

Catalog of Marine Benthic Algae from New Caledonia

CLAIRE GARRIGUE

ORSTOM, BP A5, Noumea, New Caledonia

ROY T. TSUDA

Marine Laboratory, University of Guam

UOG Station, Mangilao, Guam 96923

Abstract—A catalog of the marine benthic algae (Chlorophyta, Phaeophyta and Rhodophyta) reported from New Caledonia is presented in two sections—I. Classification; II. Checklist with references and localities. There are 35 genera, 130 species of green algae; 23 genera, 59 species of brown algae; and 79 genera, 147 species of red algae which represent a rich algal flora for the subtropics.

Introduction

This New Caledonian benthic algal catalog consists of two sections, and generally follows the format as presented by Tsuda and Wray (1977) for Micronesian benthic algae and by Payri and Meinesz (1985) for French Polynesian benthic algae. The first section (I. Classification) provides a list of the classes, orders, families and genera of those marine benthic algae within the Divisions Chlorophyta, Phaeophyta and Rhodophyta reported from New Caledonia.

The second section (II. Checklist with References and Localities) provides an alphabetized checklist of all taxa (i.e., species, varieties and forms) within the three Divisions reported from publications up to 1987. Each taxon is followed by the name of the author(s) who reports it from New Caledonia, the year of publication, and the collection site (if known).

The New Caledonian specimens are located in various herbaria—ORSTOM herbarium and C. Garrigue's herbarium, ORSTOM (Institut Francais de Recherche Scientifique pour le Developpement en Cooperation), Noumea; E. Vieillard's herbarium, Museum National d'Histoire Naturelle, Paris (PC), and University of Caen (CN); G. Valet's herbarium, Balansa's herbarium, M. Denizot's herbarium, Paris (PC); F. T. Kuetzing's herbarium, Rijksherbarium, Leiden (L); A. Le Jolis' herbarium, Cherbourg (CHE); and University of Guam herbarium (GUAM). Those specimens cited by May (1953, 1966), based on collections by Mrs. R. Catala, are thought to be lost, and New Caledonian specimens in A. Grunow's herbarium were among those destroyed in a fire in Berlin during the Second World War.

An alphabetized listing of all references pertaining to the marine benthic algae, excluding the Cyanophyta, of New Caledonia is provided. The authors would greatly appreciate readers calling our attention to any references which we have not included.

HISTORY OF PHYCOLOGY IN NEW CALEDONIA: Although 60 references are cited in this bibliography, only 12 papers represent studies which focus efforts on the marine benthic algae of New Caledonia. Kuetzing (1863b–1869) is credited with the first published records of New Caledonian algae based on E. Vieillard's collections. Fifty-three years later, Gepp (1922) published a listing of 18 algal species which were collected from the Ile des Pins. In an ecological study of an island off Noumea, Catala (1950) lists 46 species of marine benthic algae. During the same period, Mrs. R. Catala established a herbarium which included 478 algal specimens; these collections were studied and reported by May (1953, 1966).

Based on specimens collected during the Singer-Polignac Expedition during 1960 to 1963, Denizot (1963) discussed the biogeography of the marine benthic algae of New Caledonia, and provided a detailed study (Denizot, 1965) of *Apjohnia laete-virens* Harvey and the newly described species *Bellotia simplex* Denizot. Through the works of Valet (1966, 1968, 1969, 1976), the marine benthic Chlorophyta of New Caledonia are well documented.

In 1977, ORSTOM launched a five-year program on the natural products of marine origin (SNOM). The project yielded a large collection of marine benthic algae which formed the basis of the doctoral thesis of the first author of this paper (Garrigue 1985). A multidisciplinary study of the New Caledonia lagoon, begun in 1984, provided additional algal specimens which are still being studied (Garrigue, 1987).

I. Classification

Division CHLOROPHYTA (green algae)

Class Chlorophyceae

Order Ulotrichales

Family Ulvaceae (*Enteromorpha*, *Ulva*)

Order Cladophorales

Family Anadyomenaceae (*Anadyomene*, *Microdictyon*)

Family Cladophoraceae (*Chaetomorpha*, *Cladophora*, *Rhizoclonium*)

Order Caulerpales

Family Bryopsidaceae (*Bryopsis*, *Trichosolen*)

Family Caulerpaceae (*Caulerpa*)

Family Codiaceae (*Avrainvillea*, *Chlorodesmis*, *Codium*, *Halimeda*, *Pseudocodium*, *Rhipilia*, *Rhipiliopsis*, *Tydemanina*, *Udotea*)

Order Siphonocladales

Family Boodleaceae (*Boodlea*, *Struvea*)

Family Siphonocladaceae (*Apjohnia*, *Cladophoropsis*, *Spongocladia*)

Family Valoniaceae (*Boergesenia*, *Dictyosphaeria*, *Ernodesmis*, *Valonia*, *Valoniopsis*, *Ventricaria*)

Order Dasycladales

Family Dasycladaceae (*Acetabularia*, *Bornetella*, *Dasycladus*, *Halicoryne*, *Neomeris*)

Division PHAEOPHYTA (brown algae)

Class Phaeophyceae

Order Sphacelariales

Family Sphacelariaceae (*Sphacelaria*)

Order Dictyotales

Family Dictyotaceae (*Cutleria*, *Dictyopteris*, *Dictyota*, *Distromium*, *Lobophora*,
Padina, *Spatoglossum*, *Stypopodium*, *Taonia*, *Zonaria*)

Order Chordariales

Family Chordariaceae (*Cladosiphon*)Family Spermatochnaceae (*Spermatochnus*)

Order Scytosiphonales

Family Scytosiphonaceae (*Colpomenia*, *Hydroclathrus*)

Order Dictyosiphonales

Family Chnoosporaceae (*Chnoospora*)

Order Sporochneales

Family Sporochneaceae (*Bellotia*, *Nereia*, *Sporochneus*)

Order Fucales

Family Sargassaceae (*Cystophyllum*, *Hormophysa*, *Sargassum*, *Turbinaria*)

Division RHODOPHYTA (red algae)

Class Florideophyceae

Order Nemaliales

Family Bonnemaisoniaceae (*Asparagopsis*)Family Galaxauraceae (*Actinotrichia*, *Galaxaura*, *Sciniaia*)Family Liagoraceae (*Dermonema*, *Liagora*, *Trichogloea*)Family Nemaliaceae (*Nemalion*)

