

A Guide to the Literature and Distributions of Pacific Benthic Algae from Alaska to the Galapagos Islands

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FIFTEEN YEARS AGO the writer prepared the first "Guide to the marine algae of Pacific North America" (Dawson, 1946a). That first check list of the benthic flora of the region has become outdated by the results of extensive explorations of the Mexican coasts and islands from 1946 to 1952, and, subsequently, of the coasts of Central America and British Columbia. Doty's "Marine algae of Oregon" (1947) appeared as the first treatment of that region, and a number of studies of California algae have added considerable literature for that area. The fuller knowledge of the Mexican and Central American algae has shown such affinities with the flora of the Galapagos Archipelago that it has seemed appropriate to include the entire northeast Pacific in the present list, from the southern boundary of Ecuador and the Galapagos Islands to the Aleutian Islands, and including Clipperton Island and the Revillagigedo Archipelago, but not extending as far west as Hawaii or the Line Islands, for which an independent account is intended.

As before, the literature cited represents the references that provide an adequate key to all previous literature dealing with the occurrence of a given species along the Pacific American coasts. Thus, some 80 titles have been added to bring this expanded list up to date, but one will find himself frequently referred to larger bibliographies such as those of Smith (1944), Taylor (1945), Scagel (1957), Dawson (1954a), and others, for earlier or more exhaustive citations of literature.

For the sake of consistency, the distribution records are cited from north to south.

The classification is essentially according to that of Papenfuss (1955).

SYSTEMATIC LIST

PHYLUM CHLOROPHYCOPHYTA

ORDER VOLVOCALES

SUBORDER VOLVOCINEAE

FAM. POLYBLEPHARIDACEAE

Stephanoptera gracilis (Artari) G. M. Smith
Scagel, 1957
Northern Wash. to Monterey, Calif.

Dunaliella salina (Dunal) Teodoresco
Scagel, 1957
Northern Wash. to Monterey, Calif.

FAM. CHLAMYDOMONADACEAE

Platymonas subcordiformis (Wille) Hazen
Smith, 1944
Monterey, Calif.

SUBORDER CHLORODENDRINEAE

FAM. CHLORANGIACEAE

Collinsiella tuberculata Setchell & Gardner
Scagel, 1957
Southern British Columbia to Pacific Grove, Calif.

Prasinocladus ascus Proskauer
Proskauer, 1950
Near Santa Cruz, Calif.

Prasinocladus lubricus Kuckuck
Proskauer, 1950; Scagel, 1957
Friday Harbor, Wash., to Monterey, Calif.

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ORDER ULOTRICHALES

FAM. ULOTRICHACEAE

Ulotrix flacca (Dillwyn) Thuret, in Le Jolis
Scagel, 1957
St. Michael, Alaska, to Calif.

Ulotrix implexa Kützing
Scagel, 1957
Bering Sea to Monterey, Calif.

Ulotrix laetevirens (Kützing) Collins
Scagel, 1957
Unalaska, Alaska, to Calif.

Ulotrix pseudoflacca f. *minor* Wille
Setchell & Gardner, 1920
Sitka, Alaska

Ulotrix pseudoflacca f. *major* Wille
Setchell & Gardner, 1920
San Francisco, Calif.

Ulotrix pseudoflacca f. *maxima* Setchell &
Gardner
Setchell & Gardner, 1920
San Francisco, Calif.

Ulotrix zonata (Weber & Mohr) Kützing
Doty, 1947
Harris State Park; Squaw Creek, Oreg.

Hormidium rivulare Kützing
Doty, 1947
Winchester Bay, Oreg.

FAM. CHAETOPHORACEAE

Bolbocoleon piliferem Pringsheim
Setchell & Gardner, 1920; Dawson, 1945*b*
Southern Calif.

Pilinia lunatae f. *simplex* Thivy
Taylor, 1945
Panama City, Panama

Pilinia maritima f. *pacifica* Thivy
Taylor, 1945; Dawson, 1954
Isla Clarión, Revillagigedo Arch.; Galapagos
Arch.

Phaeophila dendroides (Crouan) Batters
Dawson, 1954
Isla María Magdalena, Nayarit

Phaeophila engleri Reinke
Taylor, 1945; Dawson, 1954
Isla Clarión, Revillagigedo Arch., to Isla Ta-
boga, Panamá; Galapagos Arch.

Phaeophila polymorpha Jao
Scagel, 1957
Northern Wash.

Ectochaete perforans Thivy
Taylor, 1945
Galapagos Arch.

Zygomitus reticulatus Bornet & Flahault
Taylor, 1945
Galapagos Arch.

Entocladia cingens Setchell & Gardner
Setchell & Gardner, 1920
San Diego, Calif.

Entocladia codicola Setchell & Gardner
Smith, 1944; Dawson, 1945*b*
Monterey Peninsula to La Jolla, Calif.

Entocladia condensata Setchell & Gardner
Dawson, 1954
Puerto Libertad; Isla San Esteban, Gulf of
Calif.

Entocladia mexicana Setchell & Gardner
Dawson, 1954
Isla Ángel de la Guarda; La Paz, Gulf of Calif.

Entocladia polysiphoniae Setchell & Gardner
Dawson, 1954; Dawson, 1957 (as probably
identical with *E. viridis*)
Guaymas; La Paz, Gulf of Calif.

Entocladia viridis Reinke

Scagel, 1957; Dawson, 1957
Southern British Columbia to Monterey,
Calif.; Galapagos Arch.

Endophyton ramosum Gardner

Doty, 1947
Brookings, Oreg., to Monterey Peninsula,
Calif.

Pseudodictyon geniculatum Gardner

Doty, 1947
Sunset Bay, Oreg., to Pacific Grove, Calif.

Internoretia freyeana Setchell & Gardner

Scagel, 1957
Friday Harbor, Wash.

Ulvella setchellii Dangeard

Smith, 1944; Hollenberg, 1948; Dawson,
1954
Pacific Grove, Calif., to Isla Guadalupe, Baja
Calif.

Pseudulvella applanata Setchell & Gardner

Smith, 1944
Carmel, Calif.

Pseudulvella consociata Setchell & Gardner

Doty, 1947
South Bay, Oreg.; Alameda, Calif.

Pseudulvella prostrata (Gardner) Setchell & Gardner

Setchell & Gardner, 1920
San Francisco, Calif.

Pseudopringsheimia apiculata Setchell & Gardner

Smith, 1944
San Francisco; Monterey, Calif.

Pringsheimiella marchantiae (Setchell & Gardner) Schmidt

Schmidt, 1935; Dawson, 1954
La Paz, Baja Calif.

Pringsheimiella scutata (Reinke) Schmidt & Petrack, in Schmidt

Dawson, 1960a
Isla Guadalupe, Baja Calif.

FAM. TRENTEPOHLIACEAE

Trentepohlia odorata var. *umbrina* (Kützing) Hariot

Setchell & Gardner, 1920
San Pedro, Calif.

FAM. MONOSTROMACEAE

Monostroma areolatum Setchell & Gardner

Setchell & Gardner, 1920
Sitka, Alaska

Monostroma dactyliferum Taylor

Taylor, 1945
Guayas, Ecuador

Monostroma ecuadorenum Taylor

Taylor, 1945; Dawson, 1957b
Golfo Dulce, Costa Rica?; Guayas, Ecuador

Monostroma fractum Jao

Scagel, 1957
Turn I., Wash.

Monostroma fuscum (Postels & Ruprecht) Wittrock var. *fuscum*

Scagel, 1957
Kukak Bay, Alaska, to northern Wash.

Monostroma fuscum var. *blyttii* (Areschoug) Collins

Scagel, 1957
Southern British Columbia to northern Wash.

Monostroma fuscum var. *splendens* (Ruprecht) Rosenvinge

Scagel, 1957
St. Paul I., Alaska, to southern British Columbia

Monostroma grevillei (Thuret) Wittrock var. *grevillei*

Setchell & Gardner, 1920
Unalaska, Alaska

- Monostroma grevillei* var. *lubricum* (Kjellman) Collins
Setchell & Gardner, 1920
Sitka, Alaska
- Monostroma grevillei* var. *vablii* (J. Agardh) Rosenvinge
Setchell & Gardner, 1920; Okamura, 1933
Aleutian Islands to Sitka, Alaska
- Monostroma orbiculatum* Thuret
Setchell & Gardner, 1920
Central Calif.
- Monostroma oxyspermum* (Kützing) Doty
Scagel, 1957
Southern British Columbia to southern Calif.
- Monostroma zostericola* Tilden
Scagel, 1957
Southern British Columbia to Monterey, Calif.
- Blidingia minima* (Nägeli) Kylin var. *minima*
Scagel, 1957; Dawson, 1959c (as *Enteromorpha minima*)
Dutch Harbor, Alaska, to Mexico
- Blidingia minima* var. *subsalsa* (Kjellman) Scagel
Scagel, 1957
Skagway, Alaska, to Chetco Cove, Oreg.
- FAM. ULVACEAE
- Enteromorpha acanthophora* Kützing
Dawson, 1949a, 1954; Dawson, Neushul, Wildman, 1960a
Bahía Tortuga, Baja Calif.; Gulf of Calif.
- Enteromorpha ablnneriana* Bliding
Doty, 1947
North Bend, Oreg.
- Enteromorpha clathrata* (Roth) Greville
Dawson, 1954 (as *E. plumosa*); Scagel, 1957; Dawson, 1959, 1959b
Valdez, Alaska, to Carmel, Calif.; Isla Clarión, Revillagigedo Arch.; southern Gulf of Calif.; Clipperton I.
- Enteromorpha compressa* (Linnaeus) Greville
Dawson, 1949a, 1954; Scagel, 1957; Dawson, 1957b, 1959, 1959c
Bering Sea to Costa Rica
- Enteromorpha crinita* (Roth) J. Agardh
Taylor, 1945; Dawson, 1959c
Valdes, Alaska, to San Diego, Calif.; Galapagos Arch.
- Enteromorpha groenlandica* (J. Agardh) Setchell & Gardner
Setchell & Gardner, 1920
Bering Sea to Unalaska, Alaska
- Enteromorpha intestinalis* (Linnaeus) Link f. *intestinalis*
Okamura, 1933; Scagel, 1957; Dawson, 1957c
Kukak Bay, Alaska, to La Paz, Baja Calif.; Gulf of Calif.
- Enteromorpha intestinalis* f. *cylindracea* J. Agardh
Scagel, 1957
Popof I., Alaska, to Mexico
- Enteromorpha intestinalis* f. *maxima* J. Agardh
Scagel, 1957
Kukak Bay, Alaska, to Mexico
- Enteromorpha intestinalis* f. *clavata* J. Agardh
Scagel, 1957
Kukak Bay, Alaska, to Mexico
- Enteromorpha lingulata* J. Agardh
Dawson, 1954, 1957b; Taylor, 1945
Isla Guadalupe, Baja Calif., to Balboa, Canal Zone; Galapagos Arch.
- Enteromorpha linza* (Linnaeus) J. Agardh
Dawson, 1954; Scagel, 1957; Dawson, 1959c (as *Ulva linza*)
Orca, Alaska, to Mexico
- Enteromorpha marginata* J. Agardh
Scagel, 1957
Vancouver I., British Columbia, to Calif.

- Enteromorpha prolifera* (Müller) J. Agardh var. *prolifera*
Dawson, 1954; Scagel, 1957
Golovnin Bay, Alaska, to Central America
- Enteromorpha prolifera* var. *flexuosa* (Wulfen) Doty
Doty, 1947; Setchell & Gardner, 1920 (as *E. flexuosa*); Taylor, 1945 (as *E. flexuosa*)
Santa Barbara, Calif., to Puerto Parker, Costa Rica; Guayas, Ecuador
- Enteromorpha salina* var. *polyclados* Kützing
Taylor, 1945
San Francisco Bay, Calif.; Galapagos Arch.
- Enteromorpha torta* (Mertens) Reinbold
Scagel, 1957
Southern British Columbia and Wash.; San Diego, Calif.
- Enteromorpha tubulosa* (Kützing) Kützing
Taylor, 1945; Dawson, 1954; Scagel, 1957
Northern Wash. to Cabo Colnett, Baja Calif.; Galapagos Arch.
- Ulva angusta* Setchell & Gardner
Smith, 1944; Dawson, 1954 (as *U. taeniata* and as *Enteromorpha angusta*), 1959c; Doty, 1947 (as *Enteromorpha angusta*)
Oreg. to southern Calif.; Isla Guadalupe, Baja Calif.?, Guaymas, Sonora
- Ulva californica* Wille
Doty, 1947; Dawson, 1959c, 1960a
Oreg.; Moss Beach, Calif.; southern Calif.; Isla Magdalena, Baja Calif.
- Ulva dactylifera* Setchell & Gardner
Taylor, 1945; Dawson, 1954, 1959
Southern Calif. to San Roque, Baja Calif.; southern Gulf of Calif.; Guayas, Ecuador ?; Galapagos Arch.
- Ulva expansa* (Setchell) Setchell & Gardner
Dawson, 1954; Scagel, 1957
Southern British Columbia to Monterey, Calif.; La Paz, Baja Calif.
- Ulva fasciata* Delile
Farlow, 1902; Taylor, 1945
Galapagos Arch.
- Ulva fenestrata* Postels & Ruprecht
Scagel, 1957
Sitka, Alaska, to Oreg.
- Ulva lactuca* Linnaeus
Taylor, 1945; Dawson, 1954; Scagel, 1957; Dawson, 1959, 1959c
Bering Sea to Guayas, Ecuador; Galapagos Arch.
- Ulva latissima* Linnaeus
Scagel, 1957
Juneau, Alaska, to northern Wash.
- Ulva lobata* (Kützing) Setchell & Gardner
Taylor, 1945; Doty, 1947; Dawson, 1954, 1957, 1959b, 1959c
Oreg. to San Diego, Calif.; Bahía Petatlán, Guerrero; Clipperton I.; Guayas, Ecuador; Galapagos Arch.
- Ulva rigida* C. Agardh
Dawson, 1949a; Scagel, 1957; Dawson, 1954, 1959c
Uyak Bay, Alaska, to La Paz, Baja Calif.; Gulf of Calif.
- Ulva spinulosa* Okamura & Segawa
Dawson, 1960a
Puerto Guatulco, Oaxaca
- Ulva stenophylla* Setchell & Gardner
Doty, 1947
Chetco Cove, Oreg. to Big Sur, Calif.
- Ulva taeniata* (Setchell) Setchell & Gardner
Doty, 1947; Dawson, 1954, 1959c
Coos Bay, Oreg., to Point Conception, Calif. (more southern records are probably all *U. angusta*)
- Ulva vexata* Setchell & Gardner
Doty, 1947 (as *Enteromorpha vexata*)
Oreg.; San Francisco, Calif.

Percursaria percursa (C. Agardh) Rosenvinge
Scagel, 1957
Amaknak I., Alaska, to San Francisco Bay,
Calif.

ORDER SCHIZOGONIALES

FAM. PRASIOLOACEAE

Schizogonium murale f. *uniserialum* Jao
Scagel, 1957
Dinner Point, Wash.

Prasiola borealis Reed
Setchell & Gardner, 1920
Unalaska, Kodiak, and Baranof islands, Alaska

Prasiola calophylla (Carmichael) Meneghini
Scagel, 1957
Whidbey I., Wash.

Prasiola delicatula Setchell & Gardner
Setchell & Gardner, 1920
Sitka, Alaska

Prasiola linearis Jao
Scagel, 1957
Argyle Lagoon, Wash.

Prasiola meridionalis Setchell & Gardner
Scagel, 1957; Silva, 1957
Friday Harbor, Wash., to Carmel, Calif.; Santa
Cruz I., Calif.

Rosenvingiella constricta (Setchell & Gardner)
Silva
Silva, 1957; Scagel, 1957
Friday Harbor, Wash.; Tomales Point; Mon-
terey; Santa Cruz I., Calif.

Rosenvingiella polyrhiza (Rosenvinge) Silva
Silva, 1957
Amaknak I., Alaska

ORDER CHLOROCOCCALES

FAM. CHLOROCOCCACEAE

Chlorochytrium inclusum Kjellman
Scagel, 1957
Sitka, Alaska, to Camel, Calif.

Chlorochytrium porphyrae Setchell & Gardner
Scagel, 1957
Cape Flattery, Wash.; San Francisco; Monte-
rely Peninsula, Calif.

Chlorochytrium schmitzii Rosenvinge
Setchell & Gardner, 1920
Kodiak I., Alaska

Codiolum penicilliforme (Roth) Silva
Scagel, 1957 (as *Codiolum gregarium*); Silva,
1957a (as the sporophyte generation of
Urospora penicilliformis)
Southern British Columbia to northern Wash.

Codiolum petrocelidis Kuckuck
Scagel, 1957; Fan, 1959 (Fan, and also Hol-
lenberg, 1958, indicate this as the sporo-
phyte generation of *Spongomorpha coalita*)
Northern Wash. to Monterey, Calif.

Codiolum pusillum f. *subsessile* Jao
Scagel, 1957
Brown I., Wash.

FAM. GOMONTIACEAE

Gomontia polyrhiza (Lagerheim) Bornet & Fla-
hault
Scagel, 1957
Neah Bay, Wash., to Monterey, Calif.

ORDER CLADOPHORALES

FAM. CLADOPHORACEAE

Rhizoclonium crassipellitum var. *robustum* G.
S. West
Taylor, 1945
Galapagos Arch.

Rhizoclonium implexum (Dillwyn) Kützing
Taylor, 1945 (as *R. riparium* var. *implexum*);
Scagel, 1957
St. Michael I., Alaska, to Carmel, Calif.; Gala-
pagos Arch.

Rhizoclonium kernerii Stockmayer
Dawson, 1959; Scagel, 1957
Victoria, British Columbia

- Rhizoclonium kochianum* Kützing
Taylor, 1945 (as *R. kernerii*); Dawson, 1959, 1960a
Puerto Escondido, Gulf of Calif.; Isla Clarión, Revillagigedo Arch.; Isla Jicarón, Panamá
- Rhizoclonium rhizophilum* Taylor
Taylor, 1945
Galapagos Arch.
- Rhizoclonium riparium* (Roth) Harvey
Scagel, 1957
Unalaska, Alaska, to southern Calif.; Galapagos Arch.
- Rhizoclonium tortuosum* (Dillwyn) Kützing
Scagel, 1957
Kodiak Bay, Alaska, to Carmel, Calif.
- Lola lubrica* (Setchell & Gardner) A. & G. Hamel
Dawson, 1954; Scagel, 1957
Northern Wash. to Puerto Culebra, Costa Rica
- Urospora doliifera* (Setchell & Gardner) Doty
Doty, 1947
Chetco Cove, Oreg.; San Francisco, Calif.
- Urospora grandis* Kylin
Scagel, 1957
Unalaska, Alaska, to Oreg.
- Urospora penicilliformis* (Roth) Areschoug
Dawson, 1949 (as *Chaetomorpha catalinae*); Dawson, 1954d; Scagel, 1957; Silva (1957a) treats this as *Codiolum penicilliformis*, the alternate, gametophyte generation of *Codiolum gregarium*
Bering Sea to southern Calif.
- Urospora sphaerulifera* (Setchell & Gardner) Scagel
Scagel, 1957
Whidbey I., Wash.
- Urospora tetraciliata* (Frye & Zeller) Scagel
Scagel, 1957
San Juan County, Wash.
- Urospora vancouveriana* (Tilden) Scagel
Scagel, 1957
Oak Bay, Vancouver I., British Columbia
- Urospora wormskioldii* (Mertens) Rosenvinge
Scagel, 1957
Southern British Columbia to Gualala, Calif.
- Chaetomorpha aerea* (Dillwyn) Kützing
Dawson, 1954, 1959c
Santa Cruz to San Diego, Calif.; northern Gulf of Calif.
- Chaetomorpha antennina* (Bory) Kützing
Dawson, 1945b, 1954, 1954c, 1959, 1959b; Dawson & Beaudette, 1960
La Jolla, Calif., to Guayas, Ecuador; Clipper-ton I.; Galapagos Arch.
- Chaetomorpha atrovirens* Taylor, approx.
Dawson, 1954
Isla Guadalupe
- Chaetomorpha bangioides* Dawson
Dawson, 1954, 1959
Isla Patos; Puerto Escondido, Gulf of Calif.
- Chaetomorpha brachygona* var. *crassipellita* Taylor
Taylor, 1945
Galapagos Arch.
- Chaetomorpha californica* Collins
Setchell & Gardner, 1920
Laguna Beach to La Jolla, Calif.
- Chaetomorpha cannabina* (Areschoug) Kjellman
Scagel, 1957
Norton Sound, Alaska, to Puget Sound, Wash.
- Chaetomorpha clavata* (C. Agardh) Kützing
Dawson, 1954
Punta Descanso; Cabo Colnett, Baja Calif.
- Chaetomorpha crassa* (C. Agardh) Kützing
Dawson, 1954
Islas San Benitos; Bahía Magdalena, Baja Calif.

- Chaetomorpha exposita* (Börjesen) Dawson
Dawson, 1954c
Isla San Benedicto, Revillagigedo Arch.
- Chaetomorpha gracilis* Kützing
Dawson, 1954c
Isla San Benedicto, Revillagigedo Arch.
- Chaetomorpha indica* Kützing
Dawson, 1960a
Isla del Rey, Panamá
- Chaetomorpha linooides* (C. Agardh) Kützing
Dawson, 1954
Cabo San Lucas, Baja Calif.; Mazatlán, Sinaloa
- Chaetomorpha linum* (Müller) Kützing
Dawson, 1954; Taylor, 1945; Dawson, 1959
Isla Cedros, Baja Calif.; Isla Carmén, Gulf of
Calif.; Galapagos Arch.
- Chaetomorpha melagonium* (Weber & Mohr)
Kützing
Setchell & Gardner, 1920; Okamura, 1933
Aleutian Islands to Kodiak I., Alaska
- Chaetomorpha pachynema* Montagne
Dawson, 1954
Punta Palmilla, Baja Calif.
- Chaetomorpha tenuissima* Jao
Scagel, 1957
Northern Wash.
- Chaetomorpha torta* (Farlow) McClatchie
Setchell & Gardner, 1920; Dawson, 1945b,
1949a, 1954, 1959c; Dawson, Neushul,
Wildman, 1960
Southern Calif. to Isla Magdalena, Baja Calif.
- Cladophora albida* (Hudson) Kützing
Scagel, 1957; Dawson, 1954, 1959, 1960a
Southern British Columbia to northern Wash.;
San Pedro, Calif.; Gulf of Calif.; Isla
Grande, Guerrero
- Cladophora amphibia* Collins
Setchell & Gardner, 1920
San Francisco Bay, Calif.
- Cladophora bertolonii* var. *hamosa* (Kützing)
Ardissone
Smith, 1944
Pacific Grove, Calif.
- Cladophora crystallina* (Roth) Kützing
Dawson, 1960a
Bahía Culebra, Costa Rica
- Cladophora delicatula* Montagne
Doty, 1947; Dawson, 1954
Oreg. to San Diego, Calif.; Rio Mayo, Sonora
- Cladophora elmorei* Dawson
Dawson, 1949
San Clemente Island, Calif.
- Cladophora flexuosa* (Griffiths) Harvey
Scagel, 1957
Annettee I., Alaska, to San Diego, Calif.
- Cladophora glaucescens* (Griffiths) Harvey
Scagel, 1957
Nanaimo, British Columbia, to Oakland, Calif.
- Cladophora gracilis* (Griffiths) Kützing f.
gracilis
Scagel, 1957
Sitka, Alaska; Neah Bay, Wash.
- Cladophora gracilis* f. *expansa* Farlow
Dawson, 1954
Isla Clarión, Revillagigedo Arch.
- Cladophora graminea* Collins
Smith, 1944; Dawson, 1954, 1959c; Dawson,
Neushul & Wildman, 1960
Santa Cruz, Calif., to Isla Magdalena, Baja
Calif.; Guaymas, Sonora
- Cladophora hemispherica* Gardner
Doty, 1947; Smith, 1944; Dawson, 1959c
Oreg. to northern Los Angeles Co., Calif.
- Cladophora hesperia* Setchell & Gardner
Dawson, 1954, 1954d
Vicinity of Isla Cedros, Baja Calif.; Kino,
Sonora, to Mazatlán, Sinaloa

- Cladophora butchinsiae* (Dillwyn) Kützing var. *butchinsiae*
Scagel, 1957
Vancouver I., British Columbia
- Cladophora butchinsiae* var. *distans* (C. Agardh) Kützing
Scagel, 1957
Southern British Columbia
- Cladophora inserta* Dickie f.
Dawson, 1957
Isla San Benedicto, Revillagigedo Arch.
- Cladophora laetevirens* (Dillwyn) Kützing
Scagel, 1957
Vancouver, British Columbia, and Straits of Juan de Fuca, Wash.
- Cladophora macdougalii* Howe
Dawson, 1954
Bahía San Felipe, Gulf of Calif.
- Cladophora magdalenae* Harvey
Dawson, 1954
Scammon Lagoon, Baja Calif.
- Cladophora microcladioides* Collins f. *microcladioides*
Dawson, 1954; Scagel, 1957; Dawson, 1959c
Southern British Columbia to Bahía Viscaíno, Baja Calif.; 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 perpusilla* Skottsberg & Levring
Dawson, 1954c, 1957, 1959b, 1960a
Isla San Benedicto, Revillagigedo Arch.; Puerto Guatulco, Oaxaca; Clipperton I.; Galapagos Arch.
- Cladophora prolifera* (Roth) Kützing
Taylor, 1945; Dawson, 1954, 1957b
Scammon Lagoon, Baja Calif.; Costa Rica; Guayas, Ecuador; Galapagos Arch.
- Cladophora rudolphiana* (C. Agardh) Kützing f. *rudolphiana*
Dawson, 1954, 1957b
Guaymas, Sonora; Golfo de Nicoya, Costa Rica
- Cladophora rudolphiana* f. *eramosa* Gardner
Setchell & Gardner, 1920; Dawson, 1954
San Francisco Bay, Calif.; Guaymas, Sonora
- Cladophora socialis* Kützing
Dawson, 1957b, 1959b
Golfo de Nicoya, Costa Rica; Clipperton I.
- Cladophora stimpsonii* Harvey
Scagel, 1957
Southern British Columbia to southern Calif.
- Cladophora tiburonensis* Dawson
Dawson, 1954
Isla Tiburón, Gulf of Calif.; Mazatlán, Sinaloa
- Cladophora trichotoma* (C. Agardh) Kützing f. *trichotoma*
Dawson, 1954; Scagel, 1957; Dawson, 1959c
Southern British Columbia to Isla Cedros, Baja Calif.; La Paz, Gulf of Calif. ?
- Cladophora trichotoma* f. *elongata* Collins
Setchell & Gardner, 1920
Point Carmel, Calif.
- Cladophora utriculosa* Kützing
Dawson, 1959, 1960a
Isla San Francisco, Gulf of Calif.; Bahía Chachahua, Oaxaca; Bahía Potrero Grande, Costa Rica
- Spongomorpha arcta* (Dillwyn) Kützing
Scagel, 1957
Bering Sea to Puget Sound, Wash.

Spongomorpha coalita (Ruprecht) Collins
Scagel, 1957; Fan, 1959 (Note: Hollenberg, 1958, and Fan, 1959, show this to be the gametophyte generation of *Codiolum petrocelidis*)
Unalaska, Alaska, to Carmel, Calif.

Spongomorpha conjuncta Taylor
Taylor, 1945
Galapagos Arch.

Spongomorpha duriuscula (Ruprecht) Collins
Okamura, 1933; Doty, 1947
Aleutian Islands to Karluk, Alaska; Oreg.

Spongomorpha bystrix Stroemfelt
Setchell & Gardner, 1920; Okamura, 1933
Agattu I. to Sitka, Alaska

Spongomorpha mertensii (Ruprecht) Setchell & Gardner
Scagel, 1957
Unalaska, Alaska, to San Francisco, Calif.

Spongomorpha saxatilis (Ruprecht) Collins var. *saxatilis*
Doty, 1947
Alaska to San Francisco, Calif.

Spongomorpha saxatilis var. *chamissonis* (Ruprecht) Collins
Scagel, 1957
Unalaska, Alaska, to Wash.

Spongomorpha spinescens Kützing
Scagel, 1957
Unalaska, Alaska, to Coos Bay, Oreg.

FAM. ANADYOMENACEAE

Valoniopsis hancockii Dawson
Dawson, 1954
Isla Ángel de la Guarda, Gulf of Calif.

Valoniopsis pachynema (Martens) Børgesen
Dawson, 1954, 1959
Scammon Lagoon, Baja Calif.; Isla Ángel de la Guarda to Isla Espíritu Santo, Gulf of Calif.; Isla Isabel, Nayarit

Microdictyon palmeri Setchell
Dawson, 1954
Isla Guadalupe, Baja Calif.

ORDER SIPHONOCLADALES

FAM. VALONIACEAE

Dictyosphaeria australis Setchell
Dawson, 1954
Cabeza Ballena, Baja Calif.; Isla Clarión, Revillagigedo Arch.

Dictyosphaeria versluysii Weber van Bosse
Dawson, 1954, 1954c
Isla Guadalupe, Baja Calif.; Isla Espíritu Santo, Gulf of Calif.; Revillagigedo Arch.

FAM. SIPHONOCLADACEAE

Siphonocladus pusilloides Setchell & Gardner
Dawson, 1954
Isla Guadalupe, Baja Calif.

Ernodesmis verticillata (Kützing) Børgesen
Dawson, 1954, 1959
Cabeza Ballena, Baja Calif. del Sur; Isla Carmen; La Paz, Gulf of Calif.

Cladophoropsis fasciculata (Kjellman) Børgesen
Dawson, 1958, 1959c
Lechuza Point; Dana Point, Calif.

Cladophoropsis gracillima Dawson
Dawson, 1954, 1957b, 1960a
Punta Palmilla, Baja Calif.; Costa Rica

Cladophoropsis membranacea (C. Agardh) Børgesen
Dawson, 1960a ("Cladophora" by error)
Punta Cono, Baja Calif.

Cladophoropsis (?) *robusta* Setchell & Gardner
Dawson, 1954 (as *Willeella mexicana* in part), 1957b (as *Willeella mexicana*), 1959
Southern Gulf of Calif.

FAM. BOODLEACEAE

- Struvea anastomosans* (Harvey) Piccone
Dawson, 1954, 1957b
Acapulco, Guerrero; Costa Rica
- Boodlea composita* (Harvey & Hooker, f.)
Brand
Taylor, 1945; Dawson, 1954
Isla María Magdalena, Nayarit; Guayas, Ecuador
- Boodlea siamensis* Reinbold
Dawson, 1957b
Golfo Dulce, Costa Rica

ORDER SIPHONALES

FAM. DERBESACEAE

- Halicystis ovalis* (Lyngbye) Areschoug
Scagel, 1957; Dawson, Neushul, Wildman,
1960, 1960a (Note: this is generally recognized as the gametophyte phase of *Derbesia marina*)
Silver Bay, Alaska, to Punta Eugenio, Baja Calif.
- Derbesia attenuata* Dawson
Dawson, 1959b, 1960a
Clipperton I.; Isla Brincanco, Panamá
- Derbesia hollenbergii* Taylor
Taylor, 1945; Dawson, 1959
Isla Carmén, Gulf of Calif.; Galapagos Arch.
- Derbesia lamourouxii* (J. Agardh) Solier
Dawson, 1954
Near Tijuana; Cabo Colnett, Baja Calif.
- Derbesia longifructa* Taylor
Taylor, 1945
Guayas, Ecuador
- Derbesia marina* (Lyngbye) Kjellman
Scagel, 1957 (Note: this is generally recognized as the sporophyte phase of *Halicystis ovalis*)
Sitka, Alaska, to La Jolla, Calif.

Derbesia pacifica Jao

Scagel, 1957
Turn I., Wash.

Derbesia prolifica Taylor

Taylor, 1945
Galapagos Arch.

Derbesia tenuissima (De Notaris) Crouan & Crouan ?

Dawson, 1954
Campo Malarrimo, Bahía Vizcaino, Baja Calif.

Derbesia vaucheriaeformis (Harvey) J. Agardh

Scagel, 1957
Yakutat Bay, Alaska, to northern Wash.

FAM. CAULERPACEAE

- Caulerpa cupressoides* var. *lycopodium* near f. *elegans* Weber van Bosse
Taylor, 1945
Isla Gorgona, Colombia
- Caulerpa pinnata* f. *pectinata* (Kützinger) Weber van Bosse
Dawson, 1954
Isla Ángel de la Guarda, Gulf of Calif.
- Caulerpa racemosa* var. *clavifera* f. *macrophysa* (Kützinger) Weber van Bosse
Dawson, 1954
Isla Guadalupe, Baja Calif.
- Caulerpa racemosa* var. *laetevirens* (Montagne) Weber van Bosse f. *laetevirens*
Dawson, 1954
Isla Guadalupe, Baja Calif.; Isla Clarión, Revillagigedo Arch.
- Caulerpa racemosa* var. *laetevirens* f. *cylindraceae* (Sonder) Weber van Bosse
Dawson, 1954
Isla Guadalupe, Baja Calif.; Clipperton I.
- Caulerpa racemosa* var. *occidentalis* (C. Agardh) Børgesen
Taylor, 1945; Dawson, 1954
Isla Clarión, Revillagigedo Arch.; Galapagos Arch.

