRIA PLATYCLADA Taylor
Taylor, 1945
Puerto Culebra, Costa Rica
- CHONDRIA SECUNDATA (J. Agardh) DeToni
DeToni, 1903
Santa Barbara, Calif.
- CHONDRIA TELMOENSIS Dawson
Dawson, 1946
La Jolla, Calif.; Cabo Colnett, Baja Calif.
- LAURENCIA CLARIONENSIS Setchell & Gardner
Setchell & Gardner, 1937A; Taylor, 1945
Is. Clarion, Revilla Gigedo Arch.

- LAURENCIA CRISPA Hollenberg
Smith, 1944
Monterey Peninsula, Calif.
- LAURENCIA DIEGOENSIS Dawson
Dawson, 1944A; 1945E
Santa Monica to Cabo Colnett, Baja Calif.
- LAURENCIA ESTEBANIANA Setchell & Gardner
Dawson, 1944
Smith Is.; Is. San Esteban, Gulf of Calif.
- LAURENCIA GARDNERI Hollenberg
Smith, 1944
Monterey Peninsula, Calif.
- LAURENCIA HANCOCKII Dawson
Dawson, 1944
Bahía Agua Verde, Baja Calif.
- LAURENCIA HUMILIS Setchell & Gardner
Setchell & Gardner, 1930
Is. Clarion, Revilla Gigedo Arch.
- LAURENCIA INTRICATA Lamouroux
Taylor, 1945
Bahía Petatlán, Guerrero
- LAURENCIA JOHNSTONII Setchell & Gardner
Dawson, 1944
Bahía San Francisquito, Baja Calif.; Is. San Marcos;
Is. Tiburón, Gulf of Calif.
- LAURENCIA MASONII Setchell & Gardner
Setchell & Gardner, 1930
Is. Guadalupe, Baja Calif.
- LAURENCIA OBTUSIUSCULA Setchell & Gardner
Dawson, 1944
Guaymas, Sonora to San Jose del Cabo, Baja Calif.
- LAURENCIA PACIFICA Kylin
Smith, 1944; Dawson, 1945E
Pacific Grove, Calif. to Punta Descanso, Baja Calif.
- LAURENCIA PANICULATA (C. Agardh) J. Agardh
Dawson, 1944
Bahía Gonzaga to Bahía Agua Verde, Baja Calif.
- LAURENCIA PAPILLOSA var. PACIFICA Setchell & Gardner
Dawson, 1944; Setchell & Gardner, 1930
Is. Guadalupe; La Paz, Baja Calif.; Is. Tiburón, Gulf of
Calif.

- LAURENCIA PENINSULARIS Taylor
Taylor, 1945
Cabo San Lazaro, Baja Calif.
- LAURENCIA SCRIPPSSENSIS Dawson
Dawson, 1944
La Jolla, Calif.
- LAURENCIA SINICOLA Setchell & Gardner
Dawson, 1944
Is. San Marcos, Gulf of Calif.; Eureka, near La Paz,
Baja Calif.
- LAURENCIA SNYDERAE Dawson
Dawson, 1945
La Jolla, Calif.
- LAURENCIA SPECTABILIS Postels & Ruprecht
Smith, 1944; Dawson, 1944A
Sitka, Alaska to Santa Monica, Calif.
- LAURENCIA SPLENDENS Hollenberg
Smith, 1944; Dawson, 1945E
Santa Cruz, Calif. to Cabo Colnett, Baja Calif.
- LAURENCIA SUBOPPOSITA (J. Agardh) Setchell
Dawson, 1944A; Kylin, 1941
La Jolla to San Diego, Calif.
- LAURENCIA VORAGINA Taylor
Taylor, 1945
White Friars Is., Guerrero
- RICARDIA SACCATA (J. Agardh) Kylin
Smith, 1944
Pacific Grove to La Jolla, Calif.; Is. Guadalupe, Baja
Calif.
- JANCZEWSKIA GARDNERI Setchell & Guernsey
Smith, 1944; Dawson, 1945B; 1945E
Vancouver Is.. B. C. to Cabo Colnett, Baja Calif.
- JANCZEWSKIA LAPPACEA Setchell
Kylin, 1941; Dawson, 1945E
San Pedro, Calif. to Cabo Colnett, Baja Calif.
- JANCZEWSKIA MORIFORMIS Setchell
Setchell, 1914
Santa Monica, Calif.
- JANCZEWSKIA SOLMSII Setchell & Guernsey
Setchell, 1914; Setchell & Gardner, 1930; Dawson, 1945B
Redondo to San Diego, Calif.; Is. Guadalupe, Baja Calif.

- DIGENIA SIMPLEX (Wulfen) C. Agardh
Dawson, 1944; Taylor, 1945
Gulf of Calif. to Costa Rica
- BRYOTHAMNION PACIFICUM Taylor
Taylor, 1945
Is. María Magdalena, Nayarit
- RHODOMELA LARIX (Turner) C. Agardh
Smith, 1944
Bering Sea to San Luis Obispo Co., Calif.
- RHODOMELA LYCOPODIODES (Linnaeus) C. Agardh
Setchell & Gardner, 1903; Collins, 1913
Alaska to Vancouver, B. C.
- ODONTHALIA DENTATA (Linnaeus) Lyngbye
Setchell & Gardner, 1903
Alaska to Victoria, B. C.
- ODONTHALIA FLOCCOSA (Esper) Falkenberg
Smith, 1944
Puget Sound, Wash. to Santa Barbara, Calif.
- ODONTHALIA KAMTSCHATICA (Ruprecht) J. Agardh
Kylin, 1925
Alaska to Puget Sound, Wash.
- ODONTHALIA LYALLII (Harvey) J. Agardh
Kylin, 1925
Puget Sound, Wash.
- ODONTHALIA WASHINGTONIENSIS Kylin
Kylin, 1925; Sanborn & Doty, 1946
Victoria, B. C. to Coos Bay, Oregon
- BOSTRYCHIA CALLIPTERA (Montagne) Montagne
Taylor, 1945
Panamá
- BOSTRYCHIA RADICANS Montagne
Dawson, 1944
Guaymas, Sonora
- BOSTRYCHIA TENELLA J. Agardh
Taylor, 1945
Golfo Dulce, Costa Rica

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