Order Gelidiales

Family Gelidiaceae (*Beckerella*, *Gelidiella*, *Gelidium*, *Pterocladia*)

Order Cryptonemiales

Family Corallinaceae (*Amphiroa*, *Cheilosporum*, *Fosliella*, *Jania*, *Lithophyllum*,
Lithothamnion, *Mastophora*, *Neogoniolithon*, *Porolithon*, *Riquetophycus*)Family Cryptonemiaceae (*Halymenia*, *Prionitis*)Family Dumontiaceae (*Gibsmithia*)Family Peyssoneliaceae (*Cruoriella*, *Ethelia*, *Peyssonelia*)Family Polyideaceae (*Rhodopeltis*)Family Rhizophyllidaceae (*Carpopeltis*, *Portieria*)

Order Gigartinales

Family Caulacanthaceae (*Catenella*)Family Gigartinaceae (*Chondrus*, *Gigartina*)Family Gracilariaceae (*Ceratodictyon*, *Gelidiopsis*, *Gracilaria*, *Melanthalia*)Family Grateloupiaceae (*Polyopes*, *Prionitis*)Family Hypneaceae (*Hypnea*)Family Nemastomataceae (*Nemastoma*, *Predaea*, *Titanophora*)Family Phacelocarpaceae (*Phacelocarpus*)Family Plocamiaceae (*Plocamium*)Family Rhabdoniaceae (*Erythroclonium*)Family Solieriaceae (*Callophycus*, *Eucheuma*, *Sarconema*, *Solieria*)

Order Rhodymeniales

Family Champiaceae (*Champia*)Family Rhodymeniaceae (*Botryocladia*, *Chrysiomenia*)

Order Ceramiales

Family Ceramiaceae (*Callithamnion*, *Campylaephora*, *Centroceras*, *Ceramium*, *Griffithsia*, *Mesothamnion*, *Spyridia*, *Wrangelia*)Family Dasyaceae (*Dasya*, *Thuretia*)Family Delesseriaceae (*Caloglossa*, *Martensia*, *Vanvoorstia*)Family Rhodomelaceae (*Acanthophora*, *Amansia*, *Bostrychia*, *Chondria*, *Digenia*, *Laurencia*, *Leveillea*, *Neurymenia*, *Odonthalia*, *Polysiphonia*, *Tolypiocladia*, *Vidalia*)

II. Species with Reference and Localities

DIVISION CHLOROPHYTA

- Acetabularia clavata* Yamada; Valet (1969): ile aux Canards.
- Acetabularia dentata* Solms-Laubach; May (1966); Valet (1968): Tipindje, Wagap.
- Acetabularia exigua* Solms-Laubach; Valet (1969): ile aux Canards.
- Acetabularia kilneri* J. Ag.; Catala (1950): ile aux Canards; May (1953): Anse Vata; Valet (1968): Plum, Magenta, Tipindje, Wagap.
- Acetabularia penicillus* (R. Br.) J. Ag.; Gepp (1922): Ouemo.
- Anadyomene* sp.; Garrigue (1987): SW lagoon.
- Apjohnia laete-virens* Harv.; Denizot (1965): Kuto (ile des Pins), recif Nokanhui, Ilot Du Ana, Kutuma; Garrigue (1985): ilot Brosse (ile des Pins), Goro; Garrigue (1987): SW lagoon.
- Apjohnia scoparia* Valet; Kuetzing (1863a, as *Struvea scoparia*): ile des Pins; Valet (1976).
- Avrainvillea asarifolia* Boerg.; Garrigue (1987): SW lagoon.
- Avrainvillea erecta* (Berk.) Gepp and Gepp; Valet (1968): Bourail; Garrigue (1985): recif U.
- Avrainvillea lacerata* (Harv.) J. Ag.; Valet (1968): Ricaudy; Garrigue (1985): St. Vincent.
- Avrainvillea mazei* Murray and Boodle; Valet (1968): Noumea.
- Avrainvillea nigricans* Decaisne; Laboute and Magnier (1978); Niel (1982); Garrigue (1985): recif U.
- Avrainvillea obscura* (C. Ag.) J. Ag.; Garrigue (1985): Balabio.
- Avrainvillea ridleyi* Gepp and Gepp; Olsen-Stojkovich (1985): Baie de Prony.
- Boergesenia forbesii* (Harv.) Feldmann; May (1953): Anse Vata; Valet (1968): recif Ricaudy; Garrigue (1985): Banc Gail; Garrigue (1987): SW lagoon.
- Boodlea coacta* (Dickie) Murray and Boodle; May (1953): Anse Vata, ilot Grand Mato.
- Boodlea composita* (Harv.) Brand; Yamada (1926, as *B. kaenaena*); Valet (1968): recif Ricaudy, Plum, Wagap.
- Bornetella capitata* (Harv.) J. Ag.; May (1953): Mont Dore; Valet (1968): Ouemo, ile aux Canards.
- Bornetella nitida* (Harv.) Munier-Chalmas; Valet (1968): Messioncoue.; Garrigue (1985): Tiari.