Caulerpa racemosa var. *turbinata* (J. Agardh)
Eubank

Dawson, 1954, 1959

Southern Gulf of Calif. to Mazatlán, Sinaloa

Caulerpa racemosa var. *uvifera* (Turner) Weber
van Bosse

Dawson, 1954; Taylor, 1945

Isla Espiritu Santo, Gulf of Calif.; Galapagos Arch.

Caulerpa sertularioides (Gmelin) Howe

Dawson, 1954, 1959

Puerto Escondido to La Paz, Gulf of Calif.;
Tangola-Tangola, Oaxaca

Caulerpa vanbosseae Setchell & Gardner

Dawson, 1954, 1959; Dawson, Neushul, Wildman, 1960a

Vicinity of Bahía Magdalena, Baja Calif.;
Isla Ángel de la Guarda to Isla Espiritu Santo, Gulf of Calif.

FAM. BRYOPSISIDACEAE

Pseudobryopsis hainanensis Tseng

Dawson, 1954c

Isla San Benedicto, Revillagigedo Arch.

Bryopsis corticulans Setchell

Dawson, 1954; Scagel, 1957; Dawson, 1959c

Southern British Columbia to La Jolla, Calif.;
Islas San Benitos, Baja Calif.

Bryopsis galapagensis Taylor

Taylor, 1945; Dawson, 1954

Revillagigedo Arch.; Galapagos Arch.; Isla Gorgona, Colombia

Bryopsis hypnoides Lamouroux

Dawson, 1954; Scagel, 1957; Dawson, 1959c

Southern British Columbia to San Pedro, Calif.; La Paz, Gulf of Calif.; Panama City, Panamá

Bryopsis muscosa Lamouroux

Dawson, 1954, 1959

Pacific Baja Calif.; southern Gulf of Calif.;
Salina Cruz, Oaxaca

Bryopsis pennata Lamouroux

Dawson, 1954 (as *B. pennatula* and as *B. plumosa* var. *pennata*), 1957b, 1959

Isla Tiburón, Gulf of Calif., to Golfo de Nicoya, Costa Rica

Bryopsis pennatula J. Agardh

Taylor, 1945; Dawson, 1954 (Note: probably equal to *B. pennata* according to Dawson, 1959)

Guerrero; Oaxaca; Galapagos Arch.

Bryopsis plumosa (Hudson) C. Agardh

Scagel, 1957

Southern British Columbia to northern Wash.

FAM. CODIACEAE

Boodleopsis verticillata Dawson

Dawson, 1960a

Isla del Rey, Panamá

Chlorodesmis hildebrandtii A. Gepp & E. Gepp

Dawson, 1957b, 1959

Southern Gulf of Calif.; Costa Rica

Chlorodesmis mexicana Taylor

Taylor, 1945; Dawson, 1954

Isla Guadalupe, Baja Calif., to Tangola-Tangola, Oaxaca; Guayas, Ecuador; Galapagos Arch.

Geppella decussata Dawson

Dawson, 1959

Isla San Francisco, Gulf of Calif.

Codium amplivesiculatum Setchell & Gardner

Dawson, 1954, 1959

Isla Pond; Puerto Escondido, Gulf of Calif.

Codium anastomosans Setchell & Gardner

Dawson, 1954 (Note: probably equal to *C. simulans*)

Isla Ángel de la Guarda to Isla Tiburón, Gulf of Calif.

Codium cervicorne Setchell & Gardner

Taylor, 1945

Galapagos Arch.

- Codium cuneatum* Setchell & Gardner
Dawson, 1954; Dawson, Neushul, Wildman, 1960, 1960a
San Pedro, Calif., to southern Baja Calif; Gulf of Calif.
- Codium decorticatedum* (Woodward) Howe
Dawson, 1954
Isla Clarión, Revillagigedo Arch.
- Codium dichotomum* (Hudson) S. F. Gray
Taylor, 1945; Dawson, 1954
Isla Guadalupe; Isla Cedros to Isla Magdalena, Baja Calif.; Mazatlán, Sinaloa; Galapagos Arch.
- Codium fernandezianum* Setchell
Taylor, 1945; Dawson, 1954
Bahía Santa María, Baja Calif.; Guayas, Ecuador
- Codium foveolatum* Howe, prox.
Taylor, 1945
Galapagos Arch.
- Codium fragile* (Suringar) Hariot
Scagel, 1957; Dawson, 1954, 1959c
Sitka, Alaska, to Bahía Asunción, Baja Calif.
- Codium geppii* O. C. Schmidt, complex
Dawson, 1959b
Clipperton I.
- Codium hubbsii* Dawson
Dawson, 1954; Dawson, Neushul, Wildman, 1960
Santa Catalina I., Calif., to Bahía Asunción, Baja Calif.; Isla Guadalupe, Baja Calif.
- Codium isabelae* Taylor
Dawson, 1954
Isla Clarión, Revillagigedo Arch.; La Paz, Baja Calif.
- Codium johnstonei* Silva
Dawson, 1954
Santa Cruz I., Calif. to Islas Coronados, Baja Calif.
- Codium longiramosum* Setchell & Gardner
Dawson, 1954
Isla Pond, Gulf of Calif.; Isla Clarión, Revillagigedo Arch.; Bahía Petatlán, Guerrero
- Codium macdougallii* Dawson
Dawson, 1954
Puerto Libertad, Sonora
- Codium magnum* Dawson
Dawson, 1954
Bahía San Quintín, Baja Calif.
- Codium palmeri* Dawson
Dawson, 1954
Isla Guadalupe, Baja Calif.
- Codium santamariae* Taylor
Taylor, 1945
Galapagos Arch.; Guayas, Ecuador
- Codium setchellii* Gardner
Dawson, 1954; Scagel, 1957; Dawson, 1957, 1959c; Dawson, Neushul, Wildman, 1960, 1960a
Sitka, Alaska, to Punta Abreojos, Baja Calif.; Rocas Alijos
- Codium simulans* Setchell & Gardner
Dawson, 1954, 1959
Ensenada ?; Isla Guadalupe ?; Punta Santa Rosalía, Baja Calif.; Gulf of Calif.; Isla Clarión, Revillagigedo Arch.
- Codium ritteri* Setchell & Gardner
Scagel, 1957
Kodiak I., Alaska, to Vancouver I., British Columbia
- Halimeda discoidea* Decaisne
Dawson, 1954, 1957b, 1959
Isla Magdalena, Baja Calif.; Isla Ángel de la Guarda, Gulf of Calif., to Golfo Dulce, Costa Rica
- Halimeda opuntia* (Linnaeus) Lamouroux
Dawson, 1954
Isla Guadalupe, Baja Calif.; Isla Clarión, Revillagigedo Arch.

Halimeda tuna (Solander) Lamouroux

Dawson, 1954
Isla Clarión, Revillagigedo Arch.

ORDER DASYCLADALES

FAM. DASYCLADACEAE

Acetabularia moebii Solms-Laubach

Dawson, 1960a
Revillagigedo Arch.; Bahía Carrizal, Colima

Neomeris annulata Dickie

Dawson, 1959
Isla Partida, southern Gulf of Calif.

Neomeris vanbosseae Howe

Dawson, 1954
Isla Socorro, Revillagigedo Arch.

PHYLUM CHRYSOPHYCOPHYTA

ORDER VAUCHERIALES

FAM. PHYLLOSIPHONACEAE

Ostreobium quekettii Bornet & Flahault

Scagel, 1957
Puget Sound, Wash.

Ostreobium reineckeii Bornet

Dawson, 1954
Isla Guadalupe, Baja Calif.; Isla Clarión, Revillagigedo Arch.

FAM. VAUCHERIACEAE

Vaucheria litoria Bang & C. Agardh

Scagel, 1957
Northern Wash.

Vaucheria longicaulis Hoppaugh

Hoppaugh, 1930; Taylor, 1952
Elkhorn Slough, Monterey Co., Calif.

Vaucheria thuretii Woronin

Doty, 1947
Charleston, Oreg.

PHYLUM PHAEOPHYCOPHYTA

ORDER ECTOCARPALES

FAM. ECTOCARPACEAE

Pylaiella gardneri Collins

Smith, 1944
San Francisco to Carmel, Calif.

Pylaiella littoralis (Linnaeus) Kjellman

Scagel, 1957
Bering Sea to San Pedro, Calif.

Pylaiella tenella Setchell & Gardner

Scagel, 1957
Neah Bay, Wash.; Monterey, Calif.

Pylaiella unilateralis Setchell & Gardner

Setchell & Gardner, 1925; Doty, 1947
Coos Bay, Oreg.

Pylaiella washingtoniensis Jao

Scagel, 1957
Northern Wash.

(Note: Hamel (1939) and others treat some species of *Ectocarpus* under the separate genera *Giffordia* and *Feldmannia*)

Ectocarpus acuminatus Saunders

Smith, 1944
Pacific Grove to San Pedro, Calif.

Ectocarpus acutus Setchell & Gardner var. *acutus*

Scagel, 1957
Puget Sound to Carmel, Calif.

Ectocarpus acutus var. *haplogloiae* Doty

Doty, 1947; Scagel, 1957
Neah Bay, Wash.; Oreg.; Moss Beach, Calif.

Ectocarpus affinis Setchell & Gardner

Setchell & Gardner, 1925
Sitka, Alaska

Ectocarpus breviarticulatus J. Agardh

Dawson, 1954, 1954c
Isla Guadalupe, Baja Calif.; Isla San Benedito, Revillagigedo Arch.; San Agustín, Oaxaca

- Ectocarpus bryantii* Setchell & Gardner
Dawson, 1954
La Paz, Gulf of Calif.
- Ectocarpus chantransioides* Setchell & Gardner
Setchell & Gardner, 1925; Hollenberg, 1948
Santa Monica; Corona del Mar, Calif.
- Ectocarpus chitonicola* Saunders
Smith, 1944
Monterey Peninsula, Calif.
- Ectocarpus commensalis* Setchell & Gardner
Smith, 1944; Dawson, 1954
Monterey Peninsula, Calif.; Campo Malarimo, Bahía Vizcaino, Baja Calif.
- Ectocarpus confervoides* (Roth) LeJolis f. *confervoides*
Coe, 1932; Scagel, 1957
Yakutat Bay, Alaska, to La Jolla, Calif.
- Ectocarpus confervoides* f. *parvus* (Saunders)
Setchell & Gardner
Setchell & Gardner, 1925
San Francisco to San Diego, Calif.
- Ectocarpus confervoides* f. *typicus* Kuckuck
Setchell & Gardner, 1925; Doty, 1947
Juneau, Alaska, to San Francisco, Calif.
- Ectocarpus corticulatus* Saunders
Scagel, 1957
Popof I., Alaska, to San Pedro, Calif.
- Ectocarpus cylindricus* Saunders f. *cylindricus*
Coe, 1932; Hollenberg, 1948; Scagel, 1957
Northern Wash. to La Jolla, Calif.
- Ectocarpus cylindricus* f. *codiophilus* Setchell & Gardner
Smith, 1944; Dawson, 1945b, 1960a
Monterey Peninsula; La Jolla, Calif.; Punta Thurloe, Baja Calif.
- Ectocarpus dimorphus* Silva
Dawson, 1954 (as *E. variabilis*); Silva, 1957;
Scagel, 1957
Hope I., British Columbia, to Bahía Asunción,
Baja Calif.; Gulf of Calif.
- Ectocarpus duchassaigianus* Grunow
Dawson, 1954
Isla Guadalupe, Baja Calif.; Isla María Magdalena, Nayarit; Isla Socorro, Revillagigedo Arch.
- Ectocarpus ellipticus* Saunders
Smith, 1944
Monterey Peninsula, Calif.
- Ectocarpus ensenadanus* Gardner
Dawson, 1954
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; Dawson, 1954
La Jolla, Calif.; Isla Cedros; Campo Malarimo, Baja Calif.
- Ectocarpus fructuosus* Setchell & Gardner
Setchell & Gardner, 1925
Moss Beach, Calif.
- Ectocarpus globifer* Kützing
Setchell & Gardner, 1925
San Pedro to La Jolla, Calif.
- Ectocarpus gonodioides* Setchell & Gardner
Smith, 1944; Dawson, 1954
Carmel, Calif.; Isla Smith, Gulf of Calif.
- Ectocarpus granulosoides* Setchell & Gardner
var. *granulosoides*
Smith, 1944; Dawson, 1945b
Monterey to La Jolla, Calif.
- Ectocarpus granulosoides* var. *pygmaeus* Setchell & Gardner
Dawson, 1954
Isla San Martín, Baja Calif.

- Ectocarpus granulosus* (J. E. Smith) C. Agardh
Coe, 1932; Dawson, 1954; Scagel, 1957; Dawson, 1959c, 1960a
Southern British Columbia to Punta Thurloe, Baja Calif.
- Ectocarpus hancockii* Dawson
Dawson, 1954
Isla Turner, Gulf of Calif.
- Ectocarpus hemisphericus* Saunders f. *hemisphericus*
Setchell & Gardner, 1925
San Pedro to San Diego, Calif.
- Ectocarpus hemisphericus* f. *minor* Saunders
Setchell & Gardner, 1925; Dawson, 1945b
Southern Calif.
- Ectocarpus indicus* Sonder
Dawson, 1959b
Clipperton I.
- Ectocarpus irregularis* Kützing
Dawson, 1954c, 1959b
Isla San Benedicto, Revillagigedo Arch.; Clipperton I.?
- 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, 1954, 1959, 1959c
Southern Calif. to San Jose del Cabo, Baja Calif.; Punta Peñasco, Sonora; southern Gulf of Calif. ?
- Ectocarpus mucronatus* Saunders
Scagel, 1957; Dawson, 1954, 1959c
Vancouver I., British Columbia, to San Pedro, Calif.; Punta Peñasco, Sonora
- Ectocarpus oviger* Harvey
Scagel, 1957
Southern British Columbia to Carmel, Calif.
- Ectocarpus saundersii* Setchell & Gardner
Smith, 1944
Monterey Peninsula, Calif.
- Ectocarpus parksii* Setchell & Gardner
Setchell & Gardner, 1925
San Francisco Bay, Calif.
- Ectocarpus pygmaeus* Areschoug
Dawson, 1954 (as *E. confervoides* f. *pygmaeus*); Scagel, 1957
Shumagin I., Alaska, to Carmel, Calif.; Punta Descanso, Baja Calif.
- Ectocarpus siliculosus* (Dillwyn) Lyngbye f. *siliculosus*
Setchell & Gardner, 1925; Sanborn & Doty, 1946; Doty, 1947
Coos Bay, Oreg., to San Francisco Bay, Calif.
- Ectocarpus siliculosus* f. *subulatus* (Kützing)
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, 1954
Guaymas, Gulf of Calif.
- Ectocarpus taoniae* Setchell & Gardner
Setchell & Gardner, 1925
San Pedro, Calif.
- Ectocarpus terminalis* Kützing
Scagel, 1957
Unalaska, Alaska, to Laguna Beach, Calif.

- Ectocarpus tomentosus* (Hudson) Lyngbye
Scagel, 1957; Taylor, 1945
Kodiak I., Alaska, to Laguna Beach, Calif.;
Galapagos Arch.
- Zosterocarpus abyssicolus* Taylor
Taylor, 1945
Galapagos Arch.
- Streblonema aecidioides* f. *pacificum* Setchell &
Gardner
Scagel, 1957
Southern British Columbia to northern Wash.
- Streblonema anomalus* Setchell & Gardner
Smith, 1944
Monterey; San Pedro, Calif.
- Streblonema codicola* Setchell & Gardner
Dawson, 1954
Isla Guadalupe, Baja Calif.
- Streblonema corymbiferum* Setchell & Gardner
Smith, 1944
Monterey; San Pedro, Calif.
- Streblonema desmarestiae* Gardner
Gardner, 1940; Scagel, 1957
San Juan I., 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 minutissimum* Saunders
Setchell & Gardner, 1925
Sitka, Alaska
- Streblonema myrionematoides* Setchell & Gard-
ner
Setchell & Gardner, 1925
Moss Beach, 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
Scagel, 1957
Northern 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
Dawson, 1954
Central Calif.; Isla Tiburón to Isla Espiritu
Santo, Gulf of Calif.; Bahía Tenacatita,
Jalisco
- Ralfsia clavata* (Carmichael) Crouan
Setchell & Gardner, 1925
Unalaska Bay, Alaska
- Ralfsia fungiformis* (Gunnerus) Setchell &
Gardner
Scagel, 1957
Bering Sea to Coos Bay, Oreg.

Ralfsia hancockii Dawson

Dawson, 1954, 1954c
San Jose del Cabo, Baja Calif.; Isla San Benedicto, Revillagigedo Arch.

Ralfsia hesperia Setchell & Gardner

Smith, 1944
Carmel; Corona del Mar, Calif.

Ralfsia occidentalis Hollenberg

Dawson, 1954
Isla Socorro, Revillagigedo Arch.

Ralfsia pacifica Hollenberg, in Dawson

Dawson, 1954; Scagel, 1957
Unalaska, Alaska, to Baja Calif.; northern Gulf of Calif.

Ralfsia pangoensis var. *galapagensis* Setchell & Gardner

Setchell & Gardner, 1937
Galapagos Arch.

Hapterophycus canaliculatus Setchell & Gardner

Dawson, 1954, 1959c
Redondo, Calif., to Islas San Benito, Baja Calif.

Lithoderma fatiscens Areschoug

Setchell & Gardner, 1925
Bering Sea; Unalaska, Alaska

Hapalospongidion gelatinosum Saunders

Smith, 1944; Dawson, 1954
Carmel, Calif., to Punta Banda, Baja Calif.; Bahía Petatlán, Guerrero

ORDER SPHACELARIALES

FAM. SPHACELARIACEAE

Sphacelaria brevicorne Setchell & Gardner

Dawson, 1954
Vicinity of La Paz, Gulf of 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

Dawson, 1954, 1957b, 1959, 1959b
La Jolla, Calif., to Isla Magdalena, Baja Calif.; Gulf of Calif.; Golfo de Nicoya, Costa Rica; Clipperton I.; Galapagos Arch.

Sphacelaria hancockii Dawson

Dawson, 1954, 1959
Bahía Viscaíno, Baja Calif.; Gulf of Calif.

Sphacelaria masonii Setchell & Gardner

Dawson, 1954
Isla Clarión, Revillagigedo Arch.

Sphacelaria novae-hollandiae Sonder

Dawson, 1954, 1957b
Isla Guadalupe, Baja Calif.; Golfo Dulce, Costa Rica

Sphacelaria racemosa Greville

Scagel, 1957
Bering Sea to Oreg.

Sphacelaria subfusca Setchell & Gardner

Scagel, 1957
Sitka, Alaska, to Redondo, Calif.

Sphacelaria tribuloides Meneghini

Dawson, 1959
Isla San Diego, Gulf of Calif.

ORDER CUTLERIALES

FAM. CUTLERIACEAE

Cutleria hancockii Dawson

Dawson, 1954
Northern Gulf of Calif.

ORDER TILOPTERIDALES

FAM. TILOPTERIDACEAE

Masonophycus paradoxa Setchell & Gardner

Dawson, 1954
Isla Clarión, Revillagigedo Arch.

ORDER DICTYOTALES

FAM. DICTYOTACEAE

- Pachydiptyon coriaceum* (Holmes) Okamura
Dawson, 1954, 1959, 1959c; Dawson, Neushul, Wildman, 1960
Coos Bay, Oreg., to Punta Entrada, Isla Magdalena, Baja Calif.; northern Gulf of Calif. south to Isla Ildefonso
- Dictyota binghamiae* J. Agardh
Dawson, 1954; Dawson, Neushul, Wildman, 1960, 1960a
Coos Bay, Oreg., to central Baja Calif.
- Dictyota concrescens* Taylor
Dawson, 1954
Cabo San Lazaro, Isla Magdalena, Baja Calif.
- Dictyota crenulata* J. Agardh
Dawson, 1954, 1954c, 1959
Isla San Benedicto, Revillagigedo Arch.; Isla San Diego, Gulf of Calif., to Puerto Culebra, Costa Rica
- Dictyota dichotoma* (Hudson) Lamouroux
Dawson, 1954, 1957, 1959
Gulf of Calif.; tropical Pacific Mexico and Central America ?; Galapagos Arch.
- Dictyota divaricata* Lamouroux
Dawson, 1954, 1957, 1957b, 1959
Isla Guadalupe, Baja Calif.; Revillagigedo Arch.; La Paz, Gulf of Calif., to Isla La Plata, Ecuador
- Dictyota flabellata* (Collins) Setchell & Gardner
Smith, 1944; Taylor, 1945; Doty, 1947; Dawson, 1954, 1959, 1959c; Dawson, Neushul & Wildman, 1960
Southern Calif. to Punta Santa Rosalía, Baja Calif.; northern Gulf of Calif. south to Isla Tortuga
- Dictyota friabilis* Setchell
Dawson, 1957b; Dawson, Neushul & Wildman, 1960a
Islas San Benito, Baja Calif.; Golfo de Nicoya, Costa Rica ?
- Dictyota major* Taylor
Taylor, 1945
Galapagos Arch.
- Dictyota masonii* Setchell & Gardner
Dawson, 1954, 1960a
Isla Margarita, Baja Calif. ?; Isla Clarión, Revillagigedo Arch., Isla del Caño, Costa Rica ?
- Dilophus okamurai* Dawson
Dawson, 1954
Vicinity of San Lucas, Baja Calif.
- Dilophus pinnatus* Dawson
Dawson, 1954
Miramar, Nayarit
- Dictyopteris cokeri* (Howe) Taylor
Taylor, 1945
Galapagos Arch.
- Dictyopteris delicatula* Lamouroux
Dawson, 1954
Revillagigedo Arch.; Clipperton I.
- Dictyopteris diaphana* Taylor
Taylor, 1945
Galapagos Arch.
- Dictyopteris jobnstonei* Gardner
Silva, 1957 (indicating probable identity with *D. zonarioides*)
Santa Cruz I., Calif., to Islas San Benitos, Baja Calif.
- Dictyopteris membranacea* (Stackhouse) Batters
Dawson, 1954
Isla Guadalupe; Scammons Lagoon, Baja Calif.
- Dictyopteris repens* (Okamura) Børgesen
Dawson, 1957, 1957b, 1959, 1959b
Isla Carmén, Gulf of Calif.; Golfo de Nicoya, Costa Rica; Clipperton I.
- Dictyopteris zonarioides* Farlow
Dawson, 1954, 1959, 1959c; Dawson, Neushul & Wildman, 1960
Southern Calif. to San Jose del Cabo, Baja Calif.; northern Gulf of Calif. south to Isla Ildefonso

Taonia lennebackerae Farlow

Dawson, 1954, 1959c; Dawson, Neushul, Wildman, 1960, 1960a

Lechuza Point, Calif., to Bahía Asunción, Baja Calif.

Syringoderma abyssicola (Setchell & Gardner) Levring

Scagel, 1957
Northern Wash.

Spatoglossum ecuadoreanum Taylor

Taylor, 1945
Galapagos Arch.

Spatoglossum howellii Setchell & Gardner

Dawson, 1954; Dawson, Neushul, Wildman, 1960a
Central Baja Calif.; Galapagos Arch.

Spatoglossum lanceolatum Dawson

Dawson, 1954
Ensenada de San Francisco, Sonora

Spatoglossum sp. aff. *S. schroederi* (Mertens) J. Agardh

Dawson, 1959
Isla San Pedro Nolasco, Gulf of Calif.

Spatoglossum schmittii Taylor

Taylor, 1945
Galapagos Arch.

Spatoglossum subflabellatum Dawson

Dawson, 1954
Ensenada de San Francisco, Sonora

Glossophora galapagensis Taylor

Taylor, 1945
Galapagos Arch.

Zonaria lobata C. Agardh

Taylor, 1945
Galapagos Arch.

Zonaria farlowii Setchell & Gardner

Dawson, 1954, 1959c; Dawson, Neushul, Wildman, 1960
Santa Barbara Co., Calif., to Isla Magdalena, Baja Calif.

Pocockiella variegata (Lamouroux) Papenfuss

Taylor, 1945; Dawson, 1954, 1954c, 1957, 1957b, 1959, 1959b

Rocas Alijos, Baja Calif.; Revillagigedo Arch.; southern Gulf of Calif.; Costa Rica; Guayas, Ecuador; Galapagos, Arch.; Clipper-ton I.

Padina caulescens Thivy

Dawson, 1954, 1957b, 1959
Isla Monserrate, Gulf of Calif.; Isla María Magdalena, Nayarit; Golfo de Nicoya, Costa Rica

Padina concrescens Thivy

Taylor, 1945
Galapagos Arch.

Padina crispata Thivy

Dawson, 1954, 1957b, 1959
Southern Gulf of Calif. to Bahía Honda, Panamá

Padina durvillaei Bory

Taylor, 1945; Dawson, 1954, 1957, 1957b, 1959; Dawson, Neushul, Wildman, 1960
Punta María, Baja Calif., to Guayas, Ecuador; Galapagos Arch.

Padina mexicana Dawson

Dawson, 1954, 1959
Isla Turner to La Paz, Gulf of Calif.

Padina tetrastromatica Hauck

Dawson, 1954
Isla María Madre, Nayarit ?

ORDER CHORDARIALES

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
Scagel, 1957
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
Scagel, 1957
Friday Harbor, Wash.
- Myrionema foecundum* f. *simplicissimum* Setchell & Gardner
Scagel, 1957
Kodiak I., Alaska, to central Calif.
- Myrionema foecundum* f. *subulatum* Setchell & Gardner
Setchell & Gardner, 1925
San Francisco, Calif.
- Myrionema globosum* f. *affine* Setchell & Gardner
Scagel, 1957
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, Calif.
- Myrionema phyllophyllum* Setchell & Gardner
Setchell & Gardner, 1925
Sitka, Alaska
- Myrionema primarium* Setchell & Gardner
Scagel, 1957
Alaska to Carmel, Calif.
- Myrionema setiferum* Setchell & Gardner
Setchell & Gardner, 1925
Sitka, Alaska
- Myrionema strangulans* Greville
Scagel, 1957
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
Tomales Bay, Calif.
- Compsonema immixtum* Setchell & Gardner
Dawson, 1954
Isla Partida, Gulf of Calif.
- Compsonema intricatum* Setchell & Gardner
Smith, 1944
Carmel, Calif.
- Compsonema myrionematoides* Setchell & Gardner
Smith, 1944
Pacific Grove, Calif.

Compsonea nummuloides Setchell & Gardner
Setchell & Gardner, 1925
Moss Beach, Calif.

Compsonea pusillum Setchell & Gardner
Smith, 1944
Carmel, Calif.

Compsonea ramulosum Setchell & Gardner
Smith, 1944
Carmel, Calif.

Compsonea secundum Setchell & Gardner
Smith, 1944
Moclips, Wash., to Carmel, Calif.

Compsonea serpens Setchell & Gardner
Smith, 1944
Monterey Peninsula, Calif.

Compsonea sessile Setchell & Gardner
Scagel, 1957
Neah Bay, Wash.

Compsonea speciosum f. *piliferum* Setchell &
Gardner
Setchell & Gardner, 1925
Moclips, Wash.

Compsonea sporangiiferum Setchell & Gard-
ner
Scagel, 1957
Neah Bay, Wash.

Compsonea streblonematoides Setchell &
Gardner
Setchell & Gardner, 1925
Tomales Bay, Calif.

Compsonea tenue Setchell & Gardner
Setchell & Gardner, 1925
Sitka, Alaska

Hecatonema clavatum Setchell & Gardner
Setchell & Gardner, 1925
Tomales Bay, Calif.

Hecatonema lawsonii Setchell & Gardner
Setchell & Gardner, 1925
Uyak Bay, Alaska

Hecatonema variabile Setchell & Gardner
Smith, 1944
Monterey Peninsula, Calif.

FAM. ELACHISTACEAE

Halothrix lumbricalis (Kützing) Reinke
Dawson, 1954
Isla Guadalupe, Baja Calif.

Elachistea fucicola (Velley) Areschoug
Scagel, 1957
Sitka, Alaska, to Coos Bay, Oreg.

Elachistea lubrica Ruprecht
Setchell & Gardner, 1925
Prince William Sound to Wrangell, Alaska

Gonodia johnstonii Setchell & Gardner
Dawson, 1954
Isla San Marcos, Gulf of Calif.

Gonodia marchantiae Setchell & Gardner
Dawson, 1954
La Paz, Gulf of Calif.

FAM. CORYNOPHLOEACEAE

Petrospongium rugosum (Okamura) Setchell &
Gardner
Smith, 1944; Dawson, 1954, 1959c
San Mateo Co., Calif., to Bahía Asunción,
Baja Calif.

Leathesia difformis (Linnaeus) Areschoug
Coe, 1932; Dawson, 1954; Scagel, 1957; Daw-
son, 1959c
Bering Sea to Bahía Asunción, Baja Calif.

Leathesia nana Setchell & Gardner
Smith, 1944; Doty, 1947; Dawson, 1958,
1959c
Oreg.; Monterey Peninsula; Carpinteria, Calif.

FAM. CHORDARIACEAE

Eudesme virescens (Carmichael) J. Agardh
Scagel, 1957
Shumagin I. to Sitka, Alaska; La Jolla, Calif.

Haplogloia andersonii (Farlow) Levring
Scagel, 1957; Dawson, 1954
Sitka, Alaska, to Cabo Colnett, Baja Calif.

Haplogloia kuckuckii Kylin
Scagel, 1957
Sitka, Alaska, to Friday Harbor, Wash.

Chordaria dissessa Setchell & Gardner
Scagel, 1957
Northern Wash.

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

Chordaria gracilis Setchell & Gardner
Setchell & Gardner, 1925
Unalaska, Alaska

Saundersella simplex (Saunders) Kylin
Scagel, 1957
Cook Inlet, Alaska, to southern British Columbia

Heterochordaria abietina (Ruprecht) Setchell & Gardner
Okamura, 1933; Scagel, 1957
Bering Sea to Point Conception, Calif.

FAM. SPERMATOCHNACEAE

Nemacystus brandegeei (Setchell & Gardner)
Kylin
Dawson, 1954, 1959
Scammon Lagoon, Baja Calif.; Gulf of Calif.

ORDER SPOROCHNALES

FAM. SPOROCHNACEAE

Carpomitra costata (Stackhouse) Batters
Dawson, Neushul, Wildman, 1960a
Vancouver I., British Columbia; Bahía Viscaíno, Baja Calif.

Carpomitra luxurians Taylor
Taylor, 1945
Galapagos Arch.

Sporochnus bolleanus Montagne
Taylor, 1945; Dawson, Neushul, Wildman, 1960a
Isla Guadalupe; central Baja Calif.; Galapagos Arch.

Sporochnus pedunculatus (Hudson) C. Agardh
Dawson, 1954; Dawson, Neushul, Wildman, 1960a
Isla Guadalupe; Scammon Lagoon, Baja Calif.

Sporochnus rostratus Taylor
Taylor, 1945
Galapagos Arch.

ORDER DESMARESTIALES

FAM. DESMARESTIACEAE

Desmarestia farcta Setchell & Gardner
Scagel, 1957
Northern Wash.

Desmarestia filamentosa Dawson
Dawson, 1954
Isla Ángel de la Guarda, Gulf of Calif.

Desmarestia foliacea Pease
Scagel, 1957
Northern Wash.

Desmarestia herbacea (Turner) Lamouroux
Scagel, 1957; Dawson, 1959c; Dawson, Neushul, Wildman, 1960
Kodiak Is., Alaska, to Isla Cedros, Baja Calif.

Desmarestia intermedia Postels & Ruprecht
Scagel, 1957
Bering Sea to Oreg.

Desmarestia jordanii Gardner
Gardner, 1940
Ventura, Calif.

Desmarestia latifrons (Ruprecht) Kützing
Doty, 1947
Coos Bay, Oreg., to Point Sur, Calif.

Desmarestia latissima Setchell & Gardner
Scagel, 1957
Northern Wash.

Desmarestia ligulata (Lightfoot) Lamouroux
Scagel, 1957
Southern British Columbia to northern Wash.

Desmarestia linearis Gardner, in Smith
Smith, 1944
Monterey Peninsula, Calif.