- Bornetella oligospora* Solms-Laubach; May (1953): Anse Vata; Valet (1968): recif Ricaudy, Ouemo, Plum.
- Bornetella sphaerica* (Zanard.) Solms-Laubach; Valet (1969): ile aux Canards; Garrigue (1985): Tiari.
- Bryopsis harveyana* J. Ag.; May (1966).
- Bryopsis pennata* Lamour.; Garrigue (1985): ile des Pins, Unia.
- Bryopsis plumosa* C. Ag.; May (1953): ilot Tilguit; Garrigue (1985): fausse passe de Uitoe.
- Bryopsis ramulosa* Mont.; May (1953): Anse Vata.
- Bryopsis* sp.; Valet (1968): baie des Tortues.
- Caulerpa ambigua* Okam. var. *dichotoma* Eubank; Garrigue (1985): recif Dumbea.
- Caulerpa annulata* Lucas; Garrigue (1985, as *C. racemosa*): Goro; Garrigue (1987): SW lagoon.
- Caulerpa bikinensis* Taylor; Garrigue (1985): ilot Yande; Niel (1983); Garrigue (1987): SW lagoon.
- Caulerpa biserrulata* Sonder; Garrigue (1985, as *C. brachypus*): Goro.
- Caulerpa brachypus* Harv.; Yamada (1926); May (1953): Baye, Tiare; Valet (1968): Noumea, Pointe Magnin, recif Ricaudy; Garrigue (1985): recif Ana, canal Woodin, recif Dumbea; Niel (1983); Garrigue (1987): SW lagoon.
- Caulerpa crassifolia* (C. Ag.) J. Ag.; Garrigue (1985): recif Ana.
- Caulerpa cupressoides* (West) C. Ag.; Catala (1950): ile aux Canards; Niel (1982).
var. *ericifolia* (Turner) W.v. Bosse; May (1953): recif Ricaudy; Valet (1968): recif Ricaudy, Anse Vata, Magenta; Garrigue (1985): plateau de Koniene.
- var. *lycopodium* (J. Ag.) W.v. Bosse; May (1953): Anse Vata; Garrigue (1985): chenal ilot Maitre; Niel (1983); Garrigue (1987): SW lagoon.
- Caulerpa falcifolia* Bailey and Harvey; Niel (1983, as *C. taxifolia* var. *falcifolia*).
- Caulerpa fastigiata* Mont.; May (1966).
- Caulerpa fergusonii* Murray; Garrigue (1987): SW lagoon.
- Caulerpa filicoides* Yamada; Garrigue (1985): St. Vincent, Ouvea Pleiades Nord.
- Caulerpa lentillifera* J. Ag.; Farghaly (1980).
var. *condensata* Yamada; Garrigue (1985, as *C. racemosa*): ile des Pins.
- Caulerpa lessoni* Bory; Yamada (1926).
- Caulerpa macrodisca* Decaisne; Garrigue (1985, as *C. peltata*): ile des Pins.
- Caulerpa microphysa* (W.v. Bosse) Feldmann; Kuetzing (1863a, as *Chauvinia microphysa*); Denizot (1963).
- Caulerpa nummularia* (Harv.) Reinke; May (1953): ilot Signal, ilot Tilguit, ilot Grand Mato.
- Caulerpa okamurai* W.v. Bosse; Garrigue (1985): Basse Garnault; Garrigue (1987): SW lagoon.
- Caulerpa racemosa* (Forssk.) J. Ag.; Garrigue (1985): iles Surprises, plateau de Napias, recif Cimenia, recif Dumbea; Niel (1983); Garrigue (1987): SW lagoon.
var. *clavifera* (Turner) W.v. Bosse; Valet (1968): Noumea, baie des Citrons; Garrigue (1985): ile aux Canards.
- var. *corynephora* (Mont.) W.v. Bosse; Valet (1968): Ponandou; Niel (1983); Garrigue (1985, as *C. corynephora*): ile des Pins; Garrigue (1987): SW lagoon.

- var. *laete-virens* (Mont.) W.v. Bosse; May (1953): ilot Signal, ile aux Canards; Valet (1968): Ponandou.
- var. *lamourouxii* (Turner) W.v. Bosse; Yamada (1926); Garrigue (1985, as *C. brachypus*): Porc-epic.
- var. *macrophysa* (Kuetz.) Taylor; Niel (1983).
- var. *peltata* (Lamx.) Eubank; Yamada (1926); May (1953): Anse Vata, ilot Grand Mato; Niel (1983) and Niel (1983, as *C. peltata* var. *peltata*); Garrigue (1987): SW lagoon.
- var. *uvifera* (C. Ag.) J. Ag.; Yamada (1926); May (1953): Anse Vata; Valet (1968): recif Ricaudy, Lifou; Niel (1983); Garrigue (1985): Napias.
- Caulerpa sedoides* (R. Br.) C. Ag.
 f. *crassicaulis* J. Ag.; Garrigue (1985, as *C. racemosa*): recif Ana.
 f. *novae-zelandiae* Chapman; Garrigue (1987): SW lagoon.
- Caulerpa serrulata* (Forssk.) J. Ag.; Yamada (1926); Denizot (1963); Garrigue (1985): Nouville, ile des Pins, Ouvea Pleiades Nord; Niel (1983); Garrigue (1987): SW lagoon.
 f. *typica* (W.v. Bosse) Gilbert; May (1953): ile aux Canards, recif Ricaudy; Valet (1968): Timbia, recif Ricaudy, Touho.
 f. *spiralis* (W.v. Bosse) Gilbert; Weber van Bosse (1898); Valet (1968): Timbia, recif Ricaudy.
 f. *serrulata* W.v. Bosse; Weber van Bosse (1898); Valet (1968).
- Caulerpa sertularioides* (Gmel.) Howe; Yamada (1926); Valet (1968): Noumea, recif Ricaudy, Baie des Tortues; Laboute and Magnier (1978); Niel (1982); Garrigue (1985): N lagoon, St. Vincent; Garrigue (1987): SW lagoon.
- Caulerpa taxifolia* (Vahl) C. Ag.; Yamada (1926); Valet (1968): recif Ricaudy; Garrigue (1985): chenal ile aux Canards; Garrigue (1987): SW lagoon.
- Caulerpa urvillianiana* Mont.; Catala (1950): ile aux Canards; Valet (1968): recif Ricaudy, Lifou; Garrigue (1985): ile des Pins, Koumac; Garrigue (1987): SW lagoon.
 var. *typica* (Mont.) W.v. Bosse; May (1953): Anse Vata.
 f. *serrata* (Sonder) W.v. Bosse; Weber van Bosse (1898).
- Caulerpa verticillata* J. Ag.; Valet (1968): Touho; Niel (1983); Garrigue (1985).
- Caulerpa vieillardii* Kuetz.; Kuetzing (1863a): ile des Pins.
- Caulerpa webbiana* Mont.; Yamada (1926); Niel (1983); Garrigue (1987): SW lagoon.
 var. *pickeringii* (Harv. and Bail.) Eubank; Garrigue (1985): Recif Buende.
 f. *dichotoma* Denizot (1963).
 f. *tomentella* (Harv.) W.v. Bosse; May (1953): ilot Tilguit.
- Chaetomorpha antennina* (Bory) Kuetz.; Valet (1968): baie des tortues.
- Chaetomorpha linum* (Muller) Kuetz.; Catala (1950): ile aux Canards.
- Chaetomorpha natalensis* Hering; Gepp (1922): Ouemo.
- Chlorodesmis caespitosa* J. Ag.; Garrigue (1985): Yate.
- Chlorodesmis fastigiata* (C. Ag.) Ducker; Kuetzing (1863a, as *C. comosa*); in De Toni (1889, as *C. comosa*); Yamada (1926, as *C. comosa*); Catala (1950, as *C. comosa*): ile aux Canards; May (1953, as *C. comosa*): Anse Vata; Ducker (1967, as *C. comosa*): canal de la Havanah; Valet (1968, as *C. comosa*): Ponandou, Port-Bouquet, Cap des Pins (Lifou); Ducker (1969); Laboute and Magnier (1978); Garrigue (1985): iles Surprises.

- Chlorodesmis penicillata* Farghaly; Farghaly (1980): ile des Pins.
- Cladophora feredayi* Harv.; May (1953): Ricaudy, Mont Dore.
- Cladophora (Aegagrophila) physarthra* Kuetz.; Kuetzing (1863a).
- Cladophora radians* Kuetz.; Kuetzing (1863a): ile des Pins.
- Cladophora socialis* Kuetz.; Yamada (1926).
- Cladophoropsis herpestica* (Mont.) Howe; Valet (1968): recif Ricaudy, Plum, Noumea (freshwater); Garrigue (1985): ilot Maitre; Garrigue (1987): SW lagoon.
- Cladophoropsis membranacea* (C. Ag.) Boerg.; May (1953): recif Ricaudy, Mont Dore.
- Cladophoropsis zollingeri* (Kuetz.) Boerg.; Valet (1968): Baie des tortues, Lifou.
- Codium arabicum* Kuetz.; May (1966).
- Codium bulbopilum* Setch.; Catala (1950): ile aux Canards; May (1953): Anse Vata.
- Codium divaricatum* Gepp.; Valet (1968): recif Ricaudy.
- Codium foveolatum* Howe; Catala (1950): ile aux Canards.
- Codium geppii* Schmidt; Valet (1968): recif Ricaudy; Laboute and Magnier (1978).
- Codium mamillosum* Harv.; Garrigue (1985): Canal Woodin; Garrigue (1987): SW lagoon.
- Codium spongiosum* Harv.; Gepp (1922): Ouemo; Egerod (1952); May (1953): Anse Vata, ile aux Canards; Valet (1968): Anse Vata; Garrigue (1985): Cimenia; Garrigue (1987): SW lagoon.
- Dasycladus australasicus* Sonder; Catala (1950): ile aux Canards; May (1953): Anse Vata, ile aux Canards.
- Dictyosphaeria cavernosa* (Forssk.) Boerg.; Gepp (1922): Ouemo; Yamada (1926, as *D. favulosa*); May (1966); Valet (1968): recif Ricaudy; Garrigue (1985): Baie des tortues; Garrigue (1987): SW lagoon.
- Dictyosphaeria ulvacea* Kuetz.; Kuetzing (1863a): Balade.
- Dictyosphaeria versluisii* W.v. Bosse; Catala (1950): ile aux Canards; May (1953): Anse Vata; Valet (1968): recif Ricaudy; Garrigue (1985): Plateau d'Amoss; Garrigue (1987): SW lagoon.
- Enteromorpha compressa* (L.) Grev.; Gepp (1922): Ouemo.
- Enteromorpha intestinalis* (L.) Link; May (1953): Anse Vata, ile aux Canards, on boat; Valet (1968): baie de la Moselle.
- Enteromorpha plumosa* Kuetz.; May (1953): recif Ricaudy; Valet (1968): Ponerihouen.
- Enteromorpha* sp.; Valet (1968): canal de l'Hippodrome, Anse Vata.
- Ernodesmis verticillata* (Kuetz.) Boerg.; Valet (1968): recif Ricaudy, Wagap; Garrigue (1985); Garrigue (1987): SW lagoon.
- Halicoryne spicata* Kuetz.; Kuetzing (1863): Balade; Valet (1969): Ina, Baie de Boulari, Messioncoue.
- Halimeda copiosa* Goreau and Graham; Garrigue (1987, as *H. opuntia* v. *hederacea*.): SW lagoon.
- Halimeda cylindracea* Decaisne; Valet (1968): Timbia, ile aux Canards, Bourake, recif Ricaudy, Noumea; Laboute and Magnier (1978); Dandonneau *et al.* (1981); Niel (1982); Garrigue (1985); recif U; Garrigue (1987): SW lagoon.
- Halimeda discoidea* Decaisne; Garrigue (1985): recif Snark, anse Lavaissiere; Garrigue (1987): SW lagoon.
- Halimeda gigas* Taylor; Garrigue (1987): N lagoon.
- Halimeda gracilis* Harv.; Garrigue (1985): recif Kue.