Desmarestia media (C. Agardh) Greville var.
media
Setchell & Gardner, 1925; Okamura, 1933
Atka I., to Unalaska, Alaska

Desmarestia media var. *tenuis* Setchell & Gardner
Scagel, 1957
Juneau, Alaska, to Puget Sound, Wash.

Desmarestia mexicana Dawson
Dawson, 1954
Isla Ángel de la Guarda, Gulf of Calif.

Desmarestia munda Setchell & Gardner
Scagel, 1957; Dawson, Neushul, Wildman,
1960
Northern British Columbia to Punta Pequeña,
Baja Calif.; Galapagos Arch.

Desmarestia pacifica Setchell & Gardner
Dawson, 1954
Santa Catalina I., Calif.; Isla Guadalupe, Baja
Calif. ?

Desmarestia tabacoides Okamura
Dawson, 1950a; Dawson, Neushul, Wildman,
1960
Santa Cruz I. to La Jolla, Calif.

Desmarestia tropica Taylor
Taylor, 1945
Galapagos Arch.

Desmarestia viridis (Müller) Lamouroux
Scagel, 1957
Alaska to Carmel, Calif.

ORDER DICTYOSIPHONALES

FAM. STRIARIACEAE

Stictyosiphon tortilis (Ruprecht) Reinke
Scagel, 1957
Port Clarence, Alaska; Monterey Peninsula,
Calif.

FAM. PUNCTARIACEAE

Punctaria chartacea Setchell & Gardner
Setchell & Gardner, 1925
Sitka, Alaska

Punctaria expansa Setchell & Gardner
Scagel, 1957
Southern British Columbia to northern Wash.

Punctaria hesperia Setchell & Gardner
Scagel, 1957
Victoria, British Columbia; Monterey; San
Pedro, Calif.

Punctaria latifolia Greville
Setchell & Gardner, 1925
Metlactla; Baranoff I., 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
Scagel, 1957
San Juan I., Wash.

Punctaria plantaginea Greville
Saunders, 1901; Setchell & Gardner, 1925
Yakutat Bay, Alaska ?

Halorbipis winstonii (Anderson) Saunders
Smith, 1944
Monterey Peninsula, Calif.

- Soranthera ulvoidea* Postels & Ruprecht f. *ulvoidea*
Scagel, 1957; Dawson, 1958, 1959c
Bering Sea to Government Point, Calif.
- Soranthera ulvoidea* f. *difformis* Setchell & Gardner
Doty, 1947
Scagel, 1957
Bering Sea to Cape Flattery, Wash.
- Myelophycus intestinale* Saunders
Okamura, 1933; Scagel, 1957
Atka I., Alaska, to Puget Sound, Wash.
- Isbige foliaceae* Okamura
Dawson, 1954; Setchell & Gardner, 1924 (as *Polyopes sinicola*)
Northern Gulf of Calif.
- Phaeostrophion australe* Dawson
Dawson, 1958, 1959c
Government Point, Calif.
- Phaeostrophion irregulare* Setchell & Gardner
Setchell & Gardner, 1925; Doty, 1947
Coos Bay, Oreg.; Bolinas, Calif.
- FAM. SCYTOSIPHONACEAE
- Scytosiphon attenuatus* (Foslie) Doty
Doty, 1947
Coos Bay, Oreg. to central Calif.
- Scytosiphon bullosus* Saunders
Dawson, 1954; Scagel, 1957
Cook Inlet, Alaska, to central Calif.; central Baja Calif.; Gulf of Calif.; Galapagos Arch.
- Scytosiphon complanatus* (Rosenvinge) Doty
Doty, 1947
Cape Arago, Oreg., to Carmel, Calif.
- Scytosiphon lomentaria* (Lyngbye) J. Agardh f. *lomentaria*
Coe, 1932; Dawson, 1954; Scagel, 1957; Dawson, 1959c
Bering Sea to Islas San Benito, Baja Calif.
- Scytosiphon lomentaria* f. *cylindricus* subf. *maculatus* Setchell & Gardner
Setchell & Gardner, 1925
San Francisco, Calif.
- Scytosiphon complanatus* (Rosenvinge) Doty
Doty, 1947
Cape Arago, Oreg., to Carmel, Calif.
- Petalonia debilis* (C. Agardh) Derbès & Solier f. *debilis*
Coe, 1932 (as *Ilea fascia*); Dawson, 1954 (as *Ilea fascia*); Scagel, 1957; Dawson, 1960a; (see also Setchell & Gardner, 1925 for *Ilea fascia* f. *caespitosa* and *Ilea fascia* f. *zosterifolia*)
Unalaska, Alaska, to Isla Magdalena, Baja Calif.
- Endarachne binghamiae* J. Agardh
Dawson, 1954, 1959c
Southern Calif. to Bahía Asunción, Baja Calif.
- Colpomenia mollis* Taylor
Taylor, 1945
Isla Gorgona, Colombia
- Colpomenia ramosa* Taylor
Dawson, 1954
Isla Cedros, Baja Calif., to Puerto Parker, Costa Rica
- Colpomenia sinuosa* (Roth) Derbès & Solier f. *sinuosa*
Taylor, 1945; Coe, 1932; Dawson, 1954, 1957, 1959, 1959c; Scagel, 1957; Dawson, Neushul, Wildman, 1960
Yakutat Bay, Alaska, to Puerto Parker, Costa Rica; Clipperton I.; Galapagos Arch.
- Colpomenia sinuosa* f. *expansa* Saunders
Setchell & Gardner, 1925
Avalon, Santa Catalina I., Calif.
- Colpomenia sinuosa* f. *tuberculata* (Saunders) Setchell & Gardner
Dawson, 1954; Scagel, 1957; Dawson, 1959
Unalaska, Alaska, to southern Baja Calif.; Gulf of Calif.

Hydroclathrus clathratus (Bory) Howe
 Coe, 1932; Dawson, 1954; Taylor, 1945;
 Dawson, 1959
 La Jolla, Calif. to Scammon Lagoon, Baja
 Calif.; southern Gulf of Calif.; Guayas,
 Ecuador

Rosenvingea intricata (J. Agardh) Børgesen
 Dawson, 1954; Taylor, 1945; Dawson, 1959
 Bahía Tepoca, Sonora, to Acapulco, Guerrero;
 Revillagigedo Arch.; Guayas, Ecuador

Rosenvingea orientalis (J. Agardh) Børgesen
 Dawson, 1960a
 Bahía Potrero Grande, Costa Rica

FAM. CHNOOSPORACEAE

Chnoospora implexa Hering, in J. Agardh
 Dawson, 1957, 1957b, 1959, 1959b
 Southern Gulf of Calif.; Golfo de Nicoya,
 Costa Rica; Clipperton I.

Chnoospora minima (Hering) Papenfuss
 Papenfuss, 1956; Dawson, 1954, 1954c (both
 as *C. pacifica*)
 La Paz, Gulf of Calif., to San Agustín, Oaxaca;
 Isla San Benedicto, Revillagigedo Arch.

Chnoospora pannosa J. Agardh
 Dawson, 1954
 Isla Guadalupe, Baja Calif.

FAM. DICTYOSIPHONACEAE

Coilodesme bulligera Stroemfelt
 Okamura, 1933; Scagel, 1957
 Aleutian Islands to Coos Bay, Oreg.

Coilodesme californica (Ruprecht) Kjellman
 Scagel, 1957; Dawson, Neushul, Wildman,
 1960, 1960a
 Queen Charlotte Str., British Columbia, to
 central Baja Calif.

Coilodesme corrugata Setchell & Gardner
 Setchell & Gardner, 1925
 Santa Catalina I., Calif.

Coilodesme cystoseirae (Ruprecht) Setchell &
 Gardner
 Setchell & Gardner, 1925
 Kukak Bay; Yakutat Bay, Alaska

Coilodesme polygnampta Setchell & Gardner
 Setchell & Gardner, 1925
 Amaknak I.; Unalaska, Alaska

Coilodesme rigida Setchell & Gardner
 Setchell & Gardner, 1925; Dawson, 1959c;
 Dawson, Neushul, Wildman, 1960, 1960a
 Redondo, Calif., to Bahía Tortuga, Baja Calif.

Coilodesme sitchensis Setchell & Gardner
 Setchell & Gardner, 1925
 Sitka, Alaska

Dictyosiphon foeniculaceus (Hudson) Greville
 Scagel, 1957
 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
 Scagel, 1957
 Southern British Columbia to northern Wash.

Dictyosiphon tenuis Setchell & Gardner
 Setchell & Gardner, 1925
 Golofin Bay, Alaska

ORDER LAMINARIALES

FAM. CHORDACEAE

Chorda filum (Linnaeus) Lamouroux
 Scagel, 1957
 Bering Sea to Puget Sound, Wash. ?

FAM. LAMINARIACEAE

- Laminaria complanata* (Setchell & Gardner)
Setchell
Scagel, 1957
Friday Harbor, Wash.
- Laminaria cordata* Dawson
Dawson, 1950a
Santa Catalina I., Calif.
- Laminaria cuneifolia* J. Agardh f. *cuneifolia*
Scagel, 1957
Bering Sea to Oreg.
- Laminaria cuneifolia* f. *amplissima* Setchell & Gardner
Scagel, 1957
Sitka, Alaska, to Cape Flattery, Wash.
- Laminaria cuneifolia* f. *angusta* Setchell & Gardner
Scagel, 1957
Southern British Columbia to northern Wash.
- Laminaria cuneifolia* f. *subsimplax* Setchell & Gardner
Scagel, 1957
Southern British Columbia to northern Wash.
- Laminaria dentigera* Kjellman
Setchell & Gardner, 1925
Aleutian Islands, Alaska
- Laminaria ephemera* Setchell
Scagel, 1957
Southern British Columbia to Oreg.; Monterey Peninsula, Calif.
- Laminaria farlowii* Setchell
Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960
Santa Cruz, Calif., to Bahía del Rosario, Baja Calif.
- Laminaria longipes* Bory
Okamura, 1933; Setchell & Gardner, 1925
Aleutian Islands, Alaska
- Laminaria personata* Setchell & Gardner
Setchell & Gardner, 1925
Yakutat Bay to Sitka, Alaska
- Laminaria platymeris* De la Pylaie
Scagel, 1957
Bering Sea to northern Wash.
- Laminaria saccharina* (Linnaeus) Lamouroux f. *saccharina*
Scagel, 1957
Alaska to Coos Bay, Oreg.
- Laminaria saccharina* f. *linearis* J. Agardh
Scagel, 1957
Unga, Alaska, to Puget Sound, Wash.
- Laminaria saccharina* f. *membranacea* J. Agardh
Scagel, 1957
Alaska to Coos Bay, Oreg.
- Laminaria setchellii* Silva
Scagel, 1957
Northern British Columbia to southern Calif. Channel Islands
- Laminaria sinclairii* (Harvey in Hooker f.) Farlow, Anderson & Eaton
Scagel, 1957; Dawson, 1958, 1959c
Southern British Columbia to Ventura Co., Calif.
- Pleurophyucus gardneri* Setchell & Saunders
Scagel, 1957
Yakutat Bay, Alaska, to Coos Bay, Oreg.
- Cyamathere triplicata* (Postels & Ruprecht) J. Agardh
Scagel, 1957
Bering Sea to northern Wash.
- Costaria costata* (Turner) Saunders
Scagel, 1957
Shumagin I., Alaska, to San Pedro, Calif.
- Costaria mertensii* J. Agardh
Scagel, 1957
Bering Sea to Monterey, Calif.

- Thalassiophyllum clathrus* (Gmelin) Postels & Ruprecht
Okamura, 1933; Scagel, 1957
Bering Sea to Straits of Juan de Fuca ?
- Agarum cribrosum* (Mertens) Bory
Scagel, 1957
Bering Sea to northern Wash.
- Agarum fimbriatum* Harvey
Scagel, 1957; Dawson, Neushul & Wildman, 1960
Puget Sound, Wash., to southern Calif. Channel Islands
- Hedophyllum bongardianum* (Postels & Ruprecht) Yendo
Miyabe & Nagai, 1932; Scagel, 1957 (as *Hedophyllum subsessile*)
Bering Sea to Coos Bay, Oreg.
- Hedophyllum sessile* (C. Agardh) Setchell
Okamura, 1933; Scagel, 1957
Aleutian Islands to Point Sur, Calif.
- Arthrothamnus bifidus* (Gmelin) J. Agardh
Setchell & Gardner, 1925
Aleutian Islands, Alaska
- FAM. LESSONIACEAE
- Dictyoneurum californicum* Ruprecht
Scagel, 1957
Vancouver I., British Columbia ?, to San Luis Obispo Co., Calif.
- Dictyoneuropsis reticulata* (Saunders) G. M. Smith
Smith, 1944; Silva, 1957
Fort Ross; Monterey Peninsula, Calif.; northern Channel Islands
- Nereocystis luetkeana* (Mertens) Postels & Ruprecht
Scagel, 1957
Shumagin I., Alaska, to San Luis Obispo Co., Calif. (drift only to Santa Barbara)
- Postelsia palmaeformis* Ruprecht
Scagel, 1957
Hope I., British Columbia to San Luis Obispo Co., Calif.
- Macrocystis integrifolia* Bory
Womersley, 1954; Scagel, 1957
Sitka, Alaska, to Carmel, Calif.
- Macrocystis pyrifera* (Linnaeus) C. Agardh
Doty, 1947; Dawson, 1954, 1957, 1959c; North, 1959; Dawson, Neushul & Wildman, 1960
Sitka, Alaska, to Punta San Hipólito, Baja Calif., and sporadically to Isla Magdalena; Rocas Alijos
- Pelagophycus porra* (Leman) Setchell
Dawson, 1954; Dawson, Neushul & Wildman, 1960
Point Conception, Calif., to Islas San Benito, Baja Calif.
- Lessoniopsis littoralis* (Farlow & Setchell ex Tilden) Reinke
Scagel, 1957
Sitka, Alaska, to Carmel, Calif.
- FAM. ALARIACEAE
- Pterygophora californica* Ruprecht
Dawson, 1954; Scagel, 1957
Southern British Columbia to Bahía del Rosario, Baja Calif.
- Alaria dolichorhachis* Kjellman
Okamura, 1933; Setchell & Gardner, 1925
Aleutian Islands, Alaska
- Alaria fistulosa* Postels & Ruprecht f. *fistulosa*
Okamura, 1933; Setchell & Gardner, 1925
Bering Sea to Wrangel, Alaska
- Alaria fistulosa* f. *platyphylla* Setchell
Setchell & Gardner, 1925
Bering Sea to southeastern Alaska
- Alaria fistulosa* f. *stenopylla* Setchell
Setchell & Gardner, 1925
Bering Sea to southeastern Alaska

Alaria lanceolata Kjellman

Setchell & Gardner, 1925
Bering Sea to Sitka, Alaska

Alaria marginata Postels & Ruprecht

Scagel, 1957
Northern British Columbia to Carmel, Calif.

Alaria nana Schrader

Scagel, 1957
Hope I., British Columbia to Carmel, Calif.

Alaria pylaiei (Bory) Greville

Setchell & Gardner, 1925
Prince William Sound to Kodiak I., Alaska

Alaria tenuifolia Setchell f. *tenuifolia*

Okamura, 1933; Setchell & Gardner, 1925
Bering Sea to northern Wash.

Alaria tenuifolia f. *amplior* Setchell & Gardner

Scagel, 1957
Southern British Columbia to northern Wash.

Alaria valida Kjellman & Setchell f. *valida*

Scagel, 1957
Unga, Alaska, to Puget Sound, Wash.

Alaria valida f. *longipes* Setchell & Gardner

Scagel, 1957
Queen Charlotte Sound, British Columbia, to
northern Wash.

Eisenia arborea Areschoug

Dawson, 1954, 1959c; Dawson, Neushul &
Wildman, 1960
Kyuquot Sound, Vancouver I., British Colum-
bia; Redondo, Calif. to Isla Magdalena,
Baja Calif.

Eisenia desmarestioides Setchell & Gardner

Dawson, 1954
Isla Guadalupe, Baja Calif.

Eisenia galapagensis Taylor

Taylor, 1945
Galapagos Arch.

Eisenia masonii Setchell & Gardner

Dawson, 1954
Isla Guadalupe, Baja Calif.

Egregia laevigata Setchell subsp. *laevigata*

Coe, 1932; Dawson, 1954, 1957 (as *E. aus-*
tralis Hollenberg ms.), 1959c; Dawson,
Neushul & Wildman, 1960; Silva, 1957
Goleta, Calif., to Punta San Eugenio, Baja
Calif.; Rocas Alijos

Egregia laevigata subsp. *borealis* (Setchell)
Silva

Silva, 1957
Santa Cruz to Gaviota, Calif.

Egregia menziesii (Turner) Areschoug subsp.
menziesii

Scagel, 1957
Northern British Columbia to Point Concep-
tion, Calif.

Egregia menziesii subsp. *insularis* Silva

Silva, 1957
Northern Channel Islands, Calif.

ORDER FUCALES

FAM. FUCACEAE

Fucus distichus Linnaeus, emend Powell

Powell, 1957 (All species and subspecies of
Fucus heretofore recognized from Pacific
North America, with the exception of *F.*
parksii, are considered by Powell as var-
iants of *F. distichus*. Under subspecies
edentatus he places *F. edentatus* De la
Pylaie, *F. furcatus* C. Ag. (*F. gardneri*
Silva), *F. nitens* Gard. and *F. evanescens*
C. Ag., in part. Under subsp. *evanescens*
he places *F. evanescens* C. Ag., in part. He
considers *F. membranaceus* Gard. not suf-
ficiently distinct even for subspecies status.
See Dawson, 1946a, for a listing of the
described forms, also Scagel, 1957 (various
northern forms); Dawson, 1958 (as *F.*
furcatus), 1959c (as *F. furcatus*)
Bering Sea to Government Point, Calif.

- Fucus parksii* Gardner
Gardner, 1940
Humbolt Bay; Eureka, Calif.
- Pelvetia fastigiata* (J. Agardh) G. De Toni f. *fastigiata*
Dawson, 1954; Scagel, 1957; Dawson, 1959c
Horswell Channel, British Columbia; Coos Bay, Oreg., to Punta Baja, Baja Calif.
- Pelvetia fastigiata* f. *gracilis* Setchell & Gardner
Smith, 1944; Dawson, 1954
Monterey Peninsula; Channel Islands, Calif.; northern Baja Calif.
- Pelvetiopsis arborescens* Gardner
Gardner, 1940
Point Carmel, Calif.
- Pelvetiopsis limitata* (Setchell) Gardner f. *limitata*
Scagel, 1957
Hope I., British Columbia, to Carmel, Calif.
- Pelvetiopsis limitata* f. *lata* Gardner
Smith, 1944
Tomales Point to Monterey, Calif.
- Hesperophycus harveyanus* (Decaisne) Setchell & Gardner
Dawson, 1954, 1959c
Santa Cruz, Calif., to Islas San Benito, Baja Calif.
- FAM. SARGASSACEAE
- Cystophora brandegeei* (Setchell & Gardner) Dawson
Dawson, 1954, 1945c
La Jolla, Calif., to Isla Guadalupe, Baja Calif.
- Cystophora galapagensis* (Piccone & Grunow in Piccone) comb. nov.
Taylor, 1945 (as *Blossevillea galapagensis*); Piccone, 1886: 40 (as *Fucodium galapagense*)
Galapagos Arch.
- Cystoseira geminata* C. Agardh
Scagel, 1957
Bering Sea to northern Wash.
- Cystoseira neglecta* Setchell & Gardner
Dawson, 1954
Santa Catalina I., Calif., to Desembarcadero de Miller, Baja Calif.
- Cystoseira osmundacea* (Menzies) C. Agardh
Doty, 1947; Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960.
Seaside, Oreg., to Punta Abreojos, Baja Calif.
- Cystoseira setchellii* Gardner
Setchell & Gardner, 1925
Redondo to San Diego, Calif.
- Halidrys dioica* Gardner
Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960
Redondo, Calif., to Isla Asunción, Baja Calif.
- Sargassum acinacifolium* Setchell & Gardner
Dawson, 1954
Puerto Libertad to Guaymas, Sonora
- Sargassum agardhianum* Farlow
Dawson, 1954, 1959c, 1960a; Dawson, Neushul & Wildman, 1960
Point Dume, Calif., to Punta Eugenio, Baja Calif.
- Sargassum albemarlense* Taylor
Taylor, 1945; Dawson, 1957
Galapagos Arch.
- Sargassum brandegeei* Setchell & Gardner
Taylor, 1945; Dawson, 1954, 1959
Puerto Libertad to Isla San Pedro Nolasco, Gulf of Calif.; Galapagos Arch.
- Sargassum camouii* Dawson
Dawson, 1954
Bahía Viscaíno, Baja Calif.; east central Gulf of Calif.
- Sargassum ecuadorenum* Taylor
Taylor, 1945
Vicinity of Guayas, Ecuador

- Sargassum galapagense* Grunow
Taylor, 1945
Galapagos Arch.
- Sargassum herporbizum* Setchell & Gardner
Dawson, 1954
Isla George; Isla San Pedro Mártir, Gulf of Calif.
- Sargassum horridum* Setchell & Gardner
Dawson, 1954, 1959
Southern Gulf of Calif.
- Sargassum howellii* Setchell & Gardner
Dawson, 1954
Revillagigedo Arch.
- Sargassum johnstonii* Setchell & Gardner f. *johnstonii*
Dawson, 1954
Punta Peñasco to Bahía Agua Verde, Gulf of Calif.
- Sargassum johnstonii* f. *gracile* Setchell & Gardner
Dawson, 1954
Punta Peñasco to Guaymas, Gulf of Calif.
- Sargassum lapazeanum* Setchell & Gardner
Dawson, 1954
Guaymas to La Paz, Gulf of Calif.
- Sargassum liebmannii* J. Agardh var. *liebmannii*
Dawson, 1954, 1957b
San Jose del Cabo, Baja Calif., to Bahía Honda, Panamá
- Sargassum liebmannii* var. *nicoyana* Grunow
Dawson, 1957b
Golfo de Nicoya, Costa Rica
- Sargassum macdongalii* Dawson
Dawson, 1954, 1959
Central and northern Gulf of Calif.
- Sargassum muticum* (Yendo) Fensholt
Scagel, 1957
Nanaimo, British Columbia, to Coos Bay, Oreg.
- Sargassum pacificum* Bory f. *pacificum*
Taylor, 1945; Dawson, 1957
Galapagos Arch.
- Sargassum pacificum* f. *congestum* Setchell
Taylor, 1945
Galapagos Arch.
- Sargassum pacificum* f. *rigidiusculum* (Grunow) Setchell
Taylor, 1945
Galapagos Arch.
- Sargassum pacificum* f. *megaphyllum* Taylor
Taylor, 1945
Galapagos Arch.
- Sargassum palmeri* Grunow
Dawson, 1954
Santa Cruz ?; Santa Catalina I., Calif., to Islas San Benito, Baja Calif.
- Sargassum setifolium* (Grunow) Setchell
Taylor, 1945; Dawson, 1957
Galapagos Arch.
- Sargassum sinicola* Setchell & Gardner
Dawson, 1954, 1959
Punta Peñasco to La Paz, Gulf of Calif.; Isla Guadalupe, Baja Calif.
- Sargassum skottsbergii* Sjoestedt, prox.
Taylor, 1945
Salinas, Ecuador
- Sargassum sonorensense* Dawson
Dawson, 1960a
Northern Gulf of Calif.
- Sargassum templetonii* Setchell
Taylor, 1945; Dawson, Neushul & Wildman, 1960a
Isla Magdalena, Baja Calif.; Galapagos Arch.
- Sargassum vizcainense* Dawson
Dawson, 1954; Dawson, Neushul & Wildman, 1960a
Bahía Vizcaino and Isla Cedros to Punta Pequeña, Baja Calif.

Sargassum zaca Setchell

Taylor, 1945
Galapagos Arch.

PHYLUM RHODOPHYCOPHYTA

CLASS RHODOPHYCEAE

SUBCLASS BANGIOPHYCIDAE

ORDER GONIOTRICHALES

FAM. GONIOTRICHACEAE

Goniotrichum cornu-cervi (Reinsch) Hauck

Scagel, 1957
Friday Harbor, Wash.; Santa Cruz I., Calif.

Goniotrichum elegans (Chauvin) Zanardini

Taylor, 1945 (as *G. alsidii*); Dawson, 1954,
1957*b*; Scagel, 1957
Friday Harbor, Wash., to Isla Gorgona, Co-
lombia

Goniotrichopsis sublittoralis G. M. Smith

Smith, 1944
Monterey, Calif.

ORDER BANGIALES

FAM. ERYTHROPELTIDACEAE

Smithora naiadum (Anderson) Hollenberg

Hollenberg, 1959; Dawson, Neushul & Wild-
man, 1960; Dawson, 1949*a* (as *Porphyra*
naiadum); Scagel, 1957 (as *Porphyra nai-*
adum); Dawson, 1954 (as *Porphyra nai-*
adum var. *australis*), 1959*c* (as *Porphyra*
naiadum)
Northern British Columbia to Isla Magdalena,
Baja Calif.

Erythropeltis discigera (Berthold) Schmitz

Dawson, 1954
Isla Tiburón, Gulf of Calif.

Erythrotrichia ascendens Dawson

Dawson, 1954
Cabo Pulmo, southern Gulf of Calif.

Erythrotrichia biseriata Tanaka

Dawson, 1954, 1954*c*
Islas San Benito; Punta Abrejos, Baja Calif.;
Gulf of Calif. to Mazatlán, Sinaloa; Isla
San Benedicto, Revillagigedo Arch.

Erythrotrichia boryana (Montagne) Berthold

Dawson, 1954
Punta Baja to Bahía Asunción, Baja Calif.

Erythrotrichia californica Kylin

Smith, 1944; Dawson, 1954
Monterey, Calif.; Ensenada, Baja Calif.; Isla
Tiburón, Gulf of Calif.

Erythrotrichia carnea (Dillwyn) J. Agardh

Smith, 1944; Dawson, 1954, 1957*b*, 1959*b*
Monterey, Calif., to Golfo Dulce, Costa Rica;
Clipperton I.

Erythrotrichia ciliaris (Carmichael) Batters

Dawson, 1954
Punta Baja; Isla Cedros, Baja Calif.

Erythrotrichia kylinii Gardner

Scagel, 1957
Bering Sea to Puget Sound, Wash.

Erythrotrichia parksii Gardner var. *parksii*

Gardner, 1927
Eureka, Calif.

Erythrotrichia parksii var. *minor* Gardner

Scagel, 1957
Southern British Columbia to northern Wash.

Erythrotrichia polymorpha Howe

Taylor, 1945
Galapagos Arch.

Erythrotrichia porphyroides Gardner

Gardner, 1927
San Francisco, Calif.

Erythrotrichia pulvinata Gardner

Doty, 1947; Hollenberg, 1948; Dawson, 1954
Middle Bay, Oreg., to Bahía Asunción, Baja
Calif.

- Erythrotrichia tetraseriata* Gardner
Dawson, 1954
San Pedro, Calif.; Isla Magdalena, Baja Calif.
- Erythrotrichia welwitschii* (Ruprecht) Batters
Doty, 1947
South Bay, Oreg.; Monterey, Calif.
- Erythrocladia ectozoica* Dawson
Dawson, 1954
Scammon Lagoon, Baja Calif.
- Erythrocladia irregularis* Rosenvinge
Dawson, 1954; Scagel, 1957
Northern Wash. to Monterey, Calif.; Isla
Turner, Gulf of Calif.
- Erythrocladia subintegra* Rosenvinge
Dawson, 1954; Scagel, 1957
Northern Wash. to northern Baja Calif.; Gulf
of Calif.
- FAM. BANGIACEAE
- Bangia enteromorphoides* Dawson
Dawson, 1954
Mazatlán, Sinaloa
- Bangia fuscopurpurea* (Dillwyn) Lyngbye
Dawson, 1954, 1959c; Scagel, 1957
Northern British Columbia to Costa Rica
- Bangia maxima* Gardner
Gardner, 1927
Bolinas, Calif.
- Bangia tenuis* Gardner
Scagel, 1957
Orcas I., Wash.
- Bangia vermicularis* Harvey
Sanborn & Doty, 1946; Doty, 1947
Coos Bay, Oreg., to Carmel, Calif.
- Porphyra abyssicola* Kjellman
Scagel, 1957
Southern British Columbia to northern Wash.
- Porphyra amplissima* (Kjellman) Setchell & Hus
Scagel, 1957
Amaknak I., Alaska, to northern Wash.
- Porphyra hollenbergii* Dawson
Dawson, 1954, 1959
Southern Gulf of Calif.
- Porphyra laciniata* (Lightfoot) C. Agardh
Setchell & Gardner, 1903
Amaknak I. to Sitka, Alaska
- Porphyra lanceolata* (Setchell & Hus) G. M.
Smith
Scagel, 1957
Chehalis Bay, Wash. to Carmel, Calif.
- Porphyra miniata* f. *cuneiformis* Setchell & Hus
Scagel, 1957
Gulf of Alaska to Monterey, Calif.
- Porphyra nereocystis* Anderson
Scagel, 1957
Uyak Bay, Alaska, to San Pedro, Calif.? (prob-
ably to San Luis Obispo Co.)
- Porphyra occidentalis* Setchell & Hus
Sanborn & Doty, 1946; Doty, 1947
Coos Bay, Oreg.; Carmel Bay, Calif.
- Porphyra pendula* Dawson
Dawson, 1954
Isla Partida; Isla Patos, Gulf of Calif.
- Porphyra perforata* J. Agardh f. *perforata*
Okamura, 1933; Dawson, 1954, 1959c; Scagel,
1957
Aleutian Islands, Alaska, to Isla Magdalena,
Baja Calif.
- Porphyra perforata* f. *segregata* Setchell & Hus
Scagel, 1957
Southern British Columbia to northern Calif.
- Porphyra pulchra* Hollenberg
Smith, 1944
Santa Cruz to Monterey, Calif.

Porphyra schizophylla Hollenberg

Doty, 1947

Harris State Park; Otter Point, Oreg.; Pescadero Point, Calif.

Porphyra thuretii Setchell & Dawson, in Dawson

Doty, 1947; Dawson, 1954, 1959c

Chetco Cove, Oreg., to Isla Magdalena, Baja Calif.; Gulf of Calif.; Puerto Parker, Costa Rica

Porphyra tenuissima (Stroemfelt) Setchell & Hus

Setchell & Gardner, 1903

Shumagin I.; Yakutat Bay, Alaska

Porphyra umbilicalis (Linnaeus) Kützing

Scagel, 1957 (but with incorrect authorship)

St. Paul I., Alaska, to southern British Columbia

Porphyra variegata (Kjellman) Hus

Scagel, 1957

Southern British Columbia to Monterey, Calif.

Porphyrella californica Hollenberg

Hollenberg, 1945

Southern Calif.

Porphyrella gardneri Smith & Hollenberg

Hollenberg, 1945; Scagel, 1957

Northern British Columbia to Monterey, Calif.

Porphyropsis coccinea (J. Agardh) Rosenvinge

Scagel, 1957

Friday Harbor, Wash.

Conchocelis rosea Batters (probably represents a stage in the life cycle of one or more species of *Porphyra*)

Scagel, 1957

Northern Wash.

SUBCLASS FLORIDEOPHYCIDAE

ORDER NEMALIONALES

FAM. ACROCHAETIACEAE

Acrochaetium amphiroae (Drew) PapenfussDawson, 1945b (as *Rhodochorton amphiroae*); Doty, 1947; Dawson, 1954
Oreg. to Isla Cedros, Baja Calif.*Acrochaetium angustum* (Drew) Papenfuss

Papenfuss, 1945

Santa Catalina I., Calif.

Acrochaetium ascidiophilum Dawson

Dawson, 1954

Bahía San Quintín, Baja Calif.

Acrochaetium bonnemaisoniae (Batters) J. & G. Feldmann

Dawson, 1954

Punta San Quintín, Baja Calif.

Acrochaetium borneyi Papenfuss

Dawson, 1954

San Pedro, Calif.; Punta Pequeña, Baja Calif.

Acrochaetium coccineum (Drew) Papenfuss

Papenfuss, 1945

Marin Co.; San Francisco, Calif.

Acrochaetium daviesii (Dillwyn) Nägeli

Dawson, 1954; Dawson, Neushul & Wildman, 1960a

Carmel, Calif., to Isla Clarión, Revillagigedo Arch.

Acrochaetium densum (Drew) Papenfuss

Papenfuss, 1945

San Francisco, Calif.

Acrochaetium desmarestiae Kylin

Scagel, 1957

Northern Wash. to Oreg.

Acrochaetium dictyotae Collins

Papenfuss, 1945

San Diego Co., Calif.

- Acrochaetium eastwoodae* (Setchell & Gardner) Papenfuss
Dawson, 1954
Isla Clarión, Revillagigedo Arch.
- Acrochaetium elegans* (Drew) Papenfuss
Papenfuss, 1945
La Jolla, Calif.
- Acrochaetium erythrophyllum* Jao
Scagel, 1957
Port Angeles, Wash.
- Acrochaetium gymnogongri* (Drew) Papenfuss
Papenfuss, 1945
San Francisco, Calif.
- Acrochaetium hancockii* (Dawson) Papenfuss
Dawson, 1954
Isla Ángel de la Guarda, Gulf of Calif.
- Acrochaetium infestans* Howe & Hoyt
Dawson, 1960a
Puerto Culebra, Costa Rica
- Acrochaetium macounii* (Collins) Hamel
Scagel, 1957
Vancouver I., British Columbia, 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
Dawson, 1954; Scagel, 1957; Dawson, Neushul & Wildman, 1960a
Northern Wash.; Oreg.; Islas San Benito, Baja Calif.; vicinity of Guaymas, Sonora
- Acrochaetium penetrale* (Drew) Papenfuss
Taylor, 1945; Dawson, 1954
La Jolla, Calif.; Bahía San Quintín, Baja Calif.; Puerto Parker, Costa Rica
- Acrochaetium plumosum* (Drew) G. M. Smith
Papenfuss, 1945; Dawson, 1954
Tomales Bay, Calif., to Bahía Asunción, Baja Calif.
- Acrochaetium punctatum* Dawson
Dawson, 1954
Bahía Bocochoibampo, Sonora
- Acrochaetium rhizoideum* (Drew) Jao var. *rhizoideum*
Dawson, 1954; Scagel, 1957
Wash. to Isla Cedros, Baja Calif.
- Acrochaetium rhizoideum* var. *patens* (Drew) G. M. Smith
Smith, 1944
Carmel, Calif.
- Acrochaetium scinaiae* Dawson
Dawson, 1954
Santa Barbara I., Calif.; Gulf of Calif.
- Acrochaetium simplex* (Drew) Papenfuss
Papenfuss, 1945
Santa Monica, Calif.
- Acrochaetium sinicolum* (Dawson) Papenfuss
Dawson, 1954
Isla Turner, Gulf of Calif.
- Acrochaetium spiculiphilum* Dawson
Dawson, 1954
Bahía San Quintín, Baja Calif.
- Acrochaetium subimmersum* (Setchell & Gardner) Papenfuss
Scagel, 1957
Northern Wash. to Carmel, Calif.
- Acrochaetium subseriatum* Børgesen
Dawson, 1959b
Clipperton I.
- Acrochaetium tenuissimum* (Collins) Papenfuss
Papenfuss, 1945
San Pedro, Calif.

- Acrochaetium thuretii* var. *agama* (Rosenvinge) Dawson
Dawson, 1945d
San Pedro, Calif.
- Acrochaetium vagum* (Drew) Jao
Scagel, 1957
Northern Wash. to Moss Beach, Calif.
- Acrochaetium variabile* (Drew) G. M. Smith
Dawson, 1954; Scagel, 1957; Dawson, 1954c
Northern Wash. to Isla San Martín, Baja Calif.; Mazatlán, Sinaloa; Isla San Benedicto, Revillagigedo Arch.
- Kylinia arcuata* (Drew) Kylin
Dawson, 1954; Scagel, 1957
Cape Flattery, Wash., to Moss Beach, Calif.; Isla Turner, Gulf of Calif.
- Kylinia crassipes* (Børgeesen) Kylin
Dawson, 1954
Bahía Vizcaino, Baja Calif.; Isla Rasa, Gulf of Calif. ?
- Kylinia hirsuta* (Drew) Kylin
Dawson, 1949; Scagel, 1957
Vancouver, British Columbia; Santa Catalina I., Calif.
- Kylinia implicata* (Drew) Papenfuss
Papenfuss, 1947
Moss Beach, Calif.
- Kylinia microscopica* (Nägeli) Kylin
Kylin, 1944; Papenfuss, 1945 (as *Chromastrum microscopicum*)
La Jolla, Calif.
- Kylinia moniliformis* (Rosenvinge) Kylin
Scagel, 1957
Vancouver I., British Columbia
- Kylinia porphyrae* (Drew) Papenfuss
Papenfuss, 1945 (as *Chromastrum porphyrae*); Dawson, 1954
San Francisco; Monterey, Calif.; Bahía San Quintín, Baja Calif.
- Kylinia secundata* (Lyngbye) Papenfuss
Dawson, 1954
Bahía Bocochoibampo, Sonora
- Kylinia seriaspora* Dawson
Dawson, 1954
Isla Turner, Gulf of Calif.
- Rhodochorton concreescens* Drew
Papenfuss, 1945
Carmel Bay, Calif.
- Rhodochorton penicilliforme* (Kjellman) Rosenvinge
Scagel, 1957
Spruce I., Alaska, to San Juan Co., Wash.
- Rhodochorton purpureum* (Lightfoot) Rosenvinge
Dawson, 1954; Scagel, 1957
Bering Sea to Punta Eugenio, Baja Calif.
- Rhodochorton tenue* Kylin
Scagel, 1957
San Juan I., Wash.; Santa Cruz, Calif.
- Audouinella membranacea* (Magnus) Papenfuss
Scagel, 1957
San Juan Co., Calif.

FAM. HELMINTHOCLADIACEAE

- Nemalion helminthoides* (Velley) Batters
Dawson, 1954; Scagel, 1957; Dawson, 1959c, 1960a
Sitka, Alaska, to Isla Magdalena, Baja Calif.
- Nemalion pulvinatum* Grunow
Dawson, 1954
Bahía Agua Verde, Baja Calif.
- Nemalion virens* J. Agardh
Dawson, 1954
Cabeza Ballena, southern Baja Calif.; Pacific Mexico, probably Oaxaca
- Helminthora saundersii* Gardner
Smith, 1944
Monterey, Calif.

Helminthora stricta Gardner

Gardner, 1926
La Jolla, Calif.

Dermonema frappieri (Montagne & Millardet)

Børgesen
Dawson, 1954, 1954*b*, 1954*c*, 1959
Isla San Benedicto, Revillagigedo Arch.; Isla
Carmén, Gulf of Calif.; Mazatlán, Sinaloa

Helminthocladia californica (J. Agardh) Kylin

Dawson, 1954
Santa Barbara, Calif., to Punta Pequeña, Baja
Calif.

Helminthocladia gracilis Gardner

Gardner, 1926
Santa Barbara, Calif.

Cumagloia andersonii (Farlow) Setchell & Gardner

Dawson, 1954; Scagel, 1957
Hope I., British Columbia, to Cabo Colnett,
Baja Calif.

Liagora abbotiae Dawson

Dawson, 1954
Punta Santa Rosalía, Baja Calif.

Liagora californica Zeh

Dawson, 1945*d*, 1954
Santa Catalina I., Calif., to Isla Guadalupe,
Baja Calif.

Liagora ceranoides Lamouroux f. *ceranoides*

Taylor, 1945; Dawson, 1957*b*
Costa Rica

Liagora ceranoides f. *leprosa* (J. Agardh) Yamada

Dawson, 1954
Isla Guadalupe; Bahía Vizcaino, Baja Calif.

Liagora farinosa Lamouroux f. *farinosa*

Dawson, 1959
Southwestern Gulf of Calif.

Liagora farinosa f. *pinnatiramosa* Yamada

Dawson, 1954, 1957
Isla Guadalupe; Rocas Alijos, Baja Calif.

Liagora magniinvolutra Dawson

Dawson, 1954, 1959
Southwestern Gulf of Calif.

Liagora orientalis J. Agardh

Dawson, 1954
Bahía Vizcaino, Baja Calif.

Liagora valida Harvey

Dawson, 1957*b*
Golfo Dulce, Costa Rica

FAM. CHAETIANGIACEAE

Gloiophloea confusa Setchell

Dawson, 1954, 1959*c*, 1960*a*; Scagel, 1957;
Taylor, 1945; Dawson, Neushul & Wild-
man, 1960; also see Levring, 1955
Vancouver I., British Columbia, to Punta
María, Baja Calif.; Gulf of Calif.; Costa
Rica; Galapagos Arch.

Scinaia articulata Setchell

Setchell, 1914*a*; Dawson, 1949
Santa Barbara I.; Santa Barbara, Calif.

Scinaia complanata (Collins) Cotton

Taylor, 1945
Puerto Culebra, Costa Rica; Galapagos Arch.

Scinaia johnstoniae Setchell

Taylor, 1945; Dawson, 1954; Dawson, Neu-
shul & Wildman, 1960
Southern Calif. to Costa Rica; Gulf of Calif.;
Galapagos Arch.

Scinaia latifrons Howe

Taylor, 1945; Dawson, 1954, 1953, 1960*a*
Southern Calif. to Puerto Guatulco, Oaxaca;
Gulf of Calif.; Galapagos Arch.

Scinaia minima Dawson

Dawson, 1954
Isla Cedros, Baja Calif.

Scinaia setchellii Taylor

Taylor, 1945
Galapagos Arch.

- Pseudoscinaia snyderae* Setchell
Setchell, 1914a; Dawson, 1945b
San Pedro to San Diego, Calif.
- Whidbeyella cartilaginea* Setchell & Gardner
Scagel, 1957
Whidbey I., Wash.
- Galaxaura angustifrons* Kjellman
Taylor, 1945
Galapagos Arch.
- Galaxaura arborea* Kjellman
Dawson, 1954, 1959
Bahía Santa María, Baja Calif.; southern Gulf
of Calif.
- Galaxaura barbata* Chou
Taylor, 1945
Galapagos Arch.
- Galaxaura fastigiata* Decaisne
Dawson, 1954, 1959
Isla Guadalupe; Bahía Vizcaino, Baja Calif.;
Gulf of Calif.; Isla María Madre, Nayarit
- Galaxaura filamentosa* Chou
Taylor, 1945; Dawson, 1954, 1957b
Isla Clarión, Revillagigedo Arch.; Costa Rica;
Galapagos Arch.
- Galaxaura intermedia* Chou
Taylor, 1945
Galapagos Arch.
- Galaxaura marginata* Lamouroux
Farlow, 1902
Galapagos Arch.
- Galaxaura oblongata* (Ellis & Solander) Lamouroux
Taylor, 1945
Esmeraldas, Ecuador
- Galaxaura ramulosa* Kjellman
Taylor, 1945; Dawson, 1957b
Golfo Dulce, Costa Rica; Isla Jicarita, Panamá
- Galaxaura spatulata* Kjellman
Taylor, 1945
Galapagos Arch.
- Galaxaura squalida* Kjellman
Taylor, 1945; Dawson, 1954
Southeasternmost Baja Calif.; Bahía Honda,
Panamá
- Galaxaura stupocaula* Chou
Dawson, 1957b
Costa Rica
- Galaxaura subfruticulosa* Chou
Dawson, 1954
Punta Palmilla, Baja Calif. del Sur; Isla Clarión,
Revillagigedo Arch.
- Galaxaura veprecula* Kjellman
Taylor, 1945; Dawson, 1954, 1957b, 1959
Southern Gulf of Calif.; Costa Rica; Galapagos,
Arch.

FAM. BONNEMAISONIACEAE

- Bonnemaisonia nootkana* (Esper) Silva
Scagel, 1957
Northern British Columbia to Santa Rosa I.,
Calif.
- Bonnemaisonia geniculata* Gardner
Smith, 1944
Carmel Bay to Point Sur, Calif.
- Bonnemaisonia hamifera* Hariot
Feldmann & Feldmann, 1942; Dawson, 1954
(both as the gametophyte generation of
Trailliella intricata); Kylin, 1941 (as *Asparagopsis hamifera*); Silva, 1957a (as *Bonnemaisonia intricata*, the alternate generation of *Trailliella intricata*)
Santa Rosa I., Calif., to Punta San Quintín,
Baja Calif.
- Trailliella intricata* Batters
Scagel, 1957 (as sporophyte generation of
Bonnemaisonia)
Northern Wash. to central Baja Calif.

Asparagopsis taxiformis (Delile) Collins & Hervey

Dawson, 1954, 1957, 1959 (as the gametophyte generation of *Falkenbergia hillebrandii*)

Isla Guadalupe; central Baja Calif.; Rocas Alijos; Revillagigedo Arch.; Gulf of Calif.; Isla Salango, Ecuador; Galapagos Arch.

Asparagopsis svedelii Taylor

Taylor, 1945

Galapagos Arch.

Falkenbergia hillebrandii (Bornet) Falkenberg
Dawson, 1954 (as the sporophyte generation of *Asparagopsis taxiformis*)

Isla Guadalupe; Bahía Vizcaino, Baja Calif.; Miramar, Nayarit; Puerto Marqués, Guerrero

ORDER GELIDIALES

FAM. GELIDIACEAE

Gelidium arborescens Gardner

Smith, 1944

Monterey to Cambria, Calif.

Gelidium cartilagineum var. *robustum* Gardner

Scagel, 1957; Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960

Southern British Columbia to Isla Magdalena, Baja Calif.

Gelidium contortum Loomis

Loomis, 1960

San Francisco; Topanga, Calif.

Gelidium coronadense Dawson

Dawson, 1954

Islas Los Coronados, Baja Calif.

Gelidium coulteri Harvey

Sanborn & Doty, 1946; Doty, 1947; Dawson, 1954, 1959c

Coos Bay, Oreg., to Isla Magdalena, Baja Calif.

Gelidium crinale (Turner) Lamouroux var. *crinale*

Dawson, 1954, 1959c; Scagel, 1957; Taylor, 1945

Southern British Columbia to Isla Magdalena, Baja Calif.; Gulf of Calif.; Mazatlán, Sinaloa; Galapagos Arch.

Gelidium crinale var. *luxurians* Collins

Gardner, 1927e; Dawson, 1954

Southern Calif. to Punta Baja, Baja Calif.

Gelidium deciduum Dawson

Dawson, 1954

Cabeza Ballena, near San Lucas, Baja Calif.

Gelidium densum Gardner

Gardner, 1927e; Dawson, 1959c

Montecito; San Pedro, Calif.

Gelidium distichum Loomis

Loomis, 1949

Redondo, Calif.

Gelidium filicinum Bory

Taylor, 1945

Galapagos Arch.

Gelidium gardneri Loomis

Loomis, 1960

Santa Monica Bay, Calif.

Gelidium galapagense Taylor

Taylor, 1945

Galapagos Arch.

Gelidium hancockii Taylor

Taylor, 1945 (probably the *G. serrulatum* of Farlow, 1902)

Galapagos Arch.

Gelidium isabelae Taylor

Taylor, 1945

Bahía Utria, Colombia; Galapagos Arch.

Gelidium johnstonii Setchell & Gardner

Dawson, 1954, 1959

Punta Santa Rosalía; Isla Magdalena, Baja Calif.; Gulf of Calif.

- Gelidium microdentatum* Dawson
Dawson, 1960a
San Blas, Nayarit
- Gelidium microphysa* Setchell & Gardner
Dawson, 1954
Isla Guadalupe; Isla Cedros, Baja Calif.;
northern Gulf of Calif.
- Gelidium nudifrons* Gardner
Dawson, 1954; Dawson, Neushul & Wild-
man, 1960, 1960a
Southern Calif. to Bahía Tortuga, Baja Calif.
- Gelidium papenfussii* Loomis
Dawson, 1954
San Francisco; Santa Monica, Calif.; Punta
Baja; Punta Santa Rosalía, Baja Calif.
- Gelidium polystichum* Gardner
Dawson, 1949, 1954
San Pedro; Santa Catalina I., Calif.; Isla Gua-
dalupe, Baja Calif.
- Gelidium pulchrum* Gardner
Kylin, 1941; Sanborn & Doty, 1946; Doty,
1947; Dawson, 1954, 1959c
Coos Bay, Oreg., to Bahía Rosario, Baja Calif.
- Gelidium purpurascens* Gardner
Smith, 1944; Dawson, 1954, 1959c; Dawson,
Neushul & Wildman, 1960
Bolinas, Calif., to Cabo Colnett, Baja Calif.
- Gelidium pusillum* (Stackhouse) Le Jolis var.
pusillum
Smith, 1944; Doty, 1947; Dawson, 1954,
1954c, 1957b, 1959
Oreg. to Panamá
- Gelidium pusillum* var. *cylindricum* Taylor
Taylor, 1945; Dawson, 1953
Pacific Mexico; Esmeraldas, Ecuador
- Gelidium pusillum* var. *pacificum* Taylor
Taylor, 1945
Galapagos Arch.
- Gelidium pusillum* var. *minusculum* Weber van
Bosse
Dawson, 1953
Pacific Mexico
- Gelidium pusillum* var. *mucronatum* Dangeard
Dawson, 1953
Pacific Mexico
- Gelidium pusillum* var. *conchicola* Piccone &
Grunow
Dawson, 1953
Pacific Mexico
- Gelidium pusillum* var. *pulvinatum* (C. Agardh)
Feldmann
Dawson, 1953
Pacific Mexico
- Gelidium ramuliferum* Gardner
Gardner, 1927e; Dawson, 1959c
Santa Barbara; San Pedro, Calif.
- Gelidium sclerophyllum* Taylor
Taylor, 1945; Dawson, 1954, 1957b
Isla Clarión, Revillagigedo Arch.; southern
Baja Calif. to Golfo Dulce, Costa Rica;
Esmeraldas; Guayas, Ecuador
- Gelidium setchellii* Gardner
Gardner 1927e
Marin Co., Calif.
- Gelidium sinicola* Gardner
Doty, 1947; Smith, 1944
South Bay, Oreg.; San Francisco Bay; Mon-
terey, Calif.
- Gelidium ? sonorensis* Dawson
Dawson, 1954
Near Guaymas, Sonora
- Gelidium undulatum* Loomis
Loomis, 1960
Redondo, Calif.
- Gelidium venturianum* Dawson
Dawson, 1958
Mussel Shoals, Ventura Co., Calif.

Pterocladia caloglossoides (Howe) Dawson

Dawson, 1954; Dawson, Neushul & Wildman, 1960a; Doty, 1947 (as *Gelidium caloglossoides*); Smith, 1944 (as *Gelidium caloglossoides*)

Oreg. ?; Monterey Peninsula, Calif. ?; Southern Calif. to Isla Asunción, Baja Calif.; Barra de Navidad, Jalisco

Pterocladia complanata Loomis

Dawson, 1954

Anaheim Landing, Calif.; Punta Descanso; Punta Eugenio, Baja Calif.

Pterocladia media Dawson

Dawson, 1958

La Jolla, Calif.

Pterocladia mcNabbiana Dawson

Dawson, 1957b

Golfo Dulce, Costa Rica

Pterocladia musciformis Taylor

Dawson, 1957b, 1960a

Bahía Carrizal, Colima; Golfo Dulce, Costa Rica

Pterocladia parva Dawson

Dawson, 1954

San Felipe, Gulf of Calif.

Pterocladia pyramidale (Gardner) Dawson

Dawson, 1954, 1954c, 1957, 1959 (as probably including *Gelidium decompositum*), 1959c; Dawson, Neushul & Wildman, 1960

Southern Calif. to Isla Magdalena, Baja Calif.; Isla Guadalupe; Rocas Alijos; Revillagigedo Arch.; central Gulf of Calif.; Galapagos Arch.; vicinity of Guayas, Ecuador

Gelidiocolax microsphaerica Gardner

Dawson, 1954; Fan & Papenfuss, 1959

Balboa, Calif.; Punta Descanso; Isla San Martín, Baja Calif.

FAM. GELIDIACEAE

Gelidiella acerosa (Forsskål) Feldmann & Hamel

Dawson, 1954

Southern Gulf of Calif. to Central America

Gelidiella adnata Dawson

Dawson, 1954c

Isla San Benedicto, Revillagigedo Arch.

Gelidiella hancockii Dawson

Dawson, 1954, 1959, 1960a

Bahía Magdalena, Baja Calif.; Gulf of Calif.; Isla del Caño, Costa Rica; Isla del Rey, Panamá

Gelidiella ligulata Dawson

Dawson, 1954

Southeasternmost Baja Calif.

Gelidiella machrisiana Dawson

Dawson, 1957b

Golfo de Nicoya, Costa Rica

Gelidiella ? refugiensis Dawson

Dawson, 1954

Isla Ángel de la Guarda; Bahía San Carlos ?, Gulf of Calif.

Gelidiella stichidiospora Dawson

Dawson, 1954

Isla Cedros, Baja Calif.

Gelidiella pannosa (Feldmann) Feldmann & Hamel

Dawson, 1957b (as *G. tenuissima*)

Costa Rica

OF UNCERTAIN FAMILY POSITION

Wurdemannia miniata (Draparnaud) Feldmann & Hamel

Dawson, 1954, 1957b

Puerto San Carlos, Gulf of Calif. to Panamá

ORDER CRYPTONEMIALES

FAM. DUMONTIACEAE

- Dudresnaya colombiana* Taylor
Taylor, 1945
Isla Gorgona, Colombia
- Cryptosiphonia woodii* (J. Agardh) J. Agardh
Scagel, 1957; Dawson, 1959c
Unalaska, Alaska, to Venice, Calif.
- Thuretellopsis peggiana* Kylin
Scagel, 1957
Friday Harbor, Wash.
- Dumontia filiformis* (Lyngbye) J. Agardh
Setchell & Gardner, 1903
Alaska
- Baylesia plumosa* Setchell
Smith, 1944
Santa Cruz, Monterey, Calif.
- Pikea californica* Harvey
Dawson, 1954, Scagel, 1957
Southern British Columbia to Punta Baja,
Baja Calif.
- Pikea pinnata* Setchell
Scagel, 1957
Northern Wash. to Coronado, Calif.
- Farlowia compressa* J. Agardh
Scagel, 1957
Northern Wash. to Carmel, Calif.
- Farlowia mollis* (Harvey & Bailey) Farlow &
Setchell
Scagel, 1957; Doty, 1947 (as including *F.*
crassa); Dawson, 1959c (as *F. crassa*)
Dixon Harbor, Alaska, to San Diego, Calif.
- Dilsea californica* (J. Agardh) Schmitz
Scagel, 1957
Unga I., Alaska, to San Francisco, Calif.
- Dilsea integra* (Kjellman) Rosenvinge
Setchell & Gardner, 1903 (as *Sarcophyllis*
arctica)
Alaska
- Leptocladia binghamiae* J. Agardh
Setchell, 1912; Kylin, 1941; Dawson, 1954;
Dawson, Neushul & Wildman, 1960; Tay-
lor, 1945
Santa Cruz, Calif., to Isla Magdalena, Baja
Calif.; Galapagos Arch.
- Leptocladia conferta* Setchell
Smith, 1944; Doty, 1947 (as *Pikea nootkana*)
Crescent City to Carmel Bay, Calif.
- Weeksia fryeana* Setchell
Scagel, 1957
Northern Wash.
- Weeksia howellii* Setchell & Gardner
Dawson, 1954
Isla Natividad, Baja Calif.
- Weeksia reticulata* Setchell
Smith, 1944; Dawson, 1945e (but the de-
termination erroneous)
Monterey Peninsula, Calif.
- Weeksia templetonii* Setchell & Gardner
Dawson, 1954
Santa Cruz I., Calif.; Isla Cedros, Baja Calif.
- Constantinea rosa-marina* (Gmelin) Postels &
Ruprecht
Setchell & Gardner, 1903; Setchell, 1906
Western Aleutian Islands to Sitka, Alaska
- Constantinea simplex* Setchell
Scagel, 1957
Northern British Columbia to Carmel, Calif.
- Constantinea subulifera* Setchell
Scagel, 1957
Northern British Columbia to northern Wash.

FAM. RHIZOPHYLLIDACEAE

- Ochtodes crockeri* Setchell & Gardner
Taylor, 1945; Dawson, 1957
Galapagos Arch.

FAM. GLOIOSIPHONACEAE

- Gloiosiphonia californica* (Farlow) J. Agardh
Dawson, 1954; Scagel, 1957; Dawson, 1958
Sitka, Alaska, to Punta Baja, Baja Calif.
- Gloiosiphonia capillaris* (Hudson) Carmichael
Scagel, 1957
Southern British Columbia
- Gloiosiphonia verticillaris* Farlow
Scagel, 1957
Sitka, Alaska, to Carmel Bay, Calif.

FAM. ENDOCLADIACEAE

- Gloiopeltis furcata* (Postels & Ruprecht) J. Agardh
Scagel, 1957
Aleutian Islands, Alaska, to Oreg.
- Gloiopeltis minuta* Kylin
Kylin, 1941; Dawson, 1954
Santa Catalina I., Calif.; Islas San Benito;
Punta Eugenio, Baja Calif.
- Endocladia muricata* (Postels & Ruprecht) J. Agardh
Okamura, 1933; Dawson, 1954, 1959c; Scagel, 1957
Aleutian Islands, Alaska, to Punta Santo Tomás, Baja Calif.

FAM. SQUAMARIACEAE

- Ethelia mexicana* Dawson
Dawson, 1954
Acapulco, Guerrero
- Peyssonelia clarionensis* Taylor
Taylor, 1945; Dawson, 1954
Isla Clarión, Revillagigedo Arch.; Galapagos Arch.
- Peyssonelia conchicola* Piccone & Grunow
Dawson, 1954, 1957b
Bahía San Lucas, Baja Calif.; Golfo Dulce, Costa Rica

- Peyssonelia guadalupensis* Dawson
Dawson, 1954
Isla Guadalupe, Baja Calif.
- Peyssonelia mexicana* Dawson
Dawson, 1954
Cabo Colnett, Baja Calif.; Acapulco, Guerrero
- Peyssonelia pacifica* Kylin
Dawson, 1954; Scagel, 1957
San Juan I., Wash., to Isla Cedros, Baja Calif.; Mazatlán, Sinaloa
- Peyssonelia rubra* var. *orientalis* Weber van Bosse
Dawson, 1954, 1957, 1959; Dawson, Neushul & Wildman, 1960
Southern Calif. Channel Islands to Miramar, Nayarit; Revillagigedo Arch.; Galapagos Arch.
- Peyssonelia squamaria* (Gmelin) Decaisne
Dawson, 1954
San Jose del Cabo, Baja Calif.
- Cruoriella dubyi* (Crouan & Crouan) Schmitz
Dawson, 1954, 1959c, 1960a
La Jolla, Calif., to Isla Brincanco, Panamá
- Cruoriella fissurata* Dawson
Dawson, 1954, 1957b, 1960a
Guaymas, Sonora, to Isla del Rey, Panamá
- Cruoriella hancockii* Dawson
Dawson, 1954, 1960a
Islas San Benito, Baja Calif., to Bahía Santiago, Colima
- Cruoriella magdalenae* Dawson
Dawson, 1954
Punta Eugenio; Isla Magdalena, Baja Calif.
- Rhododermis elegans* Crouan
Smith, 1944; Hollenberg, 1948
Marin Co. to Monterey, Calif.
- Rhododermis georgii* (Batters) Collins
Doty, 1947
Cape Arago, Oreg. ?

Asymmetria expansa (Setchell & Gardner) Setchell & Gardner
Smith, 1944
Monterey, Calif.

FAM. HILDENBRANDIACEAE

Hildenbrandia canariensis var. *dawsonii* Ardré
Ardré, 1959; Dawson, 1954 (as *H. prototypus*
var. *keguelensis*); Dawson, Neushul &
Wildman, 1960a
Central Baja Calif.

Hildenbrandia galapagensis Setchell & Gardner
Setchell & Gardner, 1937
Galapagos Arch.

Hildenbrandia occidentalis Setchell
Taylor, 1945; Scagel, 1957; Dawson, Neu-
shul & Wildman, 1960a
Northern British Columbia to Isla San Ge-
rónimo, Baja Calif.; Galapagos Arch.

Hildenbrandia prototypus Nardo
Taylor, 1945; Dawson, 1954, 1954c, 1957b,
1959, 1959c; Scagel, 1957 (in part as *H.*
rosea)
Alaska to Panamá; Galapagos Arch.

FAM. CORALLINACEAE

Archeolithothamnium crosslandi Lemoine
Taylor, 1945
Galapagos Arch.

Archeolithothamnium howei Lemoine
Lemoine, 1929; Dawson, 1960a
Isla Coiba, Panamá

Archeolithothamnium zonatosporum Foslie
Foslie, 1906; Dawson, 1960a
Long Beach, Calif. ?

Sporolithon pacificum Dawson
Dawson, 1960a
Isla del Caño, Costa Rica

Melobesia galapagensis (Foslie) Taylor
Taylor, 1945
Galapagos Arch.

Melobesia marginata Setchell & Foslie
Scagel, 1957; Dawson, 1959c, 1960
Southern British Columbia to Bahía Vizcaino,
Baja Calif.; southern Gulf of Calif.; Re-
villagigedo Arch.; Costa Rica

Melobesia mediocris (Foslie) Setchell & Mason
Scagel, 1957; Dawson, 1959c, 1960; Dawson,
Neushul & Wildman, 1960
Northern British Columbia to Isla Magda-
lena, Baja Calif.

Melobesia membranacea (Esper) Lamouroux
Dawson, 1960
Cabeza Ballena, Baja Calif.; Isla San Bene-
dicto, Revillagigedo Arch.

Melobesia polystromatica Dawson
Dawson, 1960
Bahía Tenacatita, Jalisco

Lithothamnium aculeiferum L. Mason
Dawson, 1960
Duxbury Reef, Calif., to Scammon Lagoon,
Baja Calif.

Lithothamnium australe (Foslie) Foslie
Dawson, 1960
Isla Guadalupe, Baja Calif., to Bahía Honda,
Panamá. Gulf of Calif.; Revillagigedo
Arch.

? *Lithothamnium bisporum* Foslie
Dawson, 1949
Santa Catalina I., Calif.

Lithothamnium californicum Foslie
Scagel, 1957; Dawson, 1959c, 1960
Southern British Columbia to Isla Magdalena,
Baja Calif.

Lithothamnium cottoni Lemoine
Taylor, 1945
Galapagos Arch.

Lithothamnium fruticosum (Kützting) Foslie
Dawson, 1960; Dawson & Beaudette, 1960
Bodega Bay, Calif., to Bahía Uvita, Costa
Rica; Islas Revillagigedos; southern Gulf
of Calif.

- Lithothamnium giganteum* L. Mason
Dawson, 1960; Dawson, Neushul & Wildman, 1960
Southern Calif. to central Baja Calif.; Bahía Petatlán, Guerrero; Corinto, Nicaragua ?
- Lithothamnium guadalupensis* Dawson
Dawson, 1960
Isla Guadalupe, Baja Calif.
- Lithothamnium heteromorphum* (Foslie) Foslie
Dawson, 1957b
Golfo de Nicoya, Costa Rica ?
- ? *Lithothamnium laeve* (Strömfelt) Foslie
Dawson, 1960
Vicinity of Isla Cedros, Baja Calif.
- Lithothamnium lamellatum* Setchell & Foslie
Smith, 1944; Doty, 1947; Dawson, 1960; Dawson, Neushul & Wildman, 1960
Oreg. to central Baja Calif.
- Lithothamnium lenormandii* (Areschoug) Foslie
Dawson, 1960
Throughout Pacific Baja Calif.; northern Gulf of Calif.; Bahía Santiago, Colima; Puerto Guatulco, Oaxaca
- Lithothamnium montereyicum* Foslie
Smith, 1944; Dawson, 1949; Mason, 1953; Dawson, 1960 (as possibly a form of *L. australe*)
Monterey; Anacapa I., Calif.
- Lithothamnium muricatum* (Foslie) G. De Toni
Scagel, 1957
Port Renfrew, British Columbia
- Lithothamnium pacificum* (Foslie) Foslie
Scagel, 1957; Dawson, 1960; Taylor, 1945
Vancouver I., British Columbia, to La Jolla, Calif.; Isla Grande, Guerrero ?; Galapagos Arch. ?
- Lithothamnium phymatodeum* Foslie
Scagel, 1957
Whidbey I., Wash., to Pacific Grove, Calif.
- Lithothamnium pocillum* Lemoine
Taylor, 1945
Galapagos Arch.
- Lithothamnium volcanum* Dawson
Dawson, 1960
Santa Cruz I., Calif.; Cortez Bank; Isla Magdalena, Baja Calif.
- Polyporolithon conchatum* (Setchell & Foslie) L. Mason
Scagel, 1957
Southern British Columbia to Cambria, Calif.
- Polyporolithon parcum* (Setchell & Foslie) L. Mason
Scagel, 1957
San Juan I., Wash., to Carmel, Calif.
- Polyporolithon reclinatum* (Foslie) L. Mason
Scagel, 1957
Vancouver I., British Columbia, to La Jolla, Calif.
- Clathromorphum compactum* (Kjellman) Foslie
Mason, 1953
St. Michael, Norton Sound, Alaska
- Clathromorphum circumscriptum* (Strömfelt) Foslie
Mason, 1953
Aleutian I. to Unalaska, Alaska
- Hydrolithon arenicolum* Dawson
Dawson, 1960
Scammon Lagoon, Baja Calif.
- Hydrolithon conicum* Dawson
Dawson, 1960
Isla Socorro, Revillagigedo Arch.
- Hydrolithon reinboldii* (Weber van Bosse & Foslie) Foslie
Dawson, 1960
Revillagigedo Arch.
- Hydrolithon setchellii* (Foslie) Setchell & L. Mason
Dawson, 1960
Redondo to La Jolla, Calif.; Isla Guadalupe, Baja, Calif.