- Halimeda incrassata* (Ellis) Lamour.; Yamada (1926); Catala (1950): ile aux Canards; May (1953): Anse Vata; Denizot (1963); Garrigue (1985): ilot Brun, baie de Prony, Yate, ilot Toupeti, ile Gouh; Garrigue (1987): SW lagoon.
- Halimeda macroloba* Decaisne; Yamada (1926); Catala (1950): ile aux Canards; May (1953): Anse Vata, recif Ricaudy; Denizot (1963); Valet (1968): Tonghouin, Timbia, recif Ricaudy, Touho, Noumea; Dandonneau *et al.* (1981); Niel (1982); Garrigue (1985): chenal ilot maitre and chenal ile aux Canards; Garrigue (1987): SW lagoon.
- Halimeda macrophysa* Askenasy; Garrigue (1985); Garrigue (1987): SW lagoon.
- Halimeda magnidisca* Noble; Noble (1986); Garrigue (1987): SW lagoon.
- Halimeda melanesica* Valet; Valet (1966): Lifou; Valet (1968): Lifou; Hillis-Colinvaux (1980); Garrigue (1987): SW lagoon.
- Halimeda opuntia* (L.) Lamour.; Gepp (1922): Ouemo; Yamada (1926); Denizot (1963); Valet (1968): recif Ricaudy, Touho, baie de Boulari, Ponandou, Nakety, Timbia; Garrigue (1985): baie de Prony, ile aux Canards, Cap Begat, Unia; Garrigue (1987): SW lagoon.
- Halimeda simulans* Howe; Valet (1968): recif Ricaudy, Timbia, Plum, Poe; Garrigue (1985): Le Cap; Garrigue (1987): SW lagoon.
- Halimeda taenicola* Taylor; Garrigue (1987): N lagoon.
- Halimeda tuna* (Ellis and Solander) Lamour.; Gepp (1922): Ouemo; Yamada (1926); Catala (1950): ile aux Canards; May (1953): Anse Vata, ilot Tilguit; Hillis (1959); Denizot (1963); Valet (1968): recif Ricaudy, ile aux Canards, Tonghouin, Plum, Ponandou, Tiouande, Wagap; Laboute and Magnier (1978); Catala (1979).
- Halimeda velasquezii* Taylor; Valet (1966); Plum, Lifou; Valet (1968).
- Microdictyon japonicum* Setch.; Garrigue (1985): chenal ilot Maitre; Garrigue (1987): SW lagoon.
- Microdictyon obscurum* J. Ag.; J. Agardh (1894): iles Loyautes.
- Microdictyon okamurai* Setch.; Setchell (1925): Lifou.
- Microdictyon setchellianum* Howe; May (1966); Garrigue (1985): Ouvea.
- Microdictyon thiebaultii* Setch.; Setchell (1926): Lifou; Valet (1968): Lifou.
- Neomeris annulata* Dickie; Valet (1969): Anse Vata, ile aux Canards.
- Neomeris bilimbata* Koster; Valet (1969): Ouemo.
- Neomeris mucosa* Howe; Valet (1968): baie de Boulari, Ouemo.
- Neomeris stipitata* Howe; Valet (1969): recif Ricaudy, Ouemo, Plum.
- Neomeris vanbosseae* Howe; Yamada (1926); May (1953): Anse Vata; Garrigue (1985): Le Cap.
- Pseudocodium* sp.; Garrigue (1987): SW lagoon.
- Rhipilia pusilla* (Womersley) Ducker; Farghaly (1980): Canala.
- Rhipilia tenaculosa* Gepp and Gepp; Garrigue (1985): recif Ioro; Garrigue (1987): SW lagoon.
- Rhipiliopsis novae-caledoniae* Farghaly and Denizot; Farghaly and Denizot (1979): ilot Infernal (Ile des Pins).
- Rhizoclonium hookeri* Kuetz.; Valet (1968): Anse Vata.
- Rhizoclonium implexum* (Dillwyn) Kuetz.; May (1953): Anse Vata, ile aux Canards.
- Spongocladia neocaledonica* Grunow; *in* De Toni (1889): Poro (identified by Grunow); May (1953): Anse Vata; Valet (1968): Anse Vata.

- Spongiocladia vaucheriaeformis* Areschoug; May (1953): Anse Vata, ilot du grand Mato; Garrigue (1985): Platier Ounia.
- Struvea deliculata* Kuetz.; Kuetzing (1866); Yamada (1926); May (1953): ilot Tilguit, Mont Dore; Valet (1968): Messioncoue, Noumea.
- Struvea* sp.; Garrigue (1985): Basse Garnault; Garrigue (1987): SW lagoon.
- Trichosolen myura* (J. Ag.) Taylor (author name uncertain); Garrigue (1985, as *Pseudobryopsis myura*): Fausse passe de Uitoe.
- Tydemania expeditionis* W.v. Bosse; Denizot and Farghaly (1981, as *T. gardinieri*): ilot Deguala; Garrigue (1985): Ouvea, ilot Koko, Lavaissiere.
- Udotea flabellum* (Ellis and Solander) Howe; Denizot (1963).
- Udotea geppii* Yamada; Garrigue (1985): ile aux Canards.
- Udotea javensis* (Mont.) Gepp and Gepp; May (1953): ilot Tilguit.
- Udotea orientalis* Yamada; May (1953): ilot Grand Mato; Garrigue (1985): ilot Tanle; Garrigue (1987): SW lagoon.
- Ulva fasciata* Kuetz.; May (1966).
- Ulva lactuca* L.; May (1953): On boat, Anse Vata; Valet (1968): canal de Hippodrome, Anse Vata, baie de la Moselle, baie des Tortues, Lifou.
- Valonia cladophora* Kuetz.; Kuetzing (1863a).
- Valonia fastigiata* Harv.; May (1953): Anse Vata; Valet (1968): recif Ricaudy; Garrigue (1985): Goro; Garrigue (1987): SW lagoon.
- Valoniopsis pachynema* (Martens) Boerg.; May (1953): Anse Vata, ilot Tilguit, recif Ricaudy; Valet (1968): baie des Tortues; Garrigue (1987): SW lagoon.
- Ventricaria ventricosa* (J. Ag.) Olsen and J. West; Valet (1968, as *Valonia ventricosa*); Garrigue (1985, as *Valonia ventricosa*) Ouvea; Garrigue (1987, as *Valonia ventricosa*): SW lagoon.
- DIVISION PHAEOPHYTA**
- Bellotia simplex* Denizot; Denizot (1965); Garrigue (1985): Chenal des 5 miles; Garrigue (1987): SW lagoon.
- Chnoospora implexa* (Hering) J. Ag.; May (1953): Anse Vata; Garrigue (1985): Gadji (ile des Pins).
- Cladosiphon novae-calendoniae* Kylin; Kylin (1940).
- Cladosiphon okamurans* Tokida; Garrigue (1985): Plateau de Koniene.
- Colpomenia sinuosa* (Roth) Derbes and Solier; May (1953): Anse Vata.
- Cutleria* sp.; Garrigue (1987): SW lagoon.
- Cystophyllum muricatum* (Turn.) J. Ag.; Gepp (1922): Ouemo; Catala (1950): ile aux Canards; May (1953): Anse Vata.
- Dictyopteris acrostichoides* (J. Ag.) May; May (1953): Anse Vata.
- Dictyopteris australis* Sonder; Catala (1950): ile aux Canards; May (1953): Anse Vata; Garrigue (1987): SW lagoon.
- Dictyopteris plagiogramma* (Mont.) Vickers; Garrigue (1987): SW lagoon.
- Dictyota acutiloba* J. Ag.; Garrigue (1987): SW lagoon.
- Dictyota bartayresii* Lamour.; Garrigue (1985): ilot Tanle.
- Dictyota dichotoma* (Hudson) Lamour.; Catala (1950): ile aux Canards; May (1953): Anse Vata, recif Ricaudy; Garrigue (1985): ilot Amere (Reserve Merlet), passe de Boulari.
- Dictyota furcellata* (C. Ag.) J. Ag.; Gepp (1922): Ouemo Bay.