- Fosliella farinosa* (Lamouroux) Howe
Dawson, 1960
Isla Guadalupe; southern Baja Calif.; Islas
Tres Marias to Acapulco, Guerrero
- Fosliella* (?) *minuta* Taylor
Taylor, 1945
Bahía Honda, Panamá; Guayas, Ecuador
- Fosliella paschalis* (Lemoine) Setchell & Gard-
ner
Dawson, 1959*b*, 1960
Isla Guadalupe, Baja Calif.; Isla Ildefonso;
Punta Palmilla, Gulf of Calif.; Clipperton I.
- Goniolithon tessellatum* (Lemoine) Setchell &
L. Mason
Setchell & Mason, 1943; Dawson, 1960*a*
Islas Contreras, Panamá; Galapagos Arch.
- Dermatolithon canescens* (Foslie) Foslie
Dawson, 1957*b*, 1960
Isla Guadalupe; Bahía Vizcaino, Baja Calif.;
central Gulf of Calif.; Mazatlán, Sinaloa;
Costa Rica
- Dermatolithon corallinae* (Crouan & Crouan)
Foslie
Dawson, 1960
Santa Catalina I., Calif.; Cabeza Ballena, Baja
Calif.; Bahía Tenacatita, Jalisco
- Dermatolithon dispar* (Foslie) Foslie
Scagel, 1957; Dawson, 1960; Dawson, Neu-
shul & Wildman, 1960
Northern Wash. to La Jolla, Calif.; Cabeza
Ballena, Baja Calif.; near Guaymas, Sonora
- Dermatolithon pustulatum* (Lamouroux) Foslie
f. *pustulatum*
Dawson, 1957
Galapagos Arch.
- Dermatolithon pustulatum* f. *ascripticium* (Fos-
lie) Foslie ex De Toni
Dawson, 1959*c* (as *D. ascripticium*), 1960;
Taylor, 1945 (as *Lithophyllum mutabile*)
Coos Bay, Oreg., to Bahía Ballena, Costa
Rica; Revillagigedo Arch.; Galapagos Arch.
- Dermatolithon saxicolum* (Lemoine) Setchell &
L. Mason
Setchell & Mason, 1943
Isla Cocos, Costa Rica
- Dermatolithon veleroae* Dawson
Dawson, 1960
Bahía Agua Verde, Baja Calif.
- Tenarea erecta* Lemoine
Taylor, 1945
Galapagos Arch.
- Porolithon castellum* Dawson
Dawson, 1960*a*
Isla del Caño, Costa Rica
- Porolithon coccosicum* Lemoine
Lemoine, 1929
Isla Cocos, Costa Rica
- Porolithon oncodes* (Heydrich) Foslie
Dawson, 1959*b*, 1960*a*
Isla del Caño, Costa Rica; Clipperton I.
- Porolithon marshallense* Taylor
Dawson, 1959*b*
Clipperton I. ?
- Porolithon sonorensis* Dawson
Dawson, 1960
Bahía Vizcaino, Baja Calif.; northern Gulf of
Calif.
- Mesophyllum laxum* Lemoine
Taylor, 1945
Galapagos Arch.
- Lithophyllum alternans* Lemoine
Taylor, 1945
Galapagos Arch.
- Lithophyllum amplexistratum* Taylor
Taylor, 1945
Galapagos Arch.
- Lithophyllum* (?) *coibense* Lemoine
Lemoine, 1929
Isla Coiba, Panamá

- Lithophyllum complexum* Lemoine
Taylor, 1945
Galapagos Arch.
- Lithophyllum decipiens* Foslie
Scagel, 1957; Dawson, 1957*b*, 1959*c*, 1960
Northern British Columbia to Guaymas, Sonora; Revillagigedo Arch.; Costa Rica ?; Islas Perlas, Panamá
- Lithophyllum* sp. aff. *L. detrusum* Foslie
Dawson, 1960
Isla Cedros, Baja Calif.
- Lithophyllum diguetii* (Hariot) Heydrich
Dawson, 1960
Isla Ángel de la Guarda; vicinity of La Paz, Gulf of Calif.
- Lithophyllum* (?) *divaricatum* Lemoine
Taylor, 1945; Dawson, 1960
Galapagos Arch.
- Lithophyllum farlowii* Heydrich
Taylor, 1945
Galapagos Arch.
- Lithophyllum* (?) *fetum* Foslie
Lemoine, 1929
Isla Cocos, Costa Rica
- Lithophyllum frutescens* (Foslie) Lemoine f. *frutescens*
Taylor, 1945 (possibly the *Litothamnium calcareum* of Harvey, 1847)
Galapagos Arch.
- Lithophyllum frutescens* f. *galapagense* Foslie
Taylor, 1945
Galapagos Arch.
- Lithophyllum grumosum* (Foslie) Foslie
Smith, 1944; Doty, 1947; Dawson, 1960
Capa Arago, Oreg. ?, to Bahía Vizcaino, Baja Calif.; Isla San Benedicto, Revillagigedo Arch.
- Lithophyllum hancockii* Dawson
Dawson, 1960
Isla Espiritu Santo, Gulf of Calif.
- Lithophyllum imitans* Foslie
Dawson, 1960; Dawson, Neushul & Wildman, 1960
Moss Beach, Calif., to central Baja Calif.; Gulf of Calif.; Revillagigedo Arch.; Puerto Guatulco, Oaxaca
- Lithophyllum intermedium* Foslie
Taylor, 1945
Galapagos Arch.
- Lithophyllum lichenare* L. Mason
Scagel, 1957; Dawson, 1960
Kanaka Bay, Wash.; Farnsworth Bank, so. Calif.; Punta Banda, Baja Calif.
- Lithophyllum lithophylloides* Heydrich
Dawson, 1960
Gulf of Calif.; Isla Clarión, Revillagigedo Arch.
- Lithophyllum* (?) *lividum* Lemoine
Lemoine, 1929
Isla Cocos, Costa Rica
- Lithophyllum margaritae* (Hariot) Heydrich
Dawson, 1960
Vicinity of La Paz, Gulf of Calif.
- Lithophyllum moluccense* var. *geministratum*
Taylor
Taylor, 1945
Galapagos Arch.
- Lithophyllum neofarlowii* Setchell & L. Mason
Scagel, 1957; Dawson, 1960
San Juan Islands, Wash., to Cambria, Calif.; Bahía Asunción, Baja Calif.
- Lithophyllum pallescens* (Foslie) Heydrich
Dawson, 1960
Southern Gulf of Calif.; Islas Contreras, Panamá
- Lithophyllum proboscidium* Foslie var. *proboscidium*
Dawson, 1960
Bodega Bay, Calif., to Punta Santa Rosalía, Baja Calif.; vicinity of Guaymas, Sonora; Barra de Navidad, Jalisco; Acapulco, Guerrero

- Lithophyllum proboscideum* var. *delicatulum* Dawson
Dawson, 1960
Isla Guadalupe, Baja Calif.
- Lithophyllum* (?) *propinquum* var. *cocosica* Lemoine
Lemoine, 1929
Isla Cocos, Costa Rica
- Lithophyllum reesei* Dawson
Dawson, 1960
Punta Banda, Baja Calif.
- Lithophyllum rileyi* Lemoine
Taylor, 1945 (as probably equal to the *Lithothamnium crassum* of Piccone, 1889)
Galapagos Arch.
- Lithophyllum samoense* Foslie
Dawson, 1960
Isla Cedros, Baja Calif.
- Lithophyllum sancti-georgei* Lemoine
Taylor, 1945
Galapagos Arch.
- Lithophyllum trichotomum* (Heydrich) Lemoine
Dawson, 1957, 1960
Revillagigedo Arch.; Gulf of Calif. to Isla Jicarón, Panamá; Galapagos Arch.
- Lithophyllum veleroae* Dawson
Dawson, 1960
Isla Espíritu Santo; vicinity of Santa Rosalía, Gulf of Calif.
- Lithophyllum whidbeyense* Foslie
Scagel, 1957
Southern British Columbia to northern Wash.
- Heteroderma corallinicola* Dawson
Dawson, 1960
Guaymas, Sonora
- Heteroderma gibbsii* (Foslie & Setchell) Foslie
Dawson, 1960
Gulf of Calif.
- Heteroderma lejolisii* (Rosanoff) Foslie
Dawson, 1960
Bahía San Quintín, Baja Calif.
- Heteroderma minutula* Foslie
Dawson, 1959b, 1960
Isla Guadalupe; Bahía Tortuga, Baja Calif.; Puerto Guatulco, Oaxaca, to Punta Naranja, Panamá; Clipperton I.
- Heteroderma nicholsii* Setchell & L. Mason
Dawson, 1960
Bolinas, Calif., to Punta Abreojos, Baja Calif.
- Heteroderma parvicarpa* Dawson
Dawson, 1960
Scammon Lagoon, Baja Calif.
- Heteroderma subtilissima* (Foslie) Foslie
Dawson, 1960
Isla Guadalupe, Baja Calif.; southwesternmost Gulf of Calif.
- Litholepis accola* Foslie
Dawson, 1960
Isla Guadalupe, Baja Calif.; Isla Clarión, Revillagigedo Arch.
- Litholepis fertilis* (Lemone) Setchell & L. Mason
Setchell & Mason, 1943
Isla Coiba, Panamá
- Litholepis sonorensis* Dawson
Dawson, 1960
Isla Espíritu Santo, Gulf of Calif.
- Choreonema thuretii* (Bornet) Schmitz
Taylor, 1945; Hollenberg, 1948; Dawson, 1949, 1960
Southern Calif.; Isla Guadalupe to Bahía Vizcaino, Baja Calif.; southwestern Gulf of Calif.; Revillagigedo; Costa Rica; Galapagos Arch.
- Corallina bathybentha* Dawson
Dawson, 1949
Southern Calif. Channel Islands

- Corallina berterii* Mont. ?
Farlow, 1902; Lemoine, 1929 (as *Arthrocar-
dia* sp.)
Galapagos Arch.
- Corallina delicatulus* (Doty) comb. nov.
Doty, 1947: 167 (as *Joculator delicatulus*)
Cape Arago, Oreg.
- Corallina gracilis* Lamouroux var. *gracilis*
Dawson, 1945*b*, 1954, 1959*c*; Dawson, Neu-
shul & Wildman, 1960
Southern Calif. to Isla Cedros, Baja Calif.
- Corallina gracilis* var. *verticillata* Dawson
Dawson, 1954
Santa Catalina I., Calif. ?; Isla Guadalupe,
Baja Calif.
- Corallina janioides* Dawson
Dawson, 1954
Isla Guadalupe, Baja Calif.
- Corallina officinalis* Linnaeus var. *officinalis*
Taylor, 1945
Galapagos Arch.
- Corallina officinalis* var. *chilensis* (Harvey)
Kützing
Scagel, 1957; Dawson, 1954, 1959*c*; Dawson,
Neushul & Wildman, 1960
Northern British Columbia to Isla Magdalena,
Baja Calif.; Guayas, Ecuador
- Corallina pilulifera* Postels & Ruprecht
Scagel, 1957 (as to Alaska records only)
Alaska
- Corallina pinnatifolia* (Manza) Dawson var.
pinnatifolia
Dawson, 1954, 1958, 1959*c*; Taylor, 1945
(as *Joculator pinnatifolius*)
Carpinteria, Calif., to Isla Magdalena, Baja
Calif.; Galapagos Arch.
- Corallina pinnatifolia* var. *digitata* Dawson
Dawson, 1954, 1959
Throughout the Gulf of Calif.
- Corallina polysticha* Dawson
Dawson, 1954, 1959
Santa Catalina I., Calif., to Bahía Vizcaino,
Baja Calif.
- Corallina vancouveriensis* Yendo var. *vancouver-
iensis*
Dawson, 1954, 1959*c*, 1960*a*; Scagel, 1957;
Dawson, Neushul & Wildman, 1960
Southern British Columbia to Punta Lobos,
near Todos Santos, Baja Calif.
- Corallina vancouveriensis* var. *densa* Yendo
Dawson, 1953
Northern part of the range of the species.
- Corallina vancouveriensis* var. *aculeata* (Yendo)
Dawson
Dawson, 1954
Throughout the range of the species.
- Corallina vancouveriensis* var. *lycopodioides*
(Taylor) Dawson
Dawson, 1954
Southern Calif. and Baja Calif.
- Serraticardia macmillani* (Yendo) Silva 1957
Scagel, 1957; Silva, 1957
Vancouver I., British Columbia; Fort Ross;
Pescadero Point, Calif.
- Cheilosporum planiusculum* (Kützing) Yendo
Yendo, 1902
Port Renfrew, Vancouver I., British Columbia
- Cheilosporum frondescens* (Postels & Ruprecht)
Yendo f. *frondescens*
Yendo, 1902
Port Renfrew, Vancouver I., British Columbia
- Cheilosporum frondescens* f. *maxima* Yendo
Yendo, 1902
Port Renfrew, Vancouver I., British Columbia
- Cheilosporum frondescens* f. *intermedia* Yendo
Yendo, 1902
Port Renfrew, Vancouver I., British Columbia

- Cheilosporum frondescens* f. *polymorpha* Yendo
Yendo, 1902
Port Renfrew, Vancouver I., British Columbia
- Pachyarthron cretaceum* (Postels & Ruprecht)
Manza
Scagel, 1957
Unalaska, Alaska, to northern Wash.
- Lithothrix aspergillum* J. E. Gray
Dawson, 1954, 1959c; Scagel, 1957; Dawson,
Neushul & Wildman, 1960
Vancouver I., British Columbia, to Isla Mag-
dalena, Baja Calif.
- Bossiella californica* (Decaisne) Silva
Scagel, 1957
Southern British Columbia to Monterey, Calif.
- Bossiella corymbifera* (Manza) Silva
Scagel, 1957
Vancouver I., British Columbia, to Point Lo-
bos, Calif.
- Bossiella cooperi* (Dawson & Silva) Silva
Silva, 1957
Southern Calif. Channel Islands to Punta Baja,
Baja Calif.
- Bossiella dichotoma* (Manza) Silva var. *dicho-
toma*
Dawson, 1954, 1959c, 1960a; Scagel, 1957
Southern British Columbia to Punta Thurloe,
Baja Calif.
- Bossiella dichotoma* var. *gardneri* (Manza)
Dawson
Dawson, 1960a, 1954 (as *Bossea gardneri*);
Silva, 1957 (as *Bossiella gardneri*); Daw-
son, 1959c (as *Bossiella dichotoma-gard-
neri* complex); Dawson, Neushul & Wild-
man, 1960 (as *Bossiella gardneri*)
Oreg. to Punta María, Baja Calif.
- Bossiella insularis* (Dawson & Silva) Silva
Silva, 1957; Dawson, 1958, 1959c
Southern Calif. Channel Islands; Port Hue-
neme, Calif., to Bahía Asunción, Baja,
Calif.
- Bossiella interrupta* (Manza) Silva
Silva, 1957
Pacific Grove, Calif.
- Bossiella ligulata* (Dawson) Silva
Silva, 1957; Dawson, 1958, 1959c
Ventura Co., Calif.; Isla Guadalupe, Baja
Calif.
- Bossiella orbigniana* (Decaisne) Silva
Doty, 1947 (as *Bossea orbigniana*); Dawson,
1954 (as *Bossea orbigniana*); Silva, 1957;
Dawson, 1959c; Dawson, Neushul & Wild-
man, 1960
Cape Arago, Oreg. to Isla Cedros, Baja Calif.
- Bossiella pachyclada* (Taylor) Silva
Dawson, 1954 (as *Bossea pachyclada*); Silva,
1957
Santa Cruz I., Calif., to Isla Cedros, Baja Calif.
- Bossiella plumosa* (Manza) Silva
Scagel, 1957; Dawson, 1959c
Vancouver I., British Columbia, to Govern-
ment Point, Calif.
- Bossiella sagitata* (Dawson & Silva) Silva
Silva, 1957; Dawson, 1958, 1959c
Southern Calif. Channel Islands; Port Hue-
neme, Calif.; Islas Coronados; Punta Eu-
genio, Baja Calif.
- Jania adhaerens* Lamouroux, prox.
Taylor, 1945
Esmeraldas, Ecuador
- Jania arborescens* Yendo, prox. ?
Taylor, 1945
Guayas, Ecuador
- Jania capillacea* Harvey
Taylor, 1945; Dawson, 1954, 1957, 1957b,
1959, 1959b
Isla Cedros, Baja Calif., to Guayas, Ecuador;
Galapagos Arch.
- Jania decussato-dichotoma* (Yendo) Yendo
Dawson, 1954, 1959
La Jolla, Calif.; southern Gulf of Calif.

Jania longiarthro Dawson

Dawson, 1954, 1957*b*, 1959, 1959*b*
 Southern Gulf of Calif.; Golfo de Nicoya,
 Costa Rica; Clipperton I.

Jania mexicana Taylor

Dawson, 1954
 Mazatlán, Sinaloa, to Salina Cruz, Oaxaca

Jania natalensis Harvey

Dawson, 1954, 1958, 1959*c*
 Lechuza Point, southern Calif., to Isla Cedros,
 Baja Calif.

Jania subpinnata Dawson

Dawson, 1954
 Bahía de La Paz, Gulf of Calif.

Jania tenella Kützinger var. *tenella*

Dawson, 1954, 1954*c*, 1957, 1957*b*, 1959,
 1959*b*, 1959*c*
 Southern Calif. to Costa Rica; Clipperton I.

Jania tenella var. *zaca*e Dawson

Dawson, 1954, 1957*b*
 Bahía Vizcaino, Baja Calif.; Isla Ildefonso,
 Gulf of Calif.; Costa Rica

Jania unguata Yendo, prox.

Taylor, 1945
 Galapagos Arch.; Guayas, Ecuador

Amphiroa annulata Lemoine var. *annulata*

Dawson, 1954, 1957, 1957*b*, 1959
 Central Baja Calif.; Southern Gulf of Calif.
 to Costa Rica; Galapagos Arch.

Amphiroa annulata var. *pinnata* Dawson

Dawson, 1954, 1957*b*
 Cape district, Baja Calif.; Golfo Dulce, Costa
 Rica?

Amphiroa beauvoisii Lamouroux

Dawson, 1957*b*
 Costa Rica

Amphiroa brevianiceps Dawson

Dawson, 1954; Dawson, Neushul & Wild-
 man, 1960*a*
 Punta San Hipólito, Baja Calif.; Guaymas ?,
 Punta Frailes ?, Gulf of Calif.; Salina Cruz,
 Oaxaca

Amphiroa compressa Lemoine

Taylor, 1945 (as probably equal to the *A.*
dilatata of Farlow, 1902)
 Galapagos Arch.

Amphiroa crosslandii Lemoine

Dawson, 1954, 1957
 Rocas Alijos, Baja Calif.; Isla Socorro, Revil-
 lagigedo Arch. ?; Tangola-Tangola, Oaxaca;
 Isla Gorgona, Colombia

Amphiroa dimorpha Lemoine var. *dimorpha*

Dawson, 1954, 1954*c*, 1957*b*, 1959; Dawson,
 Neushul & Wildman, 1960, 1960*a*; Taylor,
 1945
 Central Pacific Baja Calif. to Central Amer-
 ica; Gulf of Calif.; Islas Revillagigedo;
 Galapagos Arch.

Amphiroa dimorpha var. *digitiforme* Dawson

Dawson, 1959
 Isla Carmén; Isla Ildefonso, Gulf of Calif.

Amphiroa drouetii Dawson

Dawson, 1954, 1959
 Central and southern Gulf of Calif.

Amphiroa foliacea Lamouroux

Dawson, 1954
 Punta Verlero, Bahía Vizcaino, Baja Calif.;
 Isla María Magdalena, Nayarit

Amphiroa epiphlegmoides J. Agardh, in Harvey

Harvey, 1862
 Fuca Strait, Wash.

Amphiroa franciscana Taylor var. *franciscana*

Dawson, 1954
 Isla Guadalupe, Baja Calif.; Isla María Mag-
 dalena, Nayarit; Esmeraldas; Guayas, Ecu-
 ador

Amphiroa franciscana var. *robusta* Dawson

Dawson, 1954
Bahía Agua Verde, Gulf of Calif.; Acapulco,
Guerrero

Amphiroa galapagensis Taylor

Taylor, 1945
Galapagos Arch.

Amphiroa magdalenensis Dawson

Dawson, 1954, 1959
Isla Guadalupe; Isla Magdalena, Baja Calif.;
southern Gulf of Calif.

Amphiroa mexicana Taylor

Dawson, 1954
Morro de Petatlán, Guerrero; Salina Cruz,
Oaxaca

Amphiroa minutissima Taylor

Dawson, 1957b
Golfo Dulce, Costa Rica

Amphiroa peruana Areschoug

Taylor, 1945
Galapagos Arch.

Amphiroa subcylindrica Dawson

Dawson, 1954, 1959
Gulf of Calif.; Barra de Navidad, Jalisco

Amphiroa taylorii Dawson

Dawson, 1954, 1954c, 1957b, 1959
Revillagigedo Arch.; southern Gulf of Calif.;
Isla María Magdalena, Nayarit; Costa Rica

Amphiroa tuberculosa (Postels & Ruprecht)
Endlicher

Yendo, 1902
Port Renfrew, British Columbia

Amphiroa vanbosseae Lemoine

Taylor, 1945
Galapagos Arch.

Amphiroa zonata Yendo

Taylor, 1945 (as *A. peninsularis*); Dawson,
1954, 1959c; Dawson, Neushul & Wild-
man, 1960
Santa Catalina I., Calif., to Isla Magdalena,
Baja Calif.; Gulf of Calif.; Isla María
Madre, Nayarit; Esmeraldas, Ecuador

Arthrocardia tuberculosa Weber van Bosse

Lemoine, 1929 (as equal to the *Amphiroa*
orbigniana of Farlow, 1902)
Galapagos Arch.

Calliarthron chielosporioides Manza

Smith, 1944; Dawson, 1954; Dawson, Neu-
shul & Wildman, 1960
Bolínas, Calif., to Isla Cedros, Baja Calif.

Calliarthron regenerans Manza

Scagel, 1957; Dawson, Neushul & Wildman,
1960, 1960a
Vancouver I., British Columbia, to Isla San
Geronimo, Baja Calif.

Calliarthron setchelliae Manza

Smith, 1944
Moss Beach; Monterey, Calif.

Calliarthron schmittii Manza

Dawson, 1949; Scagel, 1957
San Juan I., Wash.; Tanner Bank; San Diego,
Calif.

FAM. DERMOCORYNIDACEAE

Dermocorynus occidentalis Hollenberg

Dawson, 1954
Los Angeles Co., Calif., to Punta Banda, Baja
Calif.

FAM. CRYPTONEMIACEAE

Grateloupia abbreviata Kylin

Hollenberg, 1948; Dawson, 1954, 1959c
Southern Calif.

Grateloupia avalonae Dawson

Dawson, 1949
Catalina I., Calif.

- Grateloupia dactylifera* Dawson
Dawson, 1954
Near Guaymas; Isla Espiritu Santo, Gulf of Calif.
- Grateloupia filicina* (Lamour.) C. Agardh
Dawson, 1954
Northern Baja Calif. to San Blas, Nayarit; Gulf of Calif.
- Grateloupia hancockii* Dawson
Dawson, 1954
Kino; vicinity of Guaymas, Gulf of Calif.
- Grateloupia howeii* Setchell & Gardner
Dawson, 1954, 1959; Dawson, Neushul & Wildman, 1960
Islas San Benito to Isla Magdalena, Baja Calif.; Puerto Libertad, Sonora, to Mazatlán, Sinaloa
- Grateloupia* (?) *johnstonii* Setchell & Gardner
Dawson, 1954
Isla Ángel de la Guarda, Gulf of Calif.
- Grateloupia maxima* (Gardner) Kylin
Doty, 1947; Dawson, 1954; Dawson, Neushul & Wildman, 1960a
Capa Arago region, Oreg., to Isla Asunción, Baja Calif.
- Grateloupia multiphylla* Dawson
Dawson, 1954
Islas San Benito to Isla Magdalena, Baja Calif.
- Grateloupia pinnata* (Postels & Ruprecht) Setchell
Scagel, 1957
Sitka, Alaska, to northern Wash.
- Grateloupia prolongata* J. Agardh
Dawson, 1954, 1958, 1959, 1959c
Gaviota, Calif., to southern Mexico
- Grateloupia schizophylla* Kützing
Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960; Scagel, 1957 (as *G. californica*)
Southern British Columbia to Isla Magdalena, Baja Calif.
- Grateloupia setchellii* Kylin
Doty, 1947
Oreg.; Monterey, Calif.
- Grateloupia* (?) *squarrulosa* Setchell & Gardner
Dawson, 1944
Isla Smith, Gulf of Calif.
- Grateloupia versicolor* (J. Agardh) J. Agardh
var. *versicolor*
Dawson, 1954, 1954c, 1959
Isla Magdalena, Baja Calif., to Salina Cruz, Oaxaca; southern Gulf of Calif.
- Grateloupia versicolor* var. *prostrata* Dawson
Dawson, 1954c
Isla San Benedicto, Revillagigedo Arch.
- Grateloupia violacea* (Setchell & Gardner) Dawson
Dawson, 1961
Northern Gulf of Calif.
- Cryptonemia angustata* (Setchell & Gardner) Dawson
Dawson, 1954, 1958; Dawson, Neushul & Wildman, 1960; Dawson, 1960a
La Jolla, Calif., to southern Baja Calif.; Bahía Tepoca, Sonora; Isla Socorro, Revillagigedo Arch.; Bahía Culebra, Costa Rica
- Cryptonemia borealis* Kylin
Scagel, 1957
Southern British Columbia to Oreg.
- Cryptonemia decolorata* Taylor
Dawson, 1954
Isla María Magdalena, Nayarit
- Cryptonemia guaymasensis* (Dawson) Dawson
Dawson, 1954, 1960a
Isla Patos to Bahía San Lucas, Gulf of Calif.; Bahía Culebra, Costa Rica
- Cryptonemia obovata* J. Agardh
Kylin, 1925; Scagel, 1957; Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960, 1960a
Prince William Sound, Alaska, to Bahía Tortuga, Baja Calif.

- Cryptonemia ovalifolia* Kylin
Scagel, 1957
Northern Wash. to Pacific Grove, Calif.
- Cryptonemia peltata* Dawson, Neushul & Wildman
Dawson, Neushul & Wildman, 1960a
Punta Eugenio, Baja Calif.
- Cryptonemia veleroae* (Dawson) Dawson
Dawson, 1954
Guaymas, Sonora
- Aeodes* (?) *ecuadoreana* Taylor
Taylor, 1945
Galapagos Arch.
- Aeodes gardneri* Kylin
Scagel, 1957
Southern British Columbia to San Pedro, Calif.
- Carpopeltis bushiae* (Farlow) Kylin
Kylin, 1941; Dawson, 1954, 1959c (all as *Polyopes bushiae*); Dawson, 1959; Dawson, Neushul & Wildman, 1960; 1960a
Southern Calif. to Punta Abreojos, Baja Calif.
- Carpopeltis clarionensis* (Setchell & Gardner) Dawson
Dawson, 1954 (as *Polyopes clarionensis*); Dawson, 1959
Isla Clarión, Revillagigedo Arch.
- Carpopeltis divaricata* Okamura
Dawson, Neushul & Wildman, 1960a
Punta San Hipólito; Isla Magdalena, Baja Calif.
- Carpopeltis stella-polaris* Dawson
Dawson, 1959
Isla Ildefonso, Gulf of Calif.
- Pachymenia saxicola* Taylor
Taylor, 1945
Galapagos Arch.
- Halymenia abyssicola* Dawson
Dawson, 1954
Isla Partida, Gulf of Calif.
- Halymenia actinophysa* Howe
Dawson, 1954, 1960a
Throughout Gulf of Calif.; Revillagigedo Arch.; Bahía Salinas, Costa Rica
- Halymenia agardhii* G. DeToni
Dawson, 1954; Dawson, Neushul & Wildman, 1960a
Isla Asunción, Baja Calif.; Isla María Magdalena, Nayarit
- Halymenia bifida* Dawson
Dawson, 1954
Bahía de San Lucas, Baja Calif.
- Halymenia californica* Smith & Hollenberg
Dawson, 1954; Scagel, 1957
Northern Wash.; Monterey Peninsula, Calif.; Punta María, Baja Calif.
- Halymenia megaspora* Dawson
Dawson, 1954
Canal de San Lorenzo, Gulf of Calif.
- Halymenia santamariae* Taylor
Taylor, 1945
Galapagos Arch.
- Halymenia utriana* Taylor
Taylor, 1945
Bahía Utria, Colombia
- Prionitis abbreviata* Setchell & Gardner var. *abbreviata*
Taylor, 1945; Dawson, 1954 (as *Zanardinula abbreviata*), 1959
Throughout the Gulf of Calif.; Galapagos Arch.
- Prionitis abbreviata* var. *guaymasensis* (Dawson) Dawson
Dawson, 1954 (as *Zanardinula abbreviata* var. *guaymasensis*), 1959
Throughout the Gulf of Calif. south to Isla San Pedro Nolasco

- Prionitis acroidalea* (Setchell & Gardner) comb. nov.
Setchell & Gardner, 1924: 781 (as *Gratelou-
pia acroidalea*); Dawson, 1954 (as *Zanardinula acroidalea*)
Kina, Sonora, to La Paz, Baja Calif.; Galapa-
gos Arch.
- Prionitis albemarlensis* Taylor
Taylor, 1945
Galapagos Arch.
- Prionitis andersoniana* Eaton ex J. Agardh
Sanborn & Doty, 1946; Doty, 1947; Dawson,
1945*b*, 1954 (as *Zanardinula andersoni-
ana*), 1959*c*; Dawson, Neushul & Wild-
man, 1960
Coos Bay, Oreg., to Punta María, Baja Calif.
- Prionitis australis* (J. Agardh) J. Agardh
Smith, 1944; Papenfuss, 1944 (as *Zanardi-
nula australis*)
Monterey, Calif.
- Prionitis cornea* (Okamura) Dawson
Smith, 1944 (as *Prionitis linearis*); Dawson,
1954 (as *Zanardinula cornea*); Papenfuss,
1944 (as *Zanardinula linearis*); Dawson,
1958, 1959*c*; Dawson, Neushul & Wild-
man, 1960
San Mateo Co., Calif., to Isla San Roque, Baja
Calif.
- Prionitis delicatula* (Taylor) comb. nov.
Taylor, 1945: 210 (as *Prionitis filiformis* f.
delicatula); Dawson, 1954 (as *Zanardi-
nula delicatula*)
Central Pacific Baja Calif. south to Isla Mag-
dalena
- Prionitis filiformis* Kylin
Doty, 1947 (as *Zanardinula filiformis*); Daw-
son, Neushul & Wildman, 1960*a*
Cape Arago, Oreg., to central Calif.; Punta
Abrejos, Baja Calif.
- Prionitis galapagensis* Taylor
Taylor, 1945
Galapagos Arch.
- Prionitis hancockii* Taylor
Taylor, 1945
Galapagos Arch.
- Prionitis lanceolata* (Harvey) Harvey
Dawson, 1954 (as *Zanardinula lanceolata*);
Scagel, 1957; Dawson, 1959*c*; Dawson,
Neushul & Wildman, 1960
Southern British Columbia to Isla Cedros,
Baja Calif.
- Prionitis lyallii* Harvey
Scagel, 1957; Dawson, 1954 (as *Zanardinula
lyallii* var. ?)
Southern British Columbia to Carmel Bay,
Calif.; vicinity of Guaymas, Sonora ?
- Prionitis mexicana* Dawson
Dawson, 1954 (as *Zanardinula mexicana*)
Southern Baja Calif.
- Prionitis vizcainensis* (Dawson) Dawson, Neu-
shul & Wildman
Dawson, 1954 (as *Zanardinula vizcainensis*);
Dawson, Neushul & Wildman, 1960*a*
Bahía Vizcaino, Baja Calif.
- Lobocolax deformans* Howe
Doty, 1947; Dawson, 1954
Oreg. to central Baja Calif.

FAM. KALLYMENIACEAE

- Kallymenia latiloba* Taylor
Taylor, 1945
Galapagos Arch.
- Kallymenia multiloba* Taylor
Taylor, 1945
Galapagos Arch.
- Kallymenia oblongifruca* Setchell
Scagel, 1957
Sitka; Seldovia, Alaska, to Puget Sound,
Wash.
- Kallymenia ornata* (Postels & Ruprecht) J.
Agardh
Scagel, 1957
Yakutat Bay, Alaska, to Vancouver I., British
Columbia

Kallymenia pacifica Kylin

Kylin, 1956 (as *Callymenia*); Dawson, Neushul & Wildman, 1960a
La Jolla, Calif.; Punta Eugenio, Baja Calif.

Kallymenia (?) *pertusa* Setchell & Gardner

Dawson, 1954 (as *Callymenia*)
Isla San Pedro Mártir, Gulf of Calif.

Kallymenia reniformis (Turner) J. Agardh f. *reniformis*

Scagel, 1957
Southern British Columbia

Kallymenia reniformis f. *cuneata* J. Agardh

Setchell & Gardner, 1903
Unalaska; Morzhovoi Bay, Alaska

Kallymenia setchellii Taylor

Taylor, 1945
Galapagos Arch.

Pugetia fragilissima Kylin

Scagel, 1957
Southern British Columbia to Monterey, Calif.

Callophyllis acrocarpa Setchell

Dawson, 1954a
Santa Cruz to Santa Barbara, Calif.

Callophyllis crassifolia Setchell & Swezy

Dawson, 1954a
San Mateo Co. to Carmel, Calif.

Callophyllis crenulata Setchell

Scagel, 1957
Northern British Columbia to Pacific Grove, Calif.

Callophyllis dissecta Setchell & Swezy

Dawson, 1954
San Pedro, Calif., to Punta San Quintín, Baja Calif.

Callophyllis edentata Kylin

Scagel, 1957
Hope I., British Columbia, to Oreg.

Callophyllis flicina Setchell & Swezy

Dawson, 1954a
Southern Calif.; Islas San Benito, Baja Calif.

Callophyllis firma (Kylin) Norris

Scagel, 1957
Northern British Columbia to Monterey, Calif.

Callophyllis flabellulata Harvey

Scagel, 1957
Northern British Columbia to Coos Bay, Oreg.

Callophyllis gardneri Setchell

Dawson, 1954a
Santa Rosa I., Calif., to Bahía Vizcaino, Baja Calif.

Callophyllis beanophylla Setchell

Scagel, 1957
Southern British Columbia to Coos Bay, Oreg.

Callophyllis (?) *ligulata* Taylor

Taylor, 1945
Isla Gorgona, Colombia; Galapagos Arch.

Callophyllis marginifruca Setchell & Swezy

Scagel, 1957; Dawson, 1954; Dawson, Neushul & Wildman, 1960, 1960a
Northern Wash. to Sacramento Reef, Baja Calif.

Callophyllis megalocarpa Setchell & Swezy

Dawson, 1954; Scagel, 1957
Northern Wash. to Isla Magdalena, Baja Calif.

Callophyllis obtusifolia J. Agardh

Dawson, 1954, 1959c
Santa Cruz, Calif., to Punta Santa Rosalía, Baja Calif.

Callophyllis odonthaliooides Setchell

Dawson, 1954a
Santa Cruz to San Diego, Calif.

Callophyllis oregona Doty

Doty, 1947
North Bay and Brookings, Oreg.

Callophyllis phyllohaptera Dawson

Dawson, 1954
Punta Descanso to Isla Magdalena, Baja Calif.

Callophyllis pinnata Setchell & Swezy

Dawson, 1954a
Oreg. to Punta Baja, Baja Calif.

Callophyllis plumosa Setchell & Swezy

Dawson, 1954a, 1959c
San Pedro to La Jolla, Calif.

Callophyllis stenophylla Setchell

Dawson, 1949, 1954a
Bolinás; Santa Cruz I., Calif.

Callophyllis thompsonii Setchell

Scagel, 1957
Northern Wash.

Callophyllis violacea J. Agardh var. *violacea*

Doty, 1947; Dawson, 1954a, 1959c; Dawson,
Neushul & Wildman, 1960, 1960a
Oreg.; Santa Barbara, Calif., to Isla Asunción,
Baja Calif.

Callophyllis violacea var. *epiphytica* Dawson

Dawson, 1954, 1957
Central Baja Calif.; Rocas Alijos

Callocolax fungiformis Kylin

Scagel, 1957
Northern Wash.

Callocolax globulosis Dawson

Scagel, 1957
Northern Wash.; San Diego, Calif.

Erythrophyllum delesserioides J. Agardh

Scagel, 1957
Hope I., British Columbia, to San Luis Obispo
Co., Calif.

Erythrophyllum gmelini (Grunow) Yendo

Okamura, 1933; Setchell & Gardner, 1903 (as
Callymenia gmelini)
Atka to Agattu I., Aleutian Islands, Alaska

Erythrophyllum splendens Doty

Doty, 1947
Cape Arago, Oreg.

Euthora cristata (Linnaeus) J. Agardh

Setchell & Gardner, 1903
Shumagin I. to Cook Inlet, Alaska

Euthora fruticulosa (Ruprecht) J. Agardh

Okamura, 1933; Scagel, 1957
Bering Sea to northern Wash.

FAM. CHOREOCOLACEAE

Choreocolax polysiphoniae Reinsch

Dawson, 1954; Scagel, 1957
Sitka, Alaska, to Cabo Colnett, Baja Calif.

ORDER GIGARTINALES

FAM. CRUORACEAE

Cruoria pacifica Kjellman

Hollenberg, 1948
Southern Calif.

Cruoria profunda Dawson

Dawson, 1961
Cortez Bank, off U.S.-Mexico boundary

Haematocelis rubens J. Agardh

Dawson, 1954, 1961
La Jolla, Calif., to Isla Magdalena, Baja Calif.

Cruoriopsis mexicana Dawson

Dawson, 1954, 1957b, 1960a, 1961
Islas Coronados, Baja Calif.; San Felipe, Gulf
of Calif.; Golfo Dulce, Costa Rica

Petrocelis anastomosans Dawson

Dawson, 1961
Salina Cruz, Oaxaca

Petrocelis ascendens Dawson

Dawson, 1961
Bahía Rosario, Baja Calif.

Petrocelis franciscana Setchell & Gardner
Dawson, 1954, 1959c; Scagel, 1957; Dawson,
1961
Northern Wash. to Los Angeles Co., Calif.;
Cabo Colnett, Baja Calif.

Petrocelis haematis Hollenberg
Hollenberg, 1943
Southern Calif.

Petrocelis middendorffii (Ruprecht) Kjellman
Scagel, 1957
Bering Sea to Whidbey Is., Wash.

FAM. NEMASTOMACEAE

Schizymenia epiphytica (Setchell & Lawson)
Smith & Hollenberg
Smith, 1944; Papenfuss, 1944a
Monterey Peninsula, Calif.

Schizymenia pacifica (Kylin) Kylin
Scagel, 1957; Dawson, 1954, 1959c, 1961
Unga I., Alaska, to Isla Magdalena, Baja Calif.

Predaea masonii (Setchell & Gardner) J. De
Toni
Dawson, 1954; Feldmann, 1942; Dawson,
1961
Isla Guadalupe, Baja Calif.; Isla Clarión, Re-
villagigedo Arch.; southern Gulf of Calif.

Predaea subpeltata Dawson
Dawson, 1961
Puerto Guatulco, Oaxaca

Platoma fanii Dawson
Dawson, 1961
Isla San Esteban, Gulf of Calif.

FAM. SEBDENIACEAE

Sebdenia rubra Taylor
Taylor, 1945
Galapagos Arch.

FAM. SOLIERIACEAE

Turnerella mertensiana (Postels & Ruprecht)
Schmitz
Scagel, 1957
Shumagin I., Alaska, to northern Wash.

Euclidean uncinatum Setchell & Gardner
Dawson, 1961
Isla Ángel de la Guarda, Gulf of Calif., to
Mazatlán, Sinaloa

Agardhiella tenera (J. Agardh) Schmitz
Dawson, 1959c (as *A. coulteri*), 1961
Queen Charlotte Str., British Columbia, to
Revillagigedo Arch.; Northern Gulf of
Calif.; Galapagos Arch.

Gardneriella tuberifera Kylin
Hollenberg, 1948; Dawson, 1961
Monterey Peninsula, Calif., to Punta Baja,
Baja Calif.

Opuntiella californica (Farlow) Kylin
Scagel, 1957
Unga I., Alaska, to San Diego, Calif.

Reticulobotrys catalinae Dawson
Dawson, 1961
Santa Catalina I., Calif.; Isla Guadalupe, Baja
Calif.

Sarcodiotheca dichotoma (Howe) Dawson
Dawson, 1961
Puerto Refugio to La Paz, Gulf of Calif.

Sarcodiotheca divaricata Taylor
Taylor, 1945
Galapagos Arch.

Sarcodiotheca furcata (Setchell & Gardner)
Kylin
Scagel, 1957; Dawson, 1961
Southern British Columbia to Islas Tres
Marías Mexico; Puerto Culebra, Costa
Rica; Galapagos Arch.

Sarcodiotheca linearis Setchell & Gardner
Dawson, 1961
Isla Magdalena to San Lucas, Baja Calif.

Sarcodiotheca taylorii Dawson
Dawson, 1961
Punta Frailes, Baja Calif.; Islas Tres Marías

Sarcodiotheca tennis Taylor

Taylor, 1945; Dawson, 1961 (as probably equal to *S. divaricata*)
Galapagos Arch.

FAM. RHABDONIACEAE

Catenella repens (Lightfoot) Batters

Taylor, 1945
Galapagos Arch.; Esmeraldas, Ecuador

Catenella impudica (Montagne) J. Agardh

Taylor, 1945
Bahía Buenaventura, Colombia

FAM. RHODOPHYLLIDACEAE

Rhodophyllis dichotoma f. *setacea* Kjellman

Setchell & Gardner, 1903
Unalaska, Alaska

FAM. HYPNEACEAE

Hypneocolax stellaris f. *orientalis* Weber van Bosse

Dawson, 1961
Bahía Magdalena, Baja Calif.

Hypnea boergesenii Tanaka

Dawson, 1960a
Isla Brincanco, Panamá

Hypnea cervicornis J. Agardh

Taylor, 1945; Dawson, 1957, 1959, 1961
Isla Guadalupe, Scammon Lagoon, Bahía Santa María, Baja Calif.; San Felipe to Bahía San Lucas, Gulf of Calif.; Guayas, Ecuador; Galapagos Arch.

Hypnea johnstonii Setchell & Gardner

Dawson, 1958, 1961
Newport Harbor, Calif.; southern Baja Calif.; Gulf of Calif.; Isla San Benedicto; Revillagigedo Arch.; to San Blas, Nayarit

Hypnea marchantae Setchell & Gardner

Taylor, 1945
Isla Gorgona, Colombia; La Libertad, Ecuador

Hypnea pannosa J. Agardh

Dawson, 1954c, 1957b, 1961
Isla Pond, Gulf of Calif., to Islas Secas, Panamá; Galapagos Arch.

Hypnea spicifera (Suhr) Harvey ?

Dawson, 1961
Mazatlán, Sinaloa

Hypnea spinella (C. Agardh) Kützting

Dawson, 1959b, 1961
Guaymas, Sonora, to Bahía Petatlán, Guerrero; Clipperton I.

Hypnea valentiae (Turner) Montagne

Dawson, 1961
Santa Barbara, Calif., to Guayas, Ecuador

Hypnea variabilis Okamura

Dawson, 1961
Catalina I.; La Jolla, Calif., to Isla San Roque, Baja Calif.

FAM. PLOCAMIACEAE

Plocamium coccineum (Hudson) Lyngbye var. *coccineum*

Farlow, 1902
Galapagos Arch.

Plocamium coccineum var. *pacificum* (Kyllin) Dawson

Dawson, 1957, 1959c; Scagel, 1957; Dawson, Neushul & Wildman, 1960, 1960a (all as *P. pacificum*); Dawson, 1961
Southern British Columbia to Rocas Alijos and Revillagigedo Arch.

Plocamium oreganum Doty

Scagel, 1957
Southern British Columbia to Sonoma Co., Calif.

Plocamium tenue Kyllin

Scagel, 1957; Doty, 1947
Sitka, Alaska, to South Bay, Oreg.

Plocamium violaceum Farlow

Scagel, 1957; Dawson, 1959c, 1961
Southern British Columbia to Islas San Benito, Baja Calif.

Plocamiocolax pulvinata Setchell

Scagel, 1957; Dawson, 1961
Northern Wash. to Cabo Colnett, Baja Calif.;
Isla Guadalupe

FAM. SPHAEROCOCCACEAE

Caulacanthus indicus Weber van Bosse

Dawson, 1957b
Golfo Dulce, Costa Rica ?

Caulacanthus ustulatus Kützing

Dawson, 1961
Isla Cedros to Isla Margarita, Baja Calif.; Isla
Turner, Gulf of Calif.

Taylorophycus laxa (Taylor) Dawson

Dawson, 1961
Isla Magdalena, Baja Calif.

FAM. GRACILARIACEAE

Gelidiopsis tenuis Setchell & Gardner

Dawson, 1954, 1957b, 1959, 1961
Guaymas, Sonora, to Costa Rica; Revillagigedo Arch.

Gelidiopsis variabilis (Greville) Schmitz

Dawson, 1954, 1959, 1960a, 1961
Guaymas, Sonora, to Bahía Santiago, Colima

Gracilaria ascidiicola Dawson

Dawson, 1961
Puerto Escondido, Gulf of Calif.

Gracilaria brevis Taylor

Taylor, 1945
Guayas, Ecuador

Gracilaria cerrosiana Taylor

Dawson, 1961
Isla Cedros to Punta Abreojos, Baja Calif.

Gracilaria crispata Setchell & Gardner

Dawson, 1957b, 1961
Isla Tiburón, Sonora, to Costa Rica; Revillagigedo Arch.

Gracilaria ecuadoreanas (Taylor) Dawson

Dawson, 1949b
Galapagos Arch.

Gracilaria (?) *linearis* Kylin

Smith, 1944; Dawson, 1949b (as not of the
genus *Gracilaria*)
Monterey Peninsula; Point Sur, Calif.

Gracilaria marcialana Dawson

Dawson, 1961
Bahía Agua Verde; Isla Espíritu Santo, Gulf
of Calif.

Gracilaria pachydermatica Setchell & Gardner

Dawson, 1961
Isla Cedros to Isla Magdalena, Baja Calif.;
throughout the Gulf of Calif.

Gracilaria ramisecunda Dawson

Dawson, 1961
Southern Gulf of Calif.

Gracilaria rubrimembra Dawson

Dawson, 1961
Vicinity of Guaymas, Sonora

Gracilaria rugulosa Montagne ?

Farlow, 1902
Galapagos Arch.

Gracilaria skottsbergii Taylor

Dawson, 1949b
Galapagos Arch.

Gracilaria spinigera Dawson

Dawson, 1961
Guaymas to Puerto Escondido, Gulf of Calif.;
Isla Margarita, Baja Calif.

Gracilaria subsecundata Setchell & Gardner

Dawson, 1961
Throughout the Gulf of Calif. to Bahía Topolobampo, Sinaloa

Gracilaria symmetrica Dawson

Dawson, 1961
Bahía Chamela, Jalisco; Bahía Chacahua,
Oaxaca; Bahía Santa Elena, Costa Rica

Gracilaria tepocensis (Dawson) Dawson

Dawson, 1961
Northern Gulf of Calif.; Costa Rica

Gracilaria textorii (Suringar) J. Agardh var. *textorii*

Dawson, 1961
Vicinity of Punta Eugenio; Punta Pequeña,
Baja Calif.; Gulf of Calif.; Galapagos Arch.

Gracilaria textorii var. *cunninghamii* (Farlow) Dawson

Dawson, 1961; Dawson, Neushul, & Wild-
man, 1960 (as *G. cunninghamii*)
Santa Barbara, Calif., to Isla Magdalena, Baja
Calif.

Gracilaria turgida Dawson

Dawson, 1961
Newport Harbor, Calif.; Bahía Magdalena,
Baja Calif.

Gracilaria veleroae Dawson

Dawson, 1961
San Diego Co., Calif; northern Gulf of Calif.
to Acapulco, Guerrero; Revillagigedo Arch.

Gracilaria verrucosa (Hudson) Papenfuss

Taylor, 1945 (as *G. confervoides* in part);
Scagel, 1957; Dawson, 1961
Southern British Columbia to central Gulf
of Calif.; Guayas, Ecuador ?

Gracilariopsis andersonii (Grunow) Dawson

Dawson, 1961; Kylin, 1941 (as *Gracilaria
andersonii*)
Santa Barbara Co., Calif., to Punta María,
Baja Calif.

Gracilariopsis claviformis Dawson

Dawson, 1961a
Near Santa Cruz I., Calif.

Gracilariopsis costaricensis Dawson

Dawson, 1957b, 1961
Bahía Tenacatita, Jalisco; Costa Rica

Gracilariopsis megaspora Dawson

Dawson, 1961
Bahía San Carlos, Sonora

Gracilariopsis panamensis (Taylor) Dawson

Dawson, 1949b
Puerto Culebra, Costa Rica; Isla Taboga, Pa-
nama; Galapagos Arch.

Gracilariopsis rhodotricha Dawson

Dawson, 1961
Revillagigedo Arch.

Gracilariopsis robusta (Setchell) Dawson

Dawson, 1949b
Monterey Peninsula, Calif.

Gracilariopsis sjoestedtii (Kylin) Dawson

Scagel, 1957; Dawson & Beaudette, 1960;
Dawson, 1961
Vancouver I., British Columbia, to Bahía
Salinas, Costa Rica

Gracilariophila gardneri Setchell

Dawson, 1945c, 1961
Santa Monica to La Jolla, Calif.; Bahía Boco-
chibampo, Sonora

Gracilariophila oryzoides Setchell & Wilson

Doty, 1947; Dawson, 1961
Coos Bay, Oreg., to Bahía Rosario, Baja Calif.

FAM. DICRANEMACEAE

Dicranema rosaliae Setchell & Gardner

Dawson, 1961
Throughout the Gulf of Calif. to Puerto Par-
ker, Costa Rica

FAM. PHYLLOPHORACEAE

Phyllophora californica (J. Agardh) Kylin

Dawson, 1959c, 1961
San Francisco; Santa Barbara, Calif., to Punta
San Hipólito, Baja Calif.

Phyllophora clevelandii Farlow

Dawson, 1961
Bolínas, Calif., to Socorro, Baja Calif.

- Phyllophora submaritimus* Dawson
Dawson, 1961
Cortes Bank, Calif.; Bahía Tortuga, Baja Calif.
- Petroglossum pacificum* Hollenberg
Hollenberg, 1943, 1945; Doty, 1947; Kylin, 1956 (as *Phyllophora pacificum*)
Coos Bay, Oreg., to La Jolla, Calif.
- Petroglossum parvum* Hollenberg
Dawson, 1959c, 1961
Laguna Beach, Calif., to Isla Cedros, Baja Calif.
- Abnfeltia concinna* J. Agardh
Dawson 1954c, 1961; Scagel, 1957
Southern British Columbia to Oaxaca, Mexico; Isla San Benedicto, Revillagigedo Arch.
- Abnfeltia durvillaei* (Bory) J. Agardh var. *durvillaei*
Taylor, 1945
Galapagos Arch.
- Abnfeltia durvillaei* var. *implicata* (Kützing) Howe
Taylor, 1945
Galapagos Arch.
- Abnfeltia plicata* (Hudson) Fries
Okamura, 1933; Scagel, 1957; Dawson, 1959c, 1961
Bering Sea to Punta Baja, Baja Calif.
- Abnfeltia svensonii* Taylor
Dawson, 1961
Southern Gulf of Calif.; Galapagos Arch.
- Gymnogongrus* ? *carnosus* Setchell & Gardner
Dawson, 1961
Isla San Pedro Mártir, Gulf of Calif.
- Gymnogongrus crustiforme* Dawson
Dawson, 1961
Salina Cruz, Oaxaca
- Gymnogongrus griffithsiae* var. *galapagensis* Piccone & Grunow
Taylor, 1945
Galapagos Arch.
- Gymnogongrus guadalupensis* Dawson
Dawson, 1961
Isla Guadalupe; near Cabo San Lucas, Baja Calif.
- Gymnogongrus johnstonii* (Setchell & Gardner) Dawson
Dawson, 1961
Gulf of Calif. to Salina Cruz, Oaxaca; Bahía Salinas, Costa Rica; Revillagigedo Arch.
- Gymnogongrus leptophyllus* J. Agardh
Doty, 1947; Dawson, 1959c, 1961; Dawson, Neushul & Wildman, 1960
Oreg. to Punta Baja, Baja Calif.
- Gymnogongrus linearis* (Turner) J. Agardh
Doty, 1947
Cape Perpetua, Oreg., to San Luis Obispo Co., Calif.
- Gymnogongrus martinensis* Setchell & Gardner
Dawson, 1961
Isla San Martin to Isla Magdalena, Baja Calif.
- Gymnogongrus melanotrix* Grunow
Taylor, 1945
Galapagos Arch.
- Gymnogongrus norvegicus* (Gunner) J. Agardh
Scagel, 1957
Southern British Columbia to northern Wash.
- Gymnogongrus platyphyllus* Gardner
Scagel, 1957; Dawson, 1959c, 1961
Southern British Columbia to Punta Santa Rosalía, Baja Calif.
- Gymnogongrus serenei* Dawson
Dawson, 1961
Cabo San Lucas, Baja Calif.; Isla San Benedicto, Revillagigedo Arch.

Gymnogongrus smithii Taylor

Taylor, 1945
Galapagos Arch.

Gymnogongrus vermicularis J. Agardh

Taylor, 1945
Galapagos Arch.

Stenogramme interrupta (C. Agardh) Montagne

Dawson, 1959c, 1961; Scagel, 1957 (as *S. californica*); Kylin, 1956 (as *S. californica*); Dawson, Neushul & Wildman, 1960 Southern British Columbia to Cabo San Lucas, Baja Calif.; Revillagigedo Arch.; Galapagos Arch.

FAM. GIGARTINACEAE

Chondrus (?) *albemarlensis* Taylor

Taylor, 1945
Galapagos Arch.

Chondrus canaliculatus Greville

Farlow, 1902
Galapagos Arch.

Chondrus crispus (Linnaeus) Lyngbye

Setchell & Gardner, 1903
Bering Sea to Unalaska, Alaska

Chondrus (?) *hancockii* Taylor

Taylor, 1945
Galapagos Arch.

Gigartina agardhii Setchell & Gardner

Smith, 1944
Fort Ross to La Jolla ?, Calif.

Gigartina armata J. Agardh var. *armata*

Dawson, 1951a, 1961
Southern Calif. to Isla San Martín, Baja Calif. ?

Gigartina armata var. *echinata* (Gardner) Dawson

Dawson, 1961
Santa Catalina I.; La Jolla, Calif.; Isla Guadalupe, Baja Calif.

Gigartina asperifolia J. Agardh

Setchell & Gardner, 1933; Dawson, 1958, 1959c, 1961
Santa Barbara, Calif., to Punta Santa Rosalia, Baja Calif.

Gigartina californica J. Agardh

Smith, 1944; Sanborn & Doty, 1946; Doty, 1947; Dawson, 1959c, 1961
Coos Bay, Oreg., to near Punta María, Baja Calif.

Gigartina canaliculata Harvey

Doty, 1947; Dawson, 1959c, 1961; Dawson, Neushul & Wildman, 1960
Coos Bay, Oreg., to Isla Magdalena, Baja Calif.

Gigartina chauvinii (Bory) Montagne

Taylor, 1945
Galapagos Arch.

Gigartina corymbifera (Kützinger) J. Agardh

Scagel, 1957 (in part as *G. binghamii*); Dawson, 1961
Northern Wash. to San Quintin, Baja Calif.

Gigartina dichotoma Gardner

Setchell & Gardner, 1933
Duxbury Reef to Point Sur, Calif.

Gigartina exasperata Harvey & Bailey

Scagel, 1957
Southern British Columbia to northern Calif.

Gigartina harveyana (Kützinger) Setchell & Gardner

Doty, 1947; Dawson, 1959c, 1961
Oreg. to near Punta María, Baja Calif.

Gigartina intermedia Suringar

Dawson, 1961
Isla Tortuga, Gulf of Calif.; Mazatlan, Sinaloa

Gigartina jardinii J. Agardh

Setchell & Gardner, 1933
Monterey; Santa Barbara, Calif.

Gigartina johnstonii Dawson

Dawson, 1961
Northern Gulf of Calif. south to Guaymas

- Gigartina latissima* (Harvey) Eaton
Scagel, 1957
Table I., British Columbia, to northern Wash.
- Gigartina leptorhynchos* J. Agardh f. *leptorhynchos*
Dawson, 1959c, 1961
Santa Cruz, Calif., to Isla Cedros, Baja Calif.
- Gigartina leptorhynchos* f. *latissima* Dawson
Dawson, 1949, 1961
Point Arguello, Calif.; Isla San Martín, Baja Calif.
- Gigartina leptorhynchos* f. *cylindrica* Dawson
Dawson, 1949, 1954, 1961
Southern Calif. and northern Baja Calif.
- Gigartina lessonii* J. Agardh
Farlow, 1902
Galapagos Arch.
- Gigartina macdougalii* Dawson
Dawson, 1961
Northern Gulf of Calif. south to Isla Tiburón
- Gigartina mamillosa* (Goodenough & Woodward) J. Agardh
Scagel, 1957
Southern British Columbia to Seal Rocks, Oreg.
- Gigartina multidichotoma* Dawson
Dawson, 1961
Santa Catalina I.; La Jolla, Calif.; Punta Descanso, Baja Calif.
- Gigartina papillata* (C. Agardh) J. Agardh f. *papillata*
Scagel, 1957 (in part as *G. cristata*); Dawson, 1959c, 1961; Hollenberg, 1948
Northern Wash. to Punta Baja, Baja Calif.
- Gigartina papillata* f. *cristata* Setchell
Scagel, 1957; Dawson, 1959c (both as *G. cristata*), Dawson, 1961
Northern Wash. to Bahía Rosario, Baja Calif.
- Gigartina pectinata* Dawson
Dawson, 1961
Northern Gulf of Calif.
- Gigartina serrata* Gardner
Setchell & Gardner, 1933; Dawson, 1959c, 1961
Balboa, Calif., to Isla Magdalena, Baja Calif.
- Gigartina sitchensis* Ruprecht
Scagel, 1957
Sitka, Alaska, to Whidbey I., Wash.
- Gigartina spinosa* (Kützing) Harvey
Coe, 1932; Smith, 1944; Dawson, 1959c, 1961
Monterey, Calif., to Punta Baja, Baja Calif.
- Gigartina stellata* (Stackhouse) Batters
Scagel, 1957
West Coast of Vancouver I., British Columbia
- Gigartina tepida* Hollenberg
Dawson, 1959, 1961
Balboa Harbor, Calif.; Bahía San Quintín, Baja Calif.; northern Gulf of Calif. south to Topolobampo, Sinaloa
- Gigartina turneri* Setchell & Gardner
Setchell & Gardner, 1933; Dawson, 1945b
Southern Calif.
- Gigartina unalaschensis* (Ruprecht) Ruprecht
Scagel, 1957
Bering Sea to northern Wash.
- Gigartina volans* (C. Agardh) J. Agardh
Doty, 1947; Dawson, 1959c, 1961; Dawson, Neushul & Wildman, 1960
Coos Bay, Oreg., to near Punta María, Baja Calif.
- Rhodoglossum affine* (Harvey) Kylin
Scagel, 1957; Dawson, 1959c, 1961
Southern British Columbia to Isla San Roque, Baja Calif.
- Rhodoglossum americanum* Kylin
Smith, 1944; Dawson, 1945b, 1958, 1959c, 1961
Bolínas, Calif., to near Punta María, Baja Calif.

- Rhodoglossum cobinae* Dawson
Dawson, 1961
Punta María to Isla Magdalena, Baja Calif.
- Rhodoglossum coriaceum* Dawson
Dawson, 1958, 1959c, 1961
Santa Cruz I.; Ventura, Calif., to near Punta
María, Baja Calif.
- Rhodoglossum diffusum* Dawson
Dawson, 1961
Isla Ángel de la Guarda, Gulf of Calif.
- Rhodoglossum digitatum* Dawson
Dawson, 1961
Isla Partida; Isla Rasa, Gulf of Calif.
- Rhodoglossum hancockii* Dawson
Dawson, 1961
Northern Gulf of Calif.
- Rhodoglossum latissimum* J. Agardh
Scagel, 1957
Northern British Columbia to northern Wash.
- Rhodoglossum linguiforme* Dawson
Dawson, 1961
Arroyo Hondo, southern Calif., to Punta
Cono (?), Baja Calif.
- Rhodoglossum parvum* Smith & Hollenberg
Smith, 1944; Hollenberg, 1948
Monterey; southern Calif.
- Rhodoglossum roseum* (Kylin) G. M. Smith
Smith, 1944; Dawson, 1959c, 1961
Monterey Peninsula, Calif.; Punta Descanso
to Punta Baja, Baja Calif.
- Iridaea agardbiana* (Setchell & Gardner) Kylin
Smith, 1944; Sanborn & Doty, 1946; Doty,
1947 (all as *Iridophycus flaccidum*); Ky-
lin, 1941; Dawson, 1959c (as *Iridaea flac-
cidum*)
Cape Arago, Oreg., to Government Point,
Calif.
- Iridaea californica* J. Agardh
Kylin, 1941
Santa Barbara, Calif.
- Iridaea cordata* (Turner) Bory
Scagel, 1957
Banks I., British Columbia to Oreg.
- Iridaea coriaceum* (Setchell & Gardner) Scagel
Scagel, 1957
Northern Wash. to Carmel, Calif.
- Iridaea fulgens* (Setchell & Gardner) Papenfuss
Setchell & Gardner, 1937; Doty, 1947 (both
as *Iridophycus fulgens*); Papenfuss, 1958
Cape Arago, Oreg.; Trinidad, Humbolt Co.,
Calif.
- Iridaea furcata* (Setchell & Gardner) Papenfuss
Papenfuss, 1958
Sitka, Alaska
- Iridaea heterocarpa* Postels & Ruprecht
Scagel, 1957; Dawson, 1959c
Northern British Columbia to Government
Point, Calif.
- Iridaea lineare* (Setchell & Gardner) Kylin
Smith, 1944; Doty, 1947 (both as *Iridophy-
cus lineare*); Kylin, 1941; Dawson, 1959c
Cape Mears, Oreg., to Ventura, Calif.
- Iridaea oregana* (Doty) Papenfuss
Papenfuss, 1958
Brookings, Oreg.
- Iridaea parksii* (Setchell & Gardner) Papenfuss
Papenfuss, 1958
Trinidad, Calif.
- Iridaea parvula* (Kjellman) Papenfuss
Okamura, 1933 (as *Iridaea laminarioides* var.
parvula); Papenfuss, 1958
Aleutian Islands to Kodiak I., Alaska
- Iridaea reediae* (Setchell & Gardner) Papenfuss
Dawson, 1958, 1959c; Papenfuss, 1958
Bushnell's Beach, San Luis Obispo Co., and
Solromar, Ventura Co., Calif.
- Iridophycus sanguineum* Setchell & Gardner
Kylin, 1941; Dawson, 1945c (both as prob-
ably identical with *Iridaea californica*);
Doty, 1947
Cape Arago, Oreg., to Pacific Grove, Calif.