- Dictyota vieillardii* Kuetz.; Kuetzing (1863a).
- Distromium flabellatum* Womersley; Garrigue (1985): passe de Boulari.
- Distromium* sp.; Garrigue (1985): recif Dumbea; Garrigue (1987): SW lagoon.
- Hormophysa triquetra* (L.) Kuetz.; Catala (1950): ile aux Canards; May (1953): Anse Vata; Garrigue (1987): SW lagoon.
- Hydroclathrus clathratus* (C. Ag.) Howe; Catala (1950): ile aux Canards; May (1953): Anse Vata; Valet (1972); Garrigue (1985): Gadji (ile des Pins).
- Lobophora variegata* (Lamour.) Womersley; Catala (1950): ile aux Canards; May (1953): Anse Vata, recif Ricaudy; Garrigue (1987): SW lagoon.
- Nereia* sp.; Garrigue (1985): Port-Boise; Garrigue (1987): SW lagoon.
- Padina pavonica* (L.) Thivy; Catala (1950): ile aux Canards; May (1953): Anse Vata.
- Padina tenuis* Bory; Catala (1950, as *P. commersonii*): ile aux Canards; May (1953, as *P. commersonii*): pointe Chaleix, Anse Vata.
- Sargassum albermarlense* Taylor; Catala (1950): ile aux Canards.
- Sargassum boryi* C. Ag. var. *angustissima* Grunow f. *neocaledonica* Grunow; Grunow (1915): ilot Freycinet, Noumea, Poro.
- Sargassum carpophyllum* J. Ag.; Grunow (1915).
var. *leptophylla* Grunow; In Askenasy (1888).
- Sargassum cinctum* J. Ag.; May (1953): Mont Dore.
- Sargassum coriifolium* J. Ag.; May (1966).
- Sargassum crassifolium* J. Ag.; Grunow (1915).
- Sargassum desvauxii* (Mertens) C. Ag.; May (1953): ile aux Canards.
- Sargassum duplicatum* J. Ag.; Garrigue (1985): Gadji (ile des Pins).
var. *noumeensis* Grunow; Grunow (1915): Noumea, Wagap.
- Sargassum echinocarpum* J. Ag. var. *vitiensis* Grunow; Schmidt (1928).
- Sargassum filifolium* C. Ag.; May (1953): Anse Vata.
- Sargassum fissifolium* (Mertens) C. Ag.; May (1953): Anse Vata, ile aux Canards.
- Sargassum flavicans* (Mertens) C. Ag.; May (1953): Anse Vata, ile aux Canards.
var. *moretonense* Grunow f. *glaucophylla* Grunow; Grunow (1915): ilot Freycinet.
- Sargassum ilicifolium* (Turner) C. Ag.; Grunow (1915).
- Sargassum lophocarpum* J. Ag.; Catala (1950): ile aux Canards; May (1953): ile aux Canards.
- Sargassum myriocystum* J. Ag.
f. *horridula* Grunow; Grunow (1915).
- Sargassum oligocystum* Mont.; Catala (1950, as *S. binderi*): ile aux Canards; May (1953, as *S. binderi*): Anse Vata.
- Sargassum polyacanthum* J. Ag.; May (1953): Anse Vata.
- Sargassum polycystum* C. Ag.; Grunow (1915, as *S. microphyllum*): Catala (1950): ile aux Canards.
- Sargassum scabripes* J. Ag.; Catala (1950): ile aux Canards; May (1953): Anse Vata.
- Sargassum spathulaefolium* J. Ag. var. *neocaledonica* Grunow; Grunow (1916).
- Sargassum spinuligerum* Sonder var. *novae-zelandiae* Grunow; Schmidt (1928); Lindauer et al. (1961).
- Sargassum stenophyllum* J. Ag.; May (1953): Anse Vata, ile aux Canards.

- Sargassum torvum* J. Ag.; May (1953).
Sargassum turbinarioides Grunow; Grunow (1915): Noumea.
Sargassum verruculosum (Mertens) C. Ag.; Catala (1950): ile aux Canards.
Spatoglossum asperum J. Ag.; Garrigue (1985): canal Woodin; Garrigue (1987): SW lagoon.
Spermatochnus paradoxus Kuetz.; Catala (1950): ile aux Canards; May (1953): Anse Vata.
Sphacelaria cornuta Sauvageau; Schmidt (1928).
Sphacelaria novae-caledoniae Sauvageau; Womersley (1967).
Sphacelaria rigidula Kuetz.; Gepp (1922, as *S. furcigera*): Baie Ouemo; May (1966, as *S. furcigera*).
Sphacelaria tribuloides Meneghini; Gepp (1922); Catala (1950): ile aux Canards; May (1953): Anse Vata.
Sporochnus sp.; Garrigue (1985): Baie Ire; Garrigue (1987): SW lagoon.
Stypopodium zonale (Lamour.) Papenf.; May (1953): Grand Mato.
Taonia australasica J. Ag.; Garrigue (1987): SW lagoon.
Turbinaria ornata (Turn.) J. Ag.; Gepp (1922): baie Ouemo; Catala (1950): ile aux Canards; May (1953): Anse Vata; Garrigue (1985): ilot Gabriel (Prony).
Zonaria sp.; Garrigue (1985); Abbott (Pacific Science Congress, oral presentation in 1988) reported *Z. stipitata* Tanaka and Nozawa from New Caledonia.
- DIVISION RHODOPHYTA**
- Acanthophora pacifica* (Setch.) Kraft; Garrigue (1985): recif Buende.
Acanthophora spicifera (Vahl) Boerg.; Gepp (1922): Ouemo; Catala (1950): ile aux Canards; May (1953): Anse Vata, recif Ricaudy; Garrigue (1985): Balabio; Garrigue (1987): SW lagoon.
Actinotrichia fragilis (Forssk.) Boerg.; May (1966).
Amansia glomerata C. Ag.; Kuetzing (1865, as *A. fasciculata*); May (1953): ilot Tilguit; Garrigue (1985): Unia; Garrigue (1987): SW lagoon.
Amphiroa anceps (Lamour.) Decaisne; May (1966).
Amphiroa foliacea Lamour.; May (1953): Grand Mato.
Amphiroa fragilissima (L.) Lamour.; May (1953): recif Ricaudy.
Amphiroa vanbossae Lemoine; Garrigue (1985): recif Ngoe.
Asparagopsis armata Harv.; May (1953): recif Ricaudy.
Asparagopsis taxiformis (Delile) Collins and Harvey; Garrigue (1985): Boulari.
Beckerella sp.; Garrigue (1985): fausse passe de Uitoe; Garrigue (1987): SW lagoon.
Bostrychia binderi Harv.; Kuetzing (1863a, as *B. vieillardii*); Post (1936).
Bostrychia moritziana (Sonder) J. Ag.; Post (1936).
Bostrychia radicans Mont.; Post (1936).
Bostrychia tenella (Vahl) J. Ag.; Post (1936); May (1953): ile aux Canards.
Bostrychia vaga Hooker and Harvey; Post (1936).
Botryocladia brownii (Harv.) Feldmann; Garrigue (1987): SW lagoon.
Botryocladia leptopoda (J. Ag.) Kylin; Garrigue (1985): canal Woodin; Garrigue (1987): SW lagoon.
Botryocladia occidentalis (Boerg.) Kylin; Garrigue (1987): SW lagoon.
Callithamnion vieillardii Kuetz.; Kuetzing (1863a, b).

- Callophycus serratus* (Harvey ex Kuetzing) Silva; May (1966, as *Thysanocladia serrata*); Garrigue (1985): fausse passe de Uitoe; Garrigue (1987): SW lagoon.
- Caloglossa bombayensis* Boerg.; Post (1936).
- Caloglossa vieillardii* (Kuetz.) Setch.; Kuetzing (1866, as *Hypoglossum vieillardii*).
- Campylaephora crassa* (Okam.) Okam.; Garrigue (1985): Lifou.
- Carpopeltis multicornis* (Kuetz.) Schmitz (author name uncertain); Kuetzing (1868, as *Gelidium multicornis*); May (1966).
- Catenella opuntia* Grev.; Post (1936).
- Centroceras clavulatum* (C. Ag.) Mont.; Gepp (1922): Ouemo; May (1953): ilot Tilguit.
- Ceramium flaccidum* (Kuetz.) Ardissonne; May (1953, as *C. gracillimum*): Grand Mato.
- Ceramium kuetzingianum* Grunow; Kuetzing (1863a, as *Gongroceras subtile*).
- Ceratodictyon spongiosum* Zanard.; Askenasy (1888, as *Marchesettia spongioides*); Schmidt (1928); May (1953): Anse Vata; Laboute and Magnier (1978).
- Champia parvula* (C. Ag.) Harv.; May (1966).
- Champia vieillardii* Kuetz.; Kuetzing (1866); Gepp (1922, as *C. compressa*); Dawson (1954).
- Cheilosporum cultratum* (Harv.) Areschoug; Garrigue (1985): plateau de Napias.
- Cheilosporum spectabile* Harv.; Grunow (1874); Schmidt (1928); May (1953): Baye.
- Chondria armata* (Kuetz.) Okam.; Kuetzing (1866, as *Lophura armata*): Wagap.
- Chondria dasyphylla* (Woodward) C. Ag.; Gepp (1922): Ouemo.
- Chondrus coccineus* Kuetz.; Kuetzing (1867): Wagap.
- Chrysomenia polyglandulosa* Okam.; Garrigue (1985): recif Ioro.
- Cruoriella dezwaanii* (W.v. Bosse) Denizot; Denizot (1968).
- Dasya* sp.; Garrigue (1985): Grotte Merlet.
- Dermonema frappieri* (Mont. and Millard) Boerg.; Kuetzing (1867, as *Gymnophloea gracilis*).
- Digenia simplex* (Wulf.) C. Ag.; Kuetzing (1865, as *D. vieillardii*); Catala (1950): ile aux Canards; May (1953): Anse Vata; Garrigue (1985); Garrigue (1987): SW lagoon.
- Erythroclonium muelleri* Sonder; Garrigue (1985): canal Woodin; Garrigue (1987): SW lagoon.
- Ethelia biradiata* W.v. Bosse; Denizot (1968).
- Eucheuma edule* (Kuetz.) Kuetz.; Kuetzing (1867, as *Chondrus edulis*).
- Eucheuma denticulatum* (Burman) Collins and Harvey; Kuetzing (1867, as *Grateloupia opposita*); Garrigue (1985): ile Ouen.
- Eucheuma gelatinae* (Esp.) J. Ag.; Kuetzing (1867, as *Grateloupia emarginata*): Wagap.
- Eucheuma speciosum* (Sonder) J. Ag.; May (1953): Grand Mato.
- Fosliella farinosa* (Lamour.) Howe; May (1953): Anse Vata.
- Galaxaura cohaerens* Kjellman; Kjellman (1900).
- Galaxaura elongata* J. Ag.; Garrigue (1985): Le Cap; Garrigue (1987): SW lagoon.
- Galaxaura fasciculata* Kjellman; May (1953): Anse Vata.
- Galaxaura hystrix* Kjellman; Garrigue (1985): Goro; Garrigue (1987): SW lagoon.
- Galaxaura lapidescens* (Solander.) Lamour.; Catala (1950): ile aux Canards.
- Galaxaura oblongata* (Ellis and Solander) Lamour.; Kjellmann (1900 as *G. fastigiata*); May (1953, as *G. oblongata* and *G. fastigiata*): Anse Vata, ile aux Canards; Garrigue (1985, as *G. fastigiata*): Boulari.