- Iridaea sinicola* (Setchell & Gardner) Papenfuss
Papenfuss, 1958
San Francisco Bay, Calif.
- Iridaea splendens* (Setchell & Gardner) Papenfuss
Doty, 1947 (as *Iridophycus splendens*); Papenfuss, 1958; Dawson, 1958, 1959c
Cape Kiawandi, Oreg.; Monterey Peninsula and Government Point, Calif.
- Iridaea whidbeyanum* (Setchell & Gardner) Scagel
Scagel, 1957
Southern British Columbia to Oreg.
- Besa papillaeformis* Setchell
Smith, 1944
Lands End, San Francisco; Monterey, Calif.
- ORDER RHODYMENIALES
FAM. RHODYMENIACEAE
- Fauchea* (?) *crispa* Taylor
Dawson, 1954
Isla María Magdalena, Nayarit
- Fauchea fryeana* Setchell
Scagel, 1957
Southern British Columbia to northern Wash.
- Fauchea galapagensis* Taylor f. *galapagensis*
Taylor, 1945
Galapagos Arch.
- Fauchea galapagensis* f. *pygmaea* Taylor
Taylor, 1945
Galapagos Arch.
- Fauchea laciniata* J. Agardh var. *laciniata*
Dawson, 1954; Scagel, 1957; Sparling, 1957; Dawson, Neushul & Wildman 1960, 1960a; Hollenberg, 1948 (as *F. media*)
Southern British Columbia to Isla Asunción, Baja Calif.
- Fauchea laciniata* f. *pygmaea* Setchell & Gardner
Kylin, 1941; Dawson, 1949a (both as *F. pygmaea*); Dawson, 1954; Dawson, Neushul & Wildman, 1960a; Sparling, 1957 (as *F. laciniata*)
Throughout the southern part of the range of the species
- Fauchea mollis* Howe
Dawson, 1954
La Paz, Baja Calif.
- Fauchea rhizophylla* Taylor
Taylor, 1945
Galapagos Arch.
- Fauchea sefferi* Howe
Dawson, 1954
La Paz, Baja Calif.
- Faucheocolax attenuata* Setchell
Scagel, 1957; Sparling, 1957
Northern Wash. to Monterey Peninsula, Calif.
- Gloioderma conjuncta* (Setchell & Gardner) Dawson
Dawson, 1954 (as *Estebania conjuncta*); Dawson, 1959
Northern Gulf of Calif. south to Isla Tortuga
- Sciadophyicus stellatus* Dawson
Dawson, 1954; Dawson, Neushul & Wildman, 1960
Southern Calif. to southern Baja Calif.
- Leptofauchea pacifica* Dawson
Dawson, 1954
Isla Cedros, Baja Calif.
- Fryella gardneri* (Setchell) Kylin
Scagel, 1957
Southern British Columbia to Oreg.
- Botryocladia beaudettei* Dawson
Dawson, 1960a
Bahía Potrero Grande, Costa Rica
- Botryocladia chiajeana* (Meneghini) Kylin ?
Dawson, 1957 Dawson, Neushul & Wildman, 1960a
Near Punta Eugenio; Rocas Alijos, Baja Calif.

- Botryocladia hancockii* Dawson
Dawson, 1954
Bahía Agua Verde, Gulf of Calif.
- Botryocladia neushulii* Dawson
Dawson 1958; Dawson, Neushul & Wildman, 1960
Goleta, Calif., to Bahía San Quintín, Baja Calif.
- Botryocladia pseudodichotoma* (Farlow) Kylin
var. *pseudodichotoma*
Scagel, 1957; Dawson, 1954; Dawson, Neushul & Wildman, 1960, 1960a
Vancouver I., British Columbia, to Isla María Magdalena, Nayarit; Isla Socorro, Revillagigedo Arch.; Galapagos Arch.
- Botryocladia pseudodichotoma* var. *datilensis* Dawson
Dawson, 1954
Isla Tiburón; near Guaymas, Gulf of Calif.
- Botryocladia tenuissima* Taylor
Taylor, 1945
Galapagos Arch.
- Botryocladia uvarioides* Dawson
Dawson, 1954, 1959
Southern Gulf of Calif.
- Halosaccion glandiforme* (Gmelin) Ruprecht
Scagel, 1957
Westernmost Aleutian Islands, Alaska, to Monterey Peninsula, Calif.
- Halosaccion ramentaceum* (Linnaeus) J. Agardh
Setchell & Gardner, 1903
Sannak I. to Cook Inlet, Alaska
- Halosaccion tilesii* Kjellman
Setchell & Gardner, 1903
Kukak Bay to Wrangel, Alaska
- Drouetia coalescens* (Farlow) G. De Toni
G. De Toni, 1938; Taylor, 1945 (as *Herpophyllon coalescens*); Dawson, 1949
Galapagos Arch.
- Drouetia rotata* Dawson
Dawson, 1949; Dawson, Neushul & Wildman, 1960 (partly as *D. peltata* by error), 1960a
Southern Calif. Channel Islands to Baja Calif.
- Rbodymenia arborescens* Dawson
Dawson, 1954; Dawson, Neushul & Wildman, 1960, 1960a
Southern Calif. to Isla Magdalena, Baja Calif.
- Rbodymenia attenuata* Dawson
Smith, 1944; Dawson, Neushul & Wildman, 1960, 1960a
Monterey, Calif., to Isla Asunción, Baja Calif.
- Rbodymenia californica* Kylin
Taylor, 1945; Dawson, 1954, 1949a, 1951a, 1959, 1959c; Scagel, 1957; Sparling, 1957; Dawson, Neushul & Wildman, 1960
Southern British Columbia to Isla Magdalena, Baja Calif.; Isla Carmén, Gulf of Calif.; Galapagos Arch.
- Rbodymenia dawsonii* Taylor
Dawson, 1954; Dawson, Neushul & Wildman, 1960a
Bahía Tortuga, Isla Magdalena, Baja Calif.
- Rbodymenia decumbens* Taylor
Taylor, 1945
Galapagos Arch.
- Rbodymenia divaricata* Dawson
Taylor, 1945; Dawson, 1954
Northern Gulf of Calif.; Galapagos Arch.
- Rbodymenia flabellifolia* Bory
Taylor, 1945; Dawson, 1941
Galapagos Arch.
- Rbodymenia hancockii* Dawson
Dawson, 1954, 1959
Isla Ángel de la Guarda; Bahía Agua Verde, Gulf of Calif.
- Rbodymenia lobata* Dawson
Smith, 1954; Dawson, 1954
Monterey, Calif.; near Isla Isabel, Nayarit

Rhodymenia lobulifera Dawson

Smith, 1944; Dawson, 1959c
Bolinás to San Pedro, Calif.

Rhodymenia pacifica Kylin

Scagel, 1957; Sparling, 1957; Dawson, 1959c;
Dawson, Neushul & Wildman, 1960, 1960a
Northern British Columbia to Punta Cabras,
Baja Calif.

Rhodymenia palmata (Linnaeus) Greville f.
palmata

Okamura, 1933; Scagel, 1957
Aleutian Islands, Alaska, to northern Wash.

Rhodymenia palmata f. *mollis* Setchell & Gardner

Scagel, 1957
Agattu I., Alaska, to Pacific Grove, Calif.

Rhodymenia palmata f. *sarniensis* (Mertens) J.
Agardh

Setchell & Gardner, 1903
Kodiak Is. to Orca, Alaska

Rhodymenia palmetta (Esper) Greville

Taylor, 1945
Galapagos Arch.

Rhodymenia palmettiformis Dawson

Dawson, 1945, 1954, 1959c; Dawson, Neu-
shul & Wildman, 1960
La Jolla, Calif., to Punta Baja, Baja Calif.

Rhodymenia pertusa (Postels & Ruprecht) J.
Agardh

Scagel, 1957; Sparling, 1957
Alaska to Coos Bay, Oreg.

Rhodymenia rhizoides Dawson

Dawson, 1941, 1945, 1959c
Lechuza Point to San Diego, Calif.

Rhodymenia rosea Dawson

Dawson, 1954
Isla Ángel de la Guarda, Gulf of Calif.

Rhodymenia stipitata Kylin

Scagel, 1957
British Columbia; Puget Sound, Wash.

Rhodymeniocolax botryoidea Setchell

Scagel, 1957; Sparling, 1957
Northern Wash. to San Diego, Calif.

FAM. LOMENTARIACEAE

Binghamia californica J. Agardh

Silva, 1952
Santa Barbara to Santa Monica, Calif.

Binghamia forkii (Dawson) Silva

Dawson, 1945; Hollenberg, 1948 (both as
Binghamiella); Dawson, 1954, 1957 (as
Binghamiella by error); Dawson, Neushul
& Wildman, 1960, 1960a
Laguna Beach, Calif., to Isla Asunción; Rocas
Alijos, Baja Calif.

Lomentaria baileyana (Harvey) Farlow

Dawson, 1954
Bahía Vizcaino, Baja Calif.; Revillagigedo
Arch.; Puerto Culebra, Costa Rica

Lomentaria caseae Dawson

Dawson, 1946
Del Mar, Calif.

Lomentaria catenata Harvey

Dawson, 1954
Punta Santa Rosalía; Isla Magdalena, Baja
Calif.; northern Gulf of Calif.

Lomentaria hakodatensis Yendo

Dawson, 1954, 1960a; Dawson, Neushul &
Wildman, 1960a
Isla Guadalupe; Islas San Benito; Laguna de
San Ignacio, Baja Calif.; northern Gulf of
Calif. to Puerto Culebra, Costa Rica

Champia parvula (C. Agardh) Harvey

Taylor, 1945; Dawson, 1954, 1954c, 1957b;
1959
Revillagigedo Arch.; Gulf of Calif. to Golfo
de Nicoya, Costa Rica; Esmeraldas, Ecua-
dor

Gastroclonium coulteri (Harvey) Kylin

Scagel, 1957; Dawson, 1954, 1958c; Dawson, Neushul & Wildman, 1960
Nootka Sound, British Columbia, to Bahía Asunción, Baja Calif.

Coeloseira compressa Hollenberg

Dawson, 1954; Dawson, Neushul & Wildman, 1960a
Pacific Grove, Calif., to Isla Asunción, Baja Calif.

Coeloseira pacifica Dawson

Dawson, 1954
Northern Gulf of Calif. south to Guaymas

Coeloseira parva Hollenberg

Dawson, 1954
Redondo, Calif., to Punta Santa Rosalía, Baja Calif.

ORDER CERAMIALES

FAM. CERAMIACEAE

Crouania attenuata (Bonnemaison) J. Agardh

Dawson, 1954, 1957
Isla Guadalupe; Bahía Vizcaino; Rocas Alijos, Baja Calif.

Lejolisia colombiana Taylor

Taylor, 1945
Isla Gorgona, Colombia

Gymnothamnium elegans (Schousboe) J. Agardh

Hollenberg, 1948; Dawson, 1954; Taylor, 1945
Southern Calif.; Isla Clarión, Revillagigedo Arch.; Galapagos Arch.

Antithamnium alternans Gardner

Gardner, 1927b
Cook Inlet, Alaska

Antithamnium asymmetricum Gardner

Gardner, 1927c
Sitka, Alaska

Antithamnium baylesiae Gardner

Doty, 1947
South Slough, near Charleston, Oreg.; Monterey Peninsula, Calif.

Antithamnium breviramosus Dawson

Dawson, 1954, 1957, 1957b, 1959, 1960a
Santa Catalina I., Calif., to Isla del Rey, Panama; southern Gulf of Calif.

Antithamnium defectum Kylin

Scagel, 1957
Northern British Columbia to Monterey, Calif.

Antithamnium dendroideum Smith & Hollenberg

Smith, 1944
Monterey, Calif.

Antithamnium densiusculum Gardner

Scagel, 1957
Southern British Columbia to Pacific Grove, Calif.

Antithamnium dumontii Dawson

Dawson, 1960a
Isla del Caño, Costa Rica, to Isla Jicarón, Panama

Antithamnium floccosum (Müller) Kleen

Scagel, 1957
Southern British Columbia to northern Wash.

Antithamnium gardneri G. De Toni

G. De Toni, 1935; Doty, 1947 (as *A. tenuissimum*)
Coos Bay, Oreg.; La Jolla, Calif.

Antithamnium glanduliferum Kylin

Scagel, 1957; Dawson, 1954d; Dawson, Neushul & Wildman, 1960a
Southern British Columbia to Isla Asunción, Baja Calif.

Antithamnium kyllinii Gardner

Scagel, 1957; Dawson, 1954
Victoria, British Columbia, to Punta San Hipólito, Baja Calif.

- Antithamnion mcnabbii* Dawson
Dawson, 1959
Bahía Agua Verde, Gulf of Calif.
- Antithamnion nigricans* Gardner
Scagel, 1957
Vancouver I., British Columbia
- Antithamnion occidentale* Kylin
Taylor, 1945; Scagel, 1957
Alaska to La Jolla, Calif.; Galapagos Arch.
- Antithamnion pacificum* (Harvey) Kylin
Dawson, 1954; Scagel, 1957
Yakutat Bay, Alaska, to La Jolla, Calif.; northern Gulf of Calif.
- Antithamnion pulchellum* Gardner
Gardner, 1927c
Santa Monica, Calif.
- Antithamnion pygmaeum* Gardner
Doty, 1947; Dawson, 1949; Dawson, Neushul & Wildman, 1960a
Oreg. to Punta Eugenio, Baja Calif.
- Antithamnion secundatum* Gardner
Gardner, 1927c
San Diego, Calif.
- Antithamnion setaceum* Gardner
Gardner, 1927c
San Diego, Calif.
- Antithamnion simulans* Gardner
Gardner, 1927b
Sitka, Alaska
- Antithamnion sublittorale* Setchell & Gardner
Dawson, 1954
San Jose del Cabo, Baja Calif.
- Antithamnion subulatum* (Harvey) J. Agardh
Scagel, 1957
Southern British Columbia to Monterey, Calif.
- Antithamnion uncinatum* Gardner
Scagel, 1957
Northern Wash. to Carmel, Calif.
- Antithamnion veleroae* Taylor
Taylor, 1945
Galapagos Arch.
- Platythamnion heteromorphum* (J. Agardh) J. Agardh
Doty, 1947
Oreg. to San Pedro, Calif.
- Platythamnion pectinatum* Kylin var. *pectinatum*
Dawson, 1954; Scagel, 1957
Hope I., British Columbia, to Cabo Colnett, Baja Calif.
- Platythamnion pectinatum* var. *laxum* Taylor
Dawson, 1954
Isla Clarión, Revillagigedo Arch.
- Platythamnion reversum* (Setchell & Gardner) Kylin var. *reversum*
Scagel 1957
Northern Wash. to Oreg.
- Platythamnion reversum* var. *laxum* Taylor
Taylor, 1945
Galapagos Arch.
- Platythamnion tepocensis* Dawson
Dawson, 1954
Bahía Tepoca, Gulf of Calif.
- Platythamnion villosum* Kylin
Dawson, 1954; Scagel, 1957; Dawson, Neushul & Wildman, 1960a
Sitka, Alaska, to Bahía Tortuga, Baja Calif.
- Ceramium affine* Setchell & Gardner var. *affine*
Taylor, 1945; Dawson, 1954
Isla Guadalupe, Baja Calif.; Isla Ángel de la Guarda, Gulf of Calif.; Guayas, Ecuador
- Ceramium affine* var. *peninsularis* Dawson
Dawson, 1954
Corona del Mar, Calif.; Scammon Lagoon, Baja Calif.; Punta Frailes, Gulf of Calif.

- Ceramium avalonae* Dawson
Dawson, 1954, 1960a
Santa Catalina I., Calif.; Isla Guadalupe, Baja Calif.; Puerto Culebra; Bahía Potrero Grande, Costa Rica
- Ceramium californicum* J. Agardh
Dawson, 1954, 1959c; Scagel, 1957
Southern British Columbia to Bahía Magdalena, Baja Calif.
- Ceramium camouii* Dawson
Dawson, 1954, 1957
Punta Banda; Bahía Vizcaino; Rocas Alijos, Baja Calif.; Gulf of Calif.
- Ceramium caudatum* Setchell & Gardner
Dawson, 1954, 1959
Balboa Harbor; Santa Catalina I., Calif.; Isla Guadalupe Baja Calif.; Gulf of Calif.
- Ceramium clarionense* Setchell & Gardner
Dawson, 1954, 1957
Balboa Harbor, Calif., to Isla Cedros; Rocas Alijos, Baja Calif.; Isla Jorge, Gulf of Calif. to Miramar, Nayarit; Revillagigedo Arch.
- Ceramium codicola* J. Agardh
Dawson, 1954; Scagel, 1957
Sitka, Alaska, to Bahía Tortuga, Baja Calif.
- Ceramium eatonianum* (Farlow) J. B. De Toni
Doty, 1947; Dawson, 1954, 1959c
Coos Bay, Oreg. to Isla Magdalena, Baja Calif.
- Ceramium equisetoides* Dawson
Dawson, 1954, 1957b
Balboa Harbor, Calif.; Bahía Tepoca, Sonora to Mazatlán, Sinaloa; Golfo de Nicoya, Costa Rica
- Ceramium evermannii* Setchell & Gardner
Dawson, 1954
Isla Guadalupe, Baja Calif.
- Ceramium fimbriatum* Setchell & Gardner
Dawson, 1954, 1959
Punta Banda to Cabeza Ballena, Baja Calif.; Isla Ángel de la Guarda, Gulf of Calif. to Acapulco, Guerrero
- Ceramium gardneri* Kylin
Doty, 1947; Dawson, 1950d
Coos Bay, Oreg., to Santa Cruz I. and Ventura, Calif.
- Ceramium gracillimum* var. *byssoideum* (Harvey) G. Mazoyer
Dawson, 1950d, 1954 (both as *C. masonii*), 1956, 1957b, 1959; Taylor, 1945 (as *C. byssoideum*)
Corona del Mar, Calif., to Cabeza Ballena, Baja Calif.; Gulf of Calif.; Costa Rica; Galapagos Arch.
- Ceramium hamatispinum* Dawson
Dawson, 1954
Miramar, Nayarit
- Ceramium hoodii* Taylor
Taylor, 1945
Galapagos Arch.
- Ceramium horridum* Setchell & Gardner
Dawson, 1954
Gulf of Calif.
- Ceramium howellii* Setchell & Gardner
Setchell & Gardner, 1937; Dawson, 1957
Galapagos Arch.
- Ceramium marshallense* Dawson
Dawson, 1957b
Golfo de Nicoya, Costa Rica
- Ceramium mazatlanense* Dawson
Dawson, 1954, 1954c, 1957b, 1959b
Kino, Sonora, to Salina Cruz, Oaxaca; Golfo Dulce, Costa Rica; Isla San Benedicto, Revillagigedo Arch.; Clipperton I. ?
- Ceramium nakamurai* Dawson
Dawson, 1957b
Golfo de Nicoya, Costa Rica
- Ceramium obesum* Dawson
Dawson, 1954
Bahía Agua Dulce, Isla Tiburón, Sonora

- Ceramium ornatum* Setchell & Gardner
Dawson, 1954
Isla Guadalupe, Baja Calif.
- Ceramium pacificum* (Collins) Kylin
Scagel, 1957; Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960
Northern British Columbia to Punta María, Baja Calif.
- Ceramium paniculatum* Okamura
Dawson, 1954, 1959
Guaymas, Sonora, to Mazatlán, Sinaloa
- Ceramium personatum* Setchell & Gardner
Taylor, 1945; Dawson, 1954
Isla Guadalupe; vicinity of Punta Santa Rosalía, Baja Calif.; Puerto Parker, Costa Rica?
- Ceramium procumbens* Setchell & Gardner
Hollenberg, 1948; Dawson, 1954, 1959, 1960a
Southern Calif. to Punta Santa Rosalía, Baja Calif.; Gulf of Calif.; Bahía Ballena, Costa Rica
- Ceramium recticorticum* Dawson
Dawson, 1954
Guaymas, Sonora; Mazatlán, Sinaloa
- Ceramium rubrum* (Hudson) C. Agardh
Scagel, 1957
Bering Sea to northern Wash.
- Ceramium serpens* Setchell & Gardner
Dawson, 1949a, 1954, 1957
Gulf of Calif.; Clipperton I. ?; Galapagos Arch. ?
- Ceramium sinicola* Setchell & Gardner var. *sinicola*
Dawson, 1954, 1957, 1959
Southern Calif. and Pacific Baja Calif.; Rocas Alijos; Isla San Benedicto, Revillagigedo Arch.; northern Gulf of Calif.
- Ceramium sinicola* var. *interrupta* (Setchell & Gardner) Dawson
Hollenberg, 1948; Dawson, 1954, 1959
Same range as the species
- Ceramium sinicola* var. *johnstonii* (Setchell & Gardner) Dawson
Dawson, 1954
Same range as the species
- Ceramium strictum* Harvey
Dawson, 1950c (as probably referable to *C. gardneri*); Scagel, 1957
Southern British Columbia
- Ceramium taylorii* Dawson
Taylor, 1945 (as *C. fastigiatum*); Dawson, 1954, 1954c, 1957b, 1959
Laguna Beach, Calif., to Bahía Magdalena, Baja Calif.; Gulf of Calif. to Acapulco, Guerrero; Isla San Benedicto, Revillagigedo Arch.; Golfo de Nicoya, Costa Rica; Galapagos Arch. ?
- Ceramium templetonii* Setchell & Gardner
Setchell & Gardner, 1937; Dawson, 1957
Galapagos Arch.
- Ceramium vagabunde* Dawson
Dawson, 1954c (as *Ceramium* sp.), 1957a, 1957b
Isla San Benedicto, Revillagigedo Arch.; Golfo Dulce, Costa Rica
- Ceramium viscainoense* Dawson
Dawson, 1954
Punta Santa Rosalía, Baja Calif.
- Ceramium zaca* Setchell & Gardner
Dawson, 1954, 1957, 1959; Dawson, Neushul & Wildman, 1960a
Southern Calif. to Rocas Alijos; Punta Abreojos, Baja Calif.; Bahía Agua Verde, Gulf of Calif.
- Centroceras bellum* Setchell & Gardner
Dawson, 1954
Guaymas, Sonora

- Centroceras clavulatum* (C. Agardh) Montagne
var. *clavulatum*
Dawson, 1954, 1954c, 1957, 1957b, 1959,
1959c; Taylor, 1945
Santa Cruz, Calif., to Panamá; Galapagos
Arch.
- Centroceras clavulatum* var. *inerme* (Kützing)
Piccone
Dawson, 1957
Galapagos Arch.
- Centroceras minutum* Yamada
Dawson, 1960a
Isla Brincanco, Panamá
- Microcladia borealis* Ruprecht
Okamura, 1933; Scagel, 1957
Aleutian Islands, Alaska, to San Simeon, Calif.
- Microcladia californica* Farlow
Smith, 1944
San Francisco to San Diego, Calif.
- Microcladia coulteri* Harvey
Dawson, 1954, 1959c, Scagel, 1957; Dawson,
Neushul & Wildman, 1960
Vancouver I., British Columbia, to Punta
Santa Rosalía, Baja Calif.
- Neoptilota asplenioides* (Esper) Kylin
Kylin, 1956; Scagel, 1957 (as *Ptilota aspleni-*
oides)
Yakutat Bay, Alaska, to Puget Sound, Wash.
- Neoptilota californica* (Ruprecht) Kylin
Kylin, 1956; Scagel, 1957 (as *Ptilota cali-*
fornica)
Northern British Columbia to San Diego,
Calif.
- Neoptilota densa* (C. Agardh) Kylin
Kylin, 1956; Dawson, 1954 (as *Plumaria*
densa); Smith, 1944; Dawson, 1945b
both as *Ptilota densa*)
Tomales Bay, Calif., to Punta Baja, Baja Calif.
- Neoptilota hypnoides* (Harvey) Kylin
Kylin, 1956; Scagel, 1957 (as *Ptilota hyp-*
noides)
Sitka, Alaska, to San Luis Obispo Co., Calif.
- Ptilota filicina* (Farlow) J. Agardh
Kylin, 1956; Scagel, 1957; Dawson, 1954 (as
Plumaria filicina); Dawson, 1949a, 1959c
(both as *Ptilota filicina*)
Bering Sea to Cabo Colnett, Baja Calif.
- Ptilota pectinata* (Gunner) Kjellman
Kylin, 1956; Scagel, 1957
Bering Sea to Puget Sound, Wash.
- Ptilota tenuis* Kylin
Kylin, 1956; Scagel, 1957
Northern British Columbia to northern
Wash.
- Spyridia filamentosa* (Wulfen) Harvey
Kylin, 1941; Taylor, 1945; Dawson, 1954,
1957b
Southern Calif. to Panamá
- Wrangelia argus* (Montagne) Montagne
Dawson, 1960a
Punta Naranja, Panamá
- Callithamnion acutum* Kylin
Scagel, 1957
Northern Wash.
- Callithamnion arborescens* Gardner
Gardner, 1927b
Sitka, Alaska
- Callithamnion biseriatum* Kylin
Scagel, 1957
Northern British Columbia to Monterey,
Calif.
- Callithamnion bisporum* Gardner
Scagel, 1957
Northern Wash.
- Callithamnion breviramsum* Gardner
Gardner, 1927c
La Jolla, Calif.
- Callithamnion byssoides* Arnott
Dawson, 1954, 1960a
Isla Guadalupe, Baja Calif.

- Callithamnion californicum* Gardner
Smith, 1944
Monterey Peninsula, Calif.
- Callithamnion ecuadoreanum* Taylor
Taylor, 1945
Galapagos Arch.
- Callithamnion endovaginum* Setchell & Gardner
Kyllin, 1941; Dawson, 1944, 1954
La Jolla, Calif.; Guaymas, Sonora
- Callithamnion epiphyticum* Taylor
Taylor, 1945
Galapagos Arch.
- Callithamnion laxum* Setchell & Gardner
Scagel, 1957
Southern British Columbia and northern
Wash.; Oreg.
- Callithamnion marshallense* Dawson
Dawson, 1960a
Bahía Uvita, Costa Rica
- Callithamnion pacificum* Taylor
Dawson, 1954
Isla Socorro, Revillagigedo Arch.
- Callithamnion paschale* Børgesen
Dawson, 1957, 1959
Isla San Benedicto, Revillagigedo Arch. ?;
Gulf of Calif.
- Callithamnion pikeanum* Harvey var. *pikeanum*
Scagel, 1957; Dawson, 1959c
Vallenar Point, Alaska, to Point Dume, Calif.
- Callithamnion pikeanum* var. *pacificum* (Harvey) Setchell & Gardner
Scagel, 1957
Shumagin I., Alaska, to Oreg.; Point Mugu,
Calif.
- Callithamnion ramosissimum* Gardner
Gardner, 1927c; Dawson, 1949
Santa Catalina I., La Jolla, Calif.
- Callithamnion rupicolum* Anderson f. *rupicolum*
Smith, 1944; Dawson, 1954
Fort Ross, Calif., to Isla Magdalena, Baja
Calif.
- Callithamnion rupicolum* f. *pygmaeum* Collins
in Collins, Holden & Setchell
Collins, Holden & Setchell, 1911 (P.B.A.
1797); Dawson, 1949; Taylor, 1945 (as
possibly *C. rupicolum* f. *pygmaeum*)
Santa Catalina I., Calif.; Galapagos Arch.
- Callithamnion socorriense* Taylor
Dawson, 1954
Isla Socorro, Revillagigedo Arch.
- Callithamnion squarulosum* Harvey
Harvey, 1853; J. Agardh, 1876
Golden Gate (San Francisco) Calif.
- Callithamnion varispiralis* Dawson
Dawson, 1954
Santa Catalina I., Calif.; Bahía Vizcaino, Baja
Calif.
- Haloplegma mexicanum* Taylor
Dawson, 1954
Isla María Magdalena, Nayarit
- Pleonosporium abyssicola* Gardner
Scagel, 1957
Near Friday Harbor, Wash.
- Pleonosporium complanatum* Taylor
Taylor, 1945
Galapagos Arch.
- Pleonosporium dasyoides* (J. Agardh) J. B. De
Toni
Dawson, 1954, 1959c
Tomales Bay, Calif., to Punta Descanso, Baja
Calif.
- Pleonosporium globuliferum* Levring
Dawson, 1957b, 1960a
Puerto Guatulco, Oaxaca; Golfo de Nicoya,
Costa Rica

- Pleonosporium kobayashii* Okamura
Okamura 1933
Atka I., Aleutian Islands, Alaska
- Pleonosporium polycarpum* Gardner
Gardner, 1927b
La Jolla, Calif.
- Pleonosporium pygmaeum* Gardner
Gardner, 1927b
La Jolla, Calif.
- Pleonosporium squarrosus* Kylin var. *squarrosus*
Scagel, 1957
Southern British Columbia to Northern Wash.
- Pleonosporium squarrosus* var. *obovatum*
Gardner
Scagel, 1957
Sidney, Vancouver I., British Columbia
- Pleonosporium vancouverianum* (J. Agardh) J. Agardh
Scagel, 1957
Northern British Columbia to Monterey, Calif.
- Griffithsia* (?) *anthericephala* Dawson
Dawson, 1954
Isla Guadalupe, Baja Calif.
- Griffithsia multiramosa* (Setchell & Gardner)
Taylor var. *multiramosa*
Dawson 1945b, 1954
San Diego, Calif.; Isla Guadalupe; Scammon Lagoon; San Ignacio Lagoon, Baja Calif.; Gulf of Calif.
- Griffithsia multiramosa* var. *balboensis* Hollenberg
Hollenberg, 1945
Balboa Harbor, Calif.
- Griffithsia multiramosa* var. *minor* Taylor
Dawson, 1954
Punta Gorda, Baja Calif. del Sur
- Griffithsia pacifica* Kylin
Scagel, 1957; Dawson, 1954; Dawson, Neushul & Wildman, 1960
Southern British Columbia to southern Baja Calif.; northern Gulf of Calif.; Revillagigedo Arch. ?; Galapagos Arch.
- Griffithsia tenuis* C. Agardh
Dawson, 1954, 1959
Scammon Lagoon, Baja Calif.; Punta Peñasco, Sonora, to Mazatlán, Sinaloa
- Spermothamnion phycophilum* Taylor
Taylor, 1945
Galapagos Arch.
- Spermothamnion snyderae* Farlow
Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960
Bolínas, Calif., to Isla Magdalena, Baja Calif.; northern Gulf of Calif.
- Tiffaniella saccorbiza* (Setchell & Gardner)
Doty & Meñez
Doty & Meñez, 1960; Dawson, 1954 (as *Spermothamnium saccorbiza*)
Isla Guadalupe; Bahía Vizcaino, Baja Calif.

FAM. DELESSERIACEAE

- Caloglossa leprieurii* (Montagne) J. Agardh
Taylor, 1945; Dawson, 1957b
Golfo Dulce, Costa Rica; Bahía Buenaventura, Colombia; Galapagos Arch.; Bahía San Francisco, Ecuador
- Branchioglossum undulatum* Dawson
Dawson, 1949, 1960a; Dawson, Neushul & Wildman, 1960, 1960a
Santa Rosa I., Calif., to Punta Asunción, Baja Calif.; Bahía Santiago, Colima
- Branchioglossum woodii* (J. Agardh) Kylin
Dawson, 1954, 1957, 1959; Scagel, 1957
Vancouver I., British Columbia, to Bahía Vizcaino, Baja Calif.; Rocas Alijos; Gulf of Calif.

- Hypoglossum abyssicolum* Taylor
Dawson, 1954
Islas Las Tres Marias, Nayarit; Puerto Cul-
ebra, Costa Rica; Isla Gorgona, Colombia;
Galapagos Arch.
- Hypoglossum attenuatum* Gardner
Dawson, 1954
Isla Guadalupe; San Ignacio Lagoon, Baja
Calif.; northern Gulf of Calif.
- Hypoglossum retusum* Dawson
Dawson, 1954; Dawson, Neushul & Wild-
man, 1960a
Isla Cedros; near Punta Eugenio, Baja Calif.
- Hemineura* (?) *howellii* Taylor
Taylor, 1945
Galapagos Arch.
- Membranoptera denticulata* (Montagne) Kylin
Kylin, 1924; Setchell & Gardner, 1903 (as
Pteridium spinulosum)
Bering Sea to Morzhovoi Bay, Alaska
- Membranoptera dimorpha* Gardner
Scagel, 1957
Queen Charlotte I., British Columbia, to Coos
Bay, Oreg.
- Membranoptera multiramosa* Gardner
Doty, 1947
Oreg. to Monterey, Calif.
- Membranoptera platyphylla* (Setchell & Gard-
ner) Kylin
Scagel, 1957
Southern British Columbia to Oreg.
- Membranoptera setchellii* Gardner
Gardner, 1926
Morzhovoi Bay, Alaska
- Membranoptera spatulata* Dawson
Dawson, 1954
Isla Patos, Sonora
- Membranoptera tenuis* Kylin
Scagel, 1957
Northern Wash.
- Membranoptera weeksiae* Setchell & Gardner
Scagel, 1957
Northern Wash.; San Francisco to San Diego,
Calif.
- Pantoneura baerii* (Ruprecht) Kylin
Kylin, 1924
Sitka, Alaska
- Pantoneura juergensii* (J. Agardh) Kylin
Kylin, 1924
Bering Sea to Unalaska, Alaska
- Holmesia californica* (Dawson) Dawson
Scagel, 1957
Northern Wash.; San Diego, Calif.
- Schizoseris pygmaea* Dawson
Dawson, 1954, 1959
Northern Gulf of Calif.
- Delesseria decipiens* J. Agardh
Scagel, 1957
Prince William Sound, Alaska, to Carmel,
Calif.
- Delesseria hancockii* Taylor
Taylor, 1945
Galapagos Arch.
- Platysiphonia clevelandii* (Farlow) Papenfuss
Scagel, 1957
Northern Wash. to San Diego, Calif.
- Platysiphonia parva* Silva & Cleary
Silva & Cleary, 1954; Dawson, 1954
Isla Guadalupe, Baja Calif.
- Taenioma perpusillum* J. Agardh
Dawson, 1954, 1959, 1960a
Gulf of Calif.; Isla Brincanco, Panamá
- Erythrogllossum californicum* (J. Agardh) J.
Agardh
Doty, 1947; Dawson, 1958
Oreg.; Monterey to Ventura, Calif.
- Erythrogllossum intermedium* (J. Agardh) Kylin
Scagel, 1957
Vancouver I., British Columbia

- Sorella delicatula* (Gardner) Hollenberg var. *delicatula*
Hollenberg, 1943
San Pedro, Calif.
- Sorella delicatula* var. *californica* Hollenberg
Hollenberg, 1943
Southern Calif.
- Sorella divaricata* (Setchell & Gardner) Hollenberg
Hollenberg, 1943; Smith, 1944 (as *Erythro-
glossum divaricata*)
Pacific Grove, Calif.
- Sorella pinnata* Hollenberg
Dawson, 1954
Southern Calif.; Islas San Benito, Baja Calif.;
Gulf of Calif.
- Grinnellia lanceolata* Dawson
Dawson, 1954, 1959c
Punta Gorda, Baja Calif. del Sur
- Polyneura latissima* (Harvey) Kylin
Scagel, 1957; Dawson, 1954, 1959c; Dawson,
Neushul & Wildman, 1960, 1960a
Northern British Columbia to Punta Eugenio,
Baja Calif.
- Polyneurella hancockii* Dawson
Dawson, 1954
Isla Angel de la Guarda, Gulf of Calif.
- Nienburgia andersoniana* (J. Agardh) Kylin
Doty, 1947; Dawson, 1954, 1959c; Dawson,
Neushul & Wildman, 1960
Oreg.; Santa Cruz, Calif., to Isla Magdalena,
Baja Calif.
- Nienburgia borealis* (Kylin) Kylin
Scagel, 1957
Southern British Columbia to northern Wash.
- Phycodrys ambigua* Gardner
Gardner, 1927a
Sitka, Alaska
- Phycodrys bullata* Gardner
Gardner, 1927a
Agattu I., to Sitka, Alaska
- Phycodrys elegans* Setchell & Gardner
Setchell & Gardner, 1937; Taylor, 1945
Galapagos Arch.
- Phycodrys pulchra* Taylor
Taylor, 1945 (as probably equal to *P. elegans*)
Galapagos Arch.
- Phycodrys setchellii* Skottsberg
Doty, 1947; Dawson, 1954, 1959c
Oreg. to Isla Cedros, Baja Calif.
- Pseudophycodrys rainosukei* Tokida
Okamura, 1933
Atka I., Aleutian Islands, Alaska
- Polycoryne gardneri* Setchell
Scagel, 1957
Northern Wash. to Monterey, Calif.
- Polycoryne phycodricola* Dawson
Dawson, 1954
Isla Cedros, Baja Calif.
- Haraldia prostrata* Dawson, Neushul & Wild-
man
Dawson, Neushul & Wildman, 1960a
Islas San Benito, Baja Calif.
- Anisocladella pacifica* Kylin
Smith, 1944; Hollenberg, 1948; Dawson,
1954, 1959c; Dawson, Neushul & Wild-
man, 1960
Santa Cruz, Calif., to Bahía Asunción, Baja
Calif.
- Myriogramme caespitosa* Dawson
Dawson, 1949; Dawson, Neushul & Wild-
man, 1960, 1960a
Santa Rosa I., Calif., to Isla Magdalena, Baja
Calif.
- Myriogramme divaricata* Dawson
Dawson, 1954
Isla Ángel de la Guarda, Gulf of Calif.

- Myriogramme hollenbergii* Kylin
Smith, 1944; Dawson, 1954, 1958
Monterey; La Jolla, Calif.; Isla Magdalena,
Baja Calif.
- Myriogramme kylinii* Taylor
Taylor, 1945
Galapagos Arch.
- Myriogramme osorioi* Dawson
Dawson, 1954
Isla Patos; Isla Partida, northern Gulf of Calif.
- Myriogramme pulchra* Gardner
Scagel, 1957
Northern Wash.
- Myriogramme repens* Hollenberg
Hollenberg, 1945
Point Vicente, Calif.
- Myriogramme spectabilis* (Eaton) Kylin
Dawson, 1954; Scagel, 1957
Northern Wash. to Socorro, Baja Calif.
- Acrosorium* (?) *fragile* Taylor
Taylor, 1945
Galapagos Arch.
- Acrosorium papenfussii* Taylor
Taylor, 1945
Galapagos Arch.
- Acrosorium uncinatum* (Turner) Kylin
Kylin, 1941; Dawson, 1954, 1959c; Dawson,
Neushul & Wildman, 1960
Southern Calif. to Bahía Santa María, Baja
Calif.
- Nitophyllum divaricatum* Taylor
Taylor, 1945
Galapagos Arch.
- Nitophyllum galapagense* Taylor
Taylor, 1945
Galapagos Arch.
- Nitophyllum mirabile* Kylin
Scagel, 1957
Southern British Columbia to northern Wash.
- Hymenena cuneifolia* Doty
Doty, 1947
Coos Bay, Oreg.
- Hymenena flabelligera* (J. Agardh) Kylin
Scagel, 1957
Southern British Columbia to Carmel, Calif.
- Hymenena kylinii* Gardner
Doty, 1947
Oreg.; San Francisco to Monterey, Calif.
- Hymenena multiloba* (J. Agardh) Kylin
Doty, 1947
Oreg. to Carmel, Calif.
- Hymenena setchellii* Gardner
Scagel, 1957
Hope I., British Columbia, to Carmel, Calif.
- Hymenena smithii* Kylin
Doty, 1947
Oreg.; Carmel, Calif.
- Cryptopleura brevis* Gardner
Doty, 1947
Oreg.; Moss Beach, Calif.
- Cryptopleura corallinara* (Nott) Gardner
Dawson, 1954, 1957, 1959c; Dawson, Neu-
shul & Wildman, 1960a
San Diego, Calif., to Isla Magdalena; Rocas
Alijos, Baja Calif.
- Cryptopleura crispa* Kylin
Kylin, 1941; Doty, 1947; Dawson, 1954,
1959c; Dawson, Neushul & Wildman,
1960
Oreg.; Ventura Co., Calif., to Isla Magdalena,
Baja Calif.
- Cryptopleura dichotoma* Gardner
Gardner, 1927
San Pedro, Calif.

- Cryptopleura lobulifera* (J. Agardh) Kylin
Smith, 1944; Dawson, 1949, 1954, 1959c
Tomales Bay, Calif., to Bahía Santa María,
Baja Calif.
- Cryptopleura ruprechtiana* (J. Agardh) Kylin
Scagel, 1957
Sitka, Alaska, to northern Calif.
- Cryptopleura spatulata* Gardner
Gardner, 1927; Dawson, 1960a
Santa Barbara; San Pedro, Calif.; Islas Todos
Santos, Baja Calif.
- Cryptopleura violacea* (J. Agardh) Kylin
Scagel, 1957; Dawson, 1954, 1959c; Dawson,
Neushul & Wildman, 1960
Southern Vancouver I., British Columbia, to
near Punta María, Baja Calif.
- Botryoglossum farlowianum* (J. Agardh) J. B.
De Toni
Scagel, 1957 Dawson, 1954, 1959c; Dawson,
Neushul & Wildman, 1960, 1960a
Puget Sound, Wash., to Islas San Benito, Baja
Calif.
- Gonimophyllum skottsbergii* Setchell
Scagel, 1957
Friday Harbor, Wash., to San Diego, Calif.
- FAM. DASYACEAE
- Dasya abyssicola* Dawson
Dawson, 1949
San Clemente Is., Calif.
- Dasya californica* Gardner
Dawson, 1945b, 1954
Southern Calif. to Isla Magdalena, Baja Calif.
- Dasya eastwoodae* Setchell & Gardner
Dawson, 1954
Isla Guadalupe, Baja Calif.
- Dasya pedicellata* C. Agardh
Dawson, 1954, 1957, 1959
Rocas Alijos; central Baja Calif.; northern
Gulf of Calif.
- Dasya sinicola* (Setchell & Gardner) Dawson
Dawson, 1959
Southern Gulf of Calif.
- Dasya stanfordiana* Farlow
Taylor, 1945; Dawson, 1954
Isla Guadalupe, Baja Calif.; Islas Tres Marías,
Nayarit; Galapagos Arch.
- Rhodoptilum densum* (G. M. Smith) comb.
nov.
Smith, in Smith & Hollenberg, 1943; 217;
Smith, 1944; Hollenberg, 1948 (all as
Dasyopsis densa)
Santa Cruz, Calif., to southern Calif.
- Rhodoptilum plumosum* (Harvey & Bailey)
Kylin
Kylin, 1956; Scagel, 1957 (as *Dasyopsis plu-*
mosa)
Queen Charlotte Sound, British Columbia, to
northern Calif.
- Pogonophorella californica* (J. Agardh) Silva
Hollenberg, 1948; Dawson, 1945b (both as
Pogonophora), 1954, 1959c; Dawson, Neu-
shul & Wildman, 1960
Santa Barbara, Calif., to Bahía Asunción, Baja
Calif.
- Heterosiphonia asymmetria* Hollenberg
Hollenberg, 1945
Corona del Mar, Calif.
- Heterosiphonia densiuscula* Kylin
Scagel, 1957
Northern Wash.
- Heterosiphonia erecta* Gardner, em. Setchell &
Gardner
Dawson, 1949, 1954, 1957; Taylor, 1945
Santa Monica, Calif., to Rocas Alijos; Isla
Magdalena, Baja Calif.; Guayas, Ecuador
- Heterosiphonia laxa* Kylin
Scagel, 1957
Southern British Columbia to northern Wash.
- Heterosiphonia wurdemannii* var. *laxa* Børgesen
Dawson, 1957b, 1959
Isla Espíritu Santo, Gulf of Calif.; Golfo de
Nicoya, Costa Rica

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- Polysiphonia acuminata* Gardner
Hollenberg, 1942a; Smith, 1944
Monterey to La Jolla, Calif.
- Polysiphonia bajacali* Hollenberg
Hollenberg, 1961
Isla Guadalupe, Baja Calif.
- Polysiphonia beaudettei* Hollenberg
Hollenberg, 1961
Isla Guadalupe; Scammon Lagoon, Baja Calif.;
Isla Socorro, Revillagigedo Arch.; Isla
Grande, Guerrero; Bahía Potrero Grande,
Costa Rica
- Polysiphonia bifurcata* Hollenberg
Taylor, 1945; Hollenberg, 1961
Scammon Lagoon, Baja Calif.; Playa Blanca,
Costa Rica; Galapagos Arch.
- Polysiphonia brodiaei* (Dillwyn) Greville
Hollenberg, 1944; Smith, 1944
Sausalito to Santa Monica, Calif.
- Polysiphonia confusa* Hollenberg
Hollenberg, 1961; Dawson, 1959c (as *P. in-*
conspicua)
Corona del Mar, Calif., to Desembarcadero
de Miller, Baja Calif.
- Polysiphonia decussata* Hollenberg
Hollenberg, 1961; Taylor, 1945
Topanga Canyon, Calif., to near Punta Malar-
rino, Baja Calif.; Isla Guadalupe; Gala-
pagos Arch.
- Polysiphonia ferulacea* Suhr
Dawson, 1957
Clipperton I.
- Polysiphonia flaccidissima* Hollenberg var. *flac-*
cidissima
Hollenberg, 1961
Laguna Beach, Calif., to Panamá
- Polysiphonia flaccidissima* var. *smithii* Hollen-
berg
Hollenberg, 1942a; Smith, 1944
San Francisco to San Diego, Calif.
- Polysiphonia guadalupensis* Setchell & Gardner
Hollenberg, 1961
Isla Guadalupe, Baja Calif.
- Polysiphonia hancockii* Dawson
Hollenberg, 1961
Cabeza Ballena to San Jose del Cabo, Baja
Calif. del Sur
- Polysiphonia hendryi* Gardner var. *hendryi*
Doty, 1947; Hollenberg, 1961
Cape Arago, Oreg., to Isla Cedros, Baja Calif.
- Polysiphonia hendryi* var. *gardneri* (Kylin)
Hollenberg
Scagel, 1957; Dawson, 1959c (both as *P. col-*
linsii); Hollenberg, 1961
British Columbia to Cabo San Lucas, Baja
Calif.
- Polysiphonia hendryi* var. *compacta* (Hollen-
berg) Hollenberg
Hollenberg, 1961
Southern Calif. and northern Baja Calif.
- Polysiphonia hendryi* var. *deliquescens* (Hollen-
berg) Hollenberg
Scagel, 1957 (as *P. collinsii* var. *deliques-*
cens); Hollenberg, 1961
Prince William Sound, Alaska, to Oreg.
- Polysiphonia hendryi* var. *luxurians* (Hollen-
berg) Hollenberg
Scagel, 1957 (as *P. collinsii* var. *luxurians*;
Hollenberg, 1961
Northern Wash.
- Polysiphonia homia* Setchell & Gardner
Hollenberg, 1961
Isla Guadalupe, Baja Calif.
- Polysiphonia howei* Hollenberg
Taylor, 1955; Hollenberg, 1958a
Bahía de Panamá, Panamá; Bahía Cobita,
Colombia

- Polysiphonia indigena* Hollenberg
Hollenberg, 1958a, 1944 (as *P. dichotoma*)
Santa Cruz; San Diego, Calif.
- Polysiphonia johnstonii* Setchell & Gardner var. *johnstonii*
Dawson, Neushul & Wildman, 1960a; Hollenberg, 1961
Santa Catalina I., Calif., to Topolobampo, Sinaloa; Gulf of Calif.
- Polysiphonia johnstonii* var. *concinna* (Hollenberg) Hollenberg
Hollenberg, 1961
La Jolla, Calif., to Mazatlán, Sinaloa; Gulf of Calif.
- Polysiphonia macounii* Hollenberg
Scagel, 1957
Southern British Columbia
- Polysiphonia masonii* Setchell & Gardner
Hollenberg, 1961
Isla Guadalupe, Baja Calif.
- Polysiphonia mollis* Hooker & Harvey
Dawson, 1959c; Scagel, 1957 (both as *P. snyderae*); Hollenberg, 1961; Dawson, 1957; 1957b, 1959b; Dawson, Neushul & Wildman, 1960
Southern British Columbia to central Mexico
- Polysiphonia nathanielii* Hollenberg
Hollenberg, 1961
Santa Monica, Calif., to Playa Rosarita, Baja Calif.
- Polysiphonia pacifica* var. *pacifica*
Doty, 1947; Dawson, 1959c; Hollenberg, 1961
Sitka, Alaska, to Islas Coronados, Baja Calif.
- Polysiphonia pacifica* var. *delicatula* Hollenberg
Hollenberg, 1961
Monterey, Calif., to Bahía Cahuacán, Chiapas; central Gulf of Calif.
- Polysiphonia pacifica* var. *determinata* Hollenberg
Scagel, 1957
Alaska to central Calif.
- Polysiphonia pacifica* var. *distans* Hollenberg
Scagel, 1957
Southern British Columbia to Santa Cruz, Calif.
- Polysiphonia pacifica* var. *disticha* Hollenberg
Hollenberg, 1942a; Scagel, 1957; Segi, 1951 (as *P. abscissa*)
Vancouver I., British Columbia, to central Calif.
- Polysiphonia pacifica* var. *gracilis* Hollenberg
Scagel, 1957
Southern British Columbia to central Calif.
- Polysiphonia paniculata* Montagne
Scagel, 1957; Dawson, 1959c; Hollenberg, 1961; Dawson, Neushul & Wildman, 1960a
Port Holmes, British Columbia, to Punta Baja, Baja Calif.; northern Gulf of Calif.
- Polysiphonia savatieri* Hariot
Hollenberg, 1961; Dawson, 1945b (as *P. minutissima*)
Santa Catalina I., Calif., to Isla Guadalupe; Punta Banda, Baja Calif.
- Polysiphonia senticulosa* Harvey
Scagel, 1957
Southern British Columbia to Monterey, Calif.
- Polysiphonia simplex* Hollenberg
Hollenberg, 1961; Dawson, 1959c
Southern Calif. to Costa Rica; Gulf of Calif.; Revillagigedo Arch.
- Polysiphonia sonorensis* Hollenberg
Hollenberg, 1961
Guaymas; Empalme, Sonora
- Polysiphonia subtilissima* Montagne (fide Tseng)
Dawson, 1957b, 1959b
Costa Rica; Clipperton I.

- Polysiphonia urceolata* (Lightfoot) Greville
Okamura, 1933; Segi, 1951; Scagel, 1957
Aleutian I., Alaska, to northern Wash.
- Tayloriella dictyurus* (J. Agardh) Kylin
Kylin, 1956; Dawson, 1954 (as *Bryocladia dictyurus*)
Bahía Petatlán, Guerrero; Pochetti, Oaxaca ?
- Bryocladia borealis* Dawson
Dawson, 1954
Campo Malarrimo, Bahía Vizcaino, Baja Calif.
- Ophidocladus californica* (Hollenberg) Kylin
Kylin, 1956; Dawson, 1960a; Hollenberg, 1943 (as *Rhodosiphonia*)
Santa Barbara to San Diego, Calif.
- Digenia simplex* (Wulfen) C. Agardh
Dawson, 1954, 1957b, 1959
Gulf of Calif. to Costa Rica
- Bryothamnion pacificum* Taylor
Dawson, 1954
Bahía Vizcaino, Baja Calif.; Isla María Magdalena, Nayarit
- Bostrychia binderi* Harvey
Taylor, 1945; Dawson, 1957b
Golfo Dulce, Costa Rica; Galapagos Arch.
- Bostrychia calliptera* (Montagne) Montagne
Taylor, 1945
Panamá; Choco, Bahía Buenaventura; Isla Gorgona, Colombia; Galapagos Arch.
- Bostrychia radicans* Montagne
Taylor, 1945; Dawson, 1954, 1957b; Post 1955 (as *B. radicans* f. *moniliforme*)
Guaymas, Sonora; Barra de Navidad, Jalisco; El Salvador; Golfo Dulce, Costa Rica; Choco, Bahía Buenaventura, Colombia; Galapagos Arch.
- Bostrychia simpliciuscula* Harvey ex J. Agardh
Dawson, 1957b
Golfo de Nicoya, Costa Rica
- Bostrychia tenella* J. Agardh
Taylor, 1945
Galapagos Arch.
- Lophosiphonia macra* (Harvey) Falkenberg
Dawson, 1954c
Isla San Benedicto, Revillagigedo Arch.
- Lophosiphonia mexicana* Dawson
Dawson, 1954
Isla Cedros, Baja Calif.; Isla Ángel de la Guarda, Gulf of Calif.; Isla Clarión, Revillagigedo Arch.
- Lophosiphonia reptabunda* (Suhr) Kylin
Kylin, 1956; Dawson, 1957b, 1959c (possibly confused with *Ophidocladus*); Scagel, 1957 (as *L. obscura*); Hollenberg, 1958a (as *L. obscura*)
Southern British Columbia to northern Wash.; southern Calif. ?; Costa Rica ?
- Lophosiphonia scopulorum* (Harvey) Womersley
Dawson, 1957b, 1959, 1959c, 1954 (as *L. villum*); Scagel, 1957 (as *L. villum*)
Southern British Columbia to Isla Magdalena, Baja Calif.; Gulf of Calif.
- Broggiartella mucronata* (Harvey) Schmitz
Dawson, 1954; Kylin, 1956 (as probably a species of *Micropeuce*)
Isla María Magdalena, Nayarit
- Veleroa subulata* Dawson
Dawson, 1954
Bahía Tepoca, Sonora
- Pterosiphonia arctica* Setchell & Gardner
Okamura, 1933; Scagel, 1957
Aleutian I., Alaska, to Puget Sound, Wash.
- Pterosiphonia baileyi* (Harvey) Falkenberg
Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960
Crescent City, Calif., to Isla San Roque, Baja Calif.

- Pterosiphonia bipinnata* (Postels & Ruprecht) Falkenberg var. *bipinnata*
Okamura, 1933; Scagel, 1957
Aleutian I., Alaska, to San Pedro, Calif.
- Pterosiphonia bipinnata* var. *robusta* (Gardner) Doty
Scagel, 1957
Sitka, Alaska, to Oreg.
- Pterosiphonia californica* Kylin
Kylin, 1941; Hollenberg, 1948
La Jolla, Calif.
- Pterosiphonia dendroidea* (Montagne) Falkenberg
Taylor, 1945; Scagel, 1957; Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960
Northern British Columbia to San Jose del Cabo, Baja Calif.; Galapagos Arch.
- Pterosiphonia gracilis* Kylin
Scagel, 1957
Southern British Columbia to Coos Bay, Oreg.
- Pterosiphonia pennata* (Roth) Falkenberg
Dawson, 1954
Bahía Tepoca, Sonora
- Levringiella gardneri* (Setchell) Kylin
Dawson, 1945c; Hollenberg 1948 (both as *Stromatocarpus gardneri*); Kylin, 1956
Santa Monica to La Jolla, Calif.
- Pterochondria pygmaea* (Setchell) Hollenberg
Dawson, 1954; Dawson, Neushul & Wildman, 1960
Southern Calif. to Bahía Asunción, Baja Calif.
- Pterochondria woodii* (Harvey) Hollenberg
Scagel, 1957; Dawson, 1959c; Dawson, Neushul & Wildman, 1960
Vancouver, British Columbia, to Isla Asunción, Baja Calif.
- Herposiphonia grandis* Kylin
Scagel, 1957
Southern British Columbia to Coos Bay, Oreg.
- Herposiphonia rigida* Gardner var. *rigida*
Scagel, 1957
Southern British Columbia to Santa Monica, Calif.
- Herposiphonia rigida* var. *laxa* Setchell & Gardner
Dawson, 1949, 1954
Santa Catalina I., Calif.; Isla Guadalupe, Baja Calif.
- Herposiphonia secunda* (C. Agardh) Ambronn
Taylor, 1945; Hollenberg, 1948; Dawson, 1957, 1957b, 1959, 1959b, 1959c
Southern Calif. to Isla Jicarita, Panamá; southern Gulf of Calif.; Clipperton I.
- Herposiphonia spinosa* Dawson
Dawson, 1959
Isla Partida, Baja Calif. del Sur
- Herposiphonia subdisticha* Okamura
Dawson, 1954; Scagel, 1957 (both as *H. parva*); Dawson, 1954, 1957b, 1959, 1960a
Northern Wash. to Isla Guadalupe; Islas San Benito, Baja Calif.; Gulf of Calif.; Golfo de Nicoya, Costa Rica
- Herposiphonia tenella* (C. Agardh) Nägeli
Hollenberg, 1948; Dawson, 1954, 1954c, 1957b, 1959
Southern Calif. to Bahía Vizcaino, Baja Calif.; Kino, Sonora to Golfo de Nicoya, Costa Rica; Isla San Benedicto, Revillagigedo Arch.
- Herposiphonia verticillata* (Harvey) Kylin
Coe, 1932; Dawson, 1954, 1959c
San Francisco, Calif., to Punta Santa Rosalía, Baja Calif.
- Amplisiphonia pacifica* Hollenberg
Dawson, 1954; Scagel, 1957; Dawson, Neushul & Wildman, 1960, 1960a
Northern British Columbia to near Punta Eugenio, Baja Calif.

- Jantiniella verrucaeformis* (Setchell & McFadden) Kylin
Dawson, 1954 (in part as *J. sinicola*), 1959; Setchell & Gardner, 1930 (as *J. sinicola*)
San Pedro, Calif., to Bahía Vizcaino, Baja Calif.; Isla Clarión, Revillagigedo Arch.; southern Gulf of Calif.
- Chondria arcuata* Hollenberg
Hollenberg, 1945
Corona del Mar; Laguna Beach, Calif.
- Chondria californica* (Collins) Kylin
Dawson, 1946 (as *C. cuscutooides*), 1954, 1954*d*, 1959, 1959*c*; Dawson, Neushul & Wildman, 1960
La Jolla, Calif., to Puerto Culebra, Costa Rica
- Chondria clarionensis* Setchell & Gardner
Dawson, 1954, 1959 (as possibly equal to *C. californica*)
Isla Guadalupe, Baja Calif., Isla Clarión, Revillagigedo Arch.
- Chondria dangeardii* Dawson
Dawson, 1960*a*
Isla del Rey, Panamá
- Chondria dasyphylla* (Woodward) C. Agardh
Dawson, 1954, 1959
Bahía Gonzaga to Bahía Agua Verde, Gulf of Calif.
- Chondria decipiens* Kylin
Smith, 1944; Dawson, 1945*b*, 1954, 1958, 1959, 1959*c*
Santa Cruz, Calif., to Cabo Colnett, Baja Calif.
Isla San Pedro Nolasco, Gulf of Calif. ?
- Chondria flexicaulis* Taylor
Taylor, 1945
Galapagos Arch.
- Chondria lancifolia* Okamura
Dawson, 1957, 1957*b*
Rocas Alijos, Baja Calif.; Golfo de Nicoya, Costa Rica ?
- Chondria nidifica* Harvey
Kylin, 1941; Dawson, 1954, 1959*c*; Dawson, Neushul & Wildman, 1960
La Jolla, Calif., to Bahía Asunción, Baja Calif.
- Chondria oppositoclada* Dawson
Dawson, 1946
La Jolla, Calif.
- Chondria pacifica* Setchell & Gardner
Dawson, 1954, 1958
Arroyo Hondo, Santa Barbara Co., Calif., to Bahía Tortuga, Baja Calif.
- Chondria platyclada* Taylor
Taylor, 1945 Dawson & Beaudette, 1960
Costa Rica; Isla Plata, Ecuador
- Chondria repens* Børgesen
Dawson, 1957*b*
Golfo Dulce, Costa Rica
- Chondria secundata* (J. Agardh) J. B. De Toni
J. B. De Toni, 1903
Santa Barbara, Calif.
- Laurencia clarionensis* Setchell & Gardner
Dawson, 1954
Isla Clarión, Revillagigedo Arch.
- Laurencia congesta* Taylor
Taylor, 1945
Galapagos Arch.
- Laurencia crispa* Hollenberg
Smith, 1944
Monterey Peninsula, Calif.
- Laurencia decidua* Dawson
Dawson, 1954*c*
Isla San Benedicto, Revillagigedo Arch.
- Laurencia densissima* Setchell & Gardner
Setchell & Gardner, 1937
Galapagos Arch.
- Laurencia diegoensis* Dawson
Hollenberg, 1948; Dawson, 1954, 1959*c*; Dawson, Neushul & Wildman, 1960
Carpinteria, Calif., to Punta Baja, Baja Calif.

- Laurencia estebaniana* Setchell & Gardner
Dawson, 1954
Isla Smith; Isla San Esteban, Gulf of Calif.
- Laurencia gardneri* Hollenberg
Smith, 1944
Monterey Peninsula, Calif.
- Laurencia hancockii* Dawson
Dawson, 1954
Bahía Agua Verde, Gulf of Calif.
- Laurencia humilis* Setchell & Gardner
Dawson, 1954
Isla Clarión, Revillagigedo Arch.
- Laurencia intricata* Lamouroux
Dawson, 1954
Bahía Petatlán, Guerrero
- Laurencia johnstonii* Setchell & Gardner
Dawson, 1954
Northern Gulf of Calif.
- Laurencia lajolla* Dawson
Dawson, 1958
La Jolla, Calif.
- Laurencia masonii* Setchell & Gardner
Dawson, 1954
Isla Guadalupe, Baja Calif.
- Laurencia mediocris* Setchell & Gardner
Setchell & Gardner, 1937
Galapagos Arch.
- Laurencia multibulba* Dawson, Neushul & Wildman
Dawson, Neushul & Wildman, 1960a
Off Punta Hughes and Punta Entrada, Isla Magdalena, Baja Calif.
- Laurencia obtusa* (Hudson) Lamouroux var. *gracilis* Harvey
Taylor, 1945
Galapagos Arch.
- Laurencia obtusiuscula* Setchell & Gardner var. *obtusiuscula*
Dawson, 1949a, 1954, 1959; Dawson, Neushul & Wildman, 1960a
Near Punta Eugenio, Baja Calif.; Gulf of Calif. from Guaymas to San Jose del Cabo
- Laurencia obtusiuscula* var. *corymbifera* Setchell & Gardner, prox.
Taylor, 1945
Galapagos Arch.
- Laurencia obtusiuscula* var. *laxa* Setchell & Gardner
Dawson, 1959, 1954 (as *L. obtusiuscula*)
Southern Gulf of Calif.
- Laurencia oppositoclada* Taylor
Taylor, 1945
Galapagos Arch.
- Laurencia pacifica* Kylin
Smith, 1944; Dawson, 1954, 1959c
Pacific Grove, Calif., to Isla Magdalena, Baja Calif.
- Laurencia paniculata* (C. Agardh) J. Agardh
Dawson, 1954
Bahía Gonzaga; Guaymas to Bahía Agua Verde, Gulf of Calif.
- Laurencia papillosa* var. *pacifica* Setchell & Gardner
Dawson, 1954, 1959
Isla Guadalupe; southern Gulf of Calif.
- Laurencia peninsularis* Taylor
Dawson, 1954
Cabo San Lazaro, Baja Calif.
- Laurencia richardsii* Dawson
Dawson, 1954c
Isla San Benedicto, Revillagigedo Arch.
- Laurencia scrippsensis* Dawson
Dawson, 1954, 1954c
La Jolla, Calif., to Isla Magdalena, Baja Calif.; Isla San Benedicto, Revillagigedo Arch.

- Laurencia sinicola* Setchell & Gardner
Dawson, 1954, 1959
Southern Gulf of Calif.
- Laurencia synderae* Dawson
Dawson, 1954, 1954a
Santa Catalina I.; La Jolla, Calif.; Islas San Benito; Scammon Lagoon; Bahía Vizcaino, Baja Calif.
- Laurencia spectabilis* Postels & Ruprecht
Scagel, 1957; Dawson, 1959c
Sitka, Alaska, to northern Santa Barbara Co., Calif.
- Laurencia splendens* Hollenberg
Smith, 1944; Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960
Santa Cruz, Calif., to Punta Baja, Baja Calif.
- Laurencia subdisticha* Dawson, Neushul & Wildman
Dawson, Neushul & Wildman, 1960a
Islas San Benito, Baja Calif.; Isla Jicarón, Panamá
- Laurencia subopposita* (J. Agardh) Setchell
Dawson, 1944a, 1954; Dawson, Neushul & Wildman, 1960, 1960a
La Jolla, Calif., to Punta Eugenio, Baja Calif.
- Laurencia turbinata* Setchell & Gardner
Setchell & Gardner, 1937
Isla San Martín, Baja Calif.; Galapagos Arch.
- Laurencia voragina* Taylor
Dawson, 1954
White Friars I., Guerrero
- Erythrocytis saccata* (J. Agardh) Silva
Smith, 1944 (as *Ricardia saccata*); Silva, 1952; Dawson, 1954, 1954c
Pacific Grove, Calif., to Isla Guadalupe, Baja Calif.; Isla San Benedicto, Revillagigedo Arch.
- Janczewskia gardneri* Setchell & Gardner
Dawson, 1954; Scagel, 1957
Vancouver I., British Columbia, to Cabo Colnett, Baja Calif.
- Janczewskia lappacea* Setchell
Kylin, 1941; Dawson, 1954
San Pedro, Calif., to Cabo Colnett, Baja Calif.
- Janczewskia moriformis* Setchell
Setchell, 1914
Santa Monica, Calif.
- Janczewskia solmsii* Setchell & Guernsey
Dawson, 1954b, 1954
Redondo to San Diego, Calif.; Isla Guadalupe, Baja Calif.
- Rhodomela larix* (Turner) C. Agardh
Okamura, 1933; Scagel, 1957; Dawson, 1958, 1959c
Bering Sea to Government Point, Calif.
- Rhodomela lycopodioides* (Linnaeus) C. Agardh
Okamura, 1933; Scagel, 1957
Aleutian I., Alaska, to northern Wash.
- Rhodomela macrantha* (Kützing) Setchell
Tokida, 1949
Alaska; British Columbia
- Odonthalia aleutica* (Mertens) J. Agardh
Okamura, 1933
Aleutian I., Alaska
- Odonthalia dentata* (Linnaeus) Lyngbye
Setchell & Gardner, 1903; Tokida, 1949
Alaska to Victoria, British Columbia
- Odonthalia floccosa* (Esper) Falkenberg
Scagel, 1957
Southern British Columbia to Pismo Beach, Calif.
- Odonthalia kamtschatica* (Ruprecht) J. Agardh
Scagel, 1957
Alaska to Puget Sound, Wash.
- Odonthalia lyallii* (Harvey) J. Agardh
Okamura, 1933; Scagel, 1957
Alaska to northern Wash.; Oreg. ?
- Odonthalia oregana* Doty
Doty, 1947
Curry Co., Oreg.

Odonthalia washingtoniensis Kylin

Scagel, 1957

Hope I., British Columbia, to Coos Bay, Oreg.

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