- Galaxaura obtusata* (Ellis and Solander) Lamour.; Garrigue (1985): ilot Tilguit; Garrigue (1987): SW lagoon.
- Galaxaura rudis* Kjellman; Garrigue (1987): SW lagoon.
- Galaxaura rugosa* (Ellis and Solander) Lamour.; May (1953, as *G. glabriuscula*); ilot Tilguit.
- Galaxaura ventricosa* Kjellman; May (1953): ilot Tilguit.
- Gelidiella acerosa* (Forssk.) Feldmann and Hamel; Kuetzing (1863a, as *Gelidium ramelliferum*); Kuetzing (1868, as *Echinocaulon ramelliferum*); May (1953): ile aux Canards, recif Ricaudy, Anse Vata.
- Gelidiopsis acrocarpa* (Harv.) Schmitz; May (1953): Anse Vata, Baye, Mont Dore.
- Gelidiopsis intricata* (C. Ag.) Vickers; Kuetzing (1868, as *Acrocarpus capitatus*); May (1953): ilot Signal, recif Ricaudy.
- Gelidiopsis repens* (Kuetz.) Schm.; Kuetzing (1868, as *Gelidium repens*): Wagap.
- Gelidium deliculatum* (Kuetz.) Crouan and Crouan; Kuetzing (1868, as *Acrocarpus deliculatus*).
- Gelidium samoense* Reinbold; Kuetzing (1868, as *Sphaerococcus angustifolius*.)
- Gibsmithia hawaiiensis* Doty; Garrigue (1985): Ouvea.
- Gigartina nana* (C. Ag.) J. Ag.; Kuetzing (1868).
- Gracilaria arcuata* Zanardini; Garrigue (1985): Tiari.
- Gracilaria corniculata* (R. Br.) J. Ag.; Kuetzing (1868, as *Sphaerococcus spinulosus*); Wagap.
- Gracilaria denticulata* (Kuetz.) W.v. Bosse; Kuetzing (1869, as *Sphaerococcus denticulatus*).
- Gracilaria edulis* (Gmelin) Silva; Kuetzing (1868, as *Sphaerococcus lemania*); May (1953, as *G. lichenoides* f. *taenioides*): ile aux Canards, Anse Vata, recif Ricaudy.
- Gracilaria obtusa* (Grev.) J. Ag.; Kuetzing (1868, as *Sphaerococcus canaliculatus*): Wagap.
- Gracilaria salicornia* (Mont.) Grev.; J. Agardh (1876, as *Corallopsis opuntia*); Schmidt (1928, as *Corallopsis opuntia*); May (1953): Anse Vata, recif Ricaudy.
- Gracilaria spinescens* (Kuetz.) J. Ag.; Kuetzing (1868, as *Sphaerococcus spinescens*).
- Gracilaria verrucosa* (Huds.) Papenf.; Gepp (1922, as *G. confervoides*): Ouemo.
- Griffithsia heteromorpha* Kuetz.; Kuetzing (1863a, b); Grunow (1874).
- Halymenia* sp.; Garrigue (1985): Canal Woodin, recif Dumbea, recif Ngoe.
- Hypnea cenomyce* J. Ag.; May (1953): Anse Vata, ilot Tilguit.
- Hypnea cervicornis* J. Ag.; Garrigue (1985): Balabio.
- Hypnea esperi* Bory; May (1953): ile aux Canards.
- Hypnea pannosa* J. Ag.; Askenasy (1888); Grunow (1874).
- Hypnea vaga* Kuetz.; Kuetzing (1863a): Balade.
- Hypnea valentiae* (Turn.) Mont.; May (1953): Anse Vata, recif Ricaudy.
- Jania adhaerens* Lamour.; Garrigue (1985, as *J. capillacea*): Ounia.
- Jania decussato-dichotoma* (Yendo) Yendo; Garrigue (1985): ilot Casy.
- Laurencia brongniartii* J. Ag.; Kuetzing (1865); Kuetzing (1865 as *L. calliptera*); Catala (1950): ile aux Canards; May (1953): Anse Vata, recif Ricaudy, ile aux Canards, Grand Mato; Garrigue (1985): Goro; Garrigue (1987): SW lagoon.
- Laurencia decumbens* Kuetz.; Kuetzing (1863a).

- Laurencia dendroidea* J. Ag.; Kuetzing (1865, as *L. vieillardii*).
Laurencia flagellifera Kuetz.; Kuetzing (1865).
Laurencia obtusa Hudson; Catala (1950): ile aux Canards; Yamada (1931); May (1953): Anse Vata, ile aux Canards, recif Ricaudy, Grand Mato.
Laurencia paniculata (C. Ag.) J. Ag.; Kuetzing (1865, as *L. thuyoides*).
Laurencia perforata (Bory) Mont.; Kuetzing (1863a, as *L. vaga*).
Leveillea jungermannioides (Mart. and Hering) Harvey; Gepp (1922): Ouemo; May (1953): Anse Vata.
Liagora annulata J. Ag.; Grunow (1874); Weber van Bosse (1921); May (1953): Anse Vata.
Liagora boergesenii Yamada; Garrigue (1985): Goro.
Liagora ceranoides Lamour.; Catala (1950, as *L. leprosa*): ile aux Canards; May (1953): Anse Vata, recif Ricaudy, ilot Tilguit.
Liagora farinosa Lamour.; Garrigue (1985): Kuanne.
Liagora rugosa Zanardini var. *vieillardii* Grunow; Grunow (1874); Weber van Bosse (1921); May (1953): ile aux Canards.
Liagora tomentosa Kuetz.; Kuetzing (1863a, b).
Lithophyllum sp.; May (1953): recif Ricaudy.
Lithothamnion sp.; May (1953): Grand Mato, recif Ricaudy.
Martensia elegans Hering; May (1953, as *Mesostrema elegans*): Grand Mato; Denizot (1963).
Martensia flabelliformis Harvey; May (1966).
Mastophora rosea (C. Ag.) Setch.; Garrigue (1985): baie de Ugo (ile des Pins).
Melanthalia concinna (R. Br.) J. Ag.; Kuetzing (1869, as *M. fastigiata*); Chapman (1979); Garrigue (1987): SW lagoon.
Melanthalia obtusata (Labill.) J. Ag.; May (1966).
var. *abscissa* (Turn.) Chapman; Chapman (1979); Garrigue (1985): recif Boulari; Garrigue (1987): SW lagoon.
var. *jaubertiana* (Mont.) Chapman; Chapman (1979); Garrigue 1985.
Melanthalia vieillardii Kuetz.; Kuetzing (1863a).
Mesothamnion caribaeum Boerg.; Garrigue (1985): recif Dumbea.
Nemalion filicoides Kuetz.; Kuetzing (1866): Wagap.
Nemastoma sp.; Garrigue (1985): canal Woodin; Garrigue (1987): SW lagoon.
Neogoniolithon fosliei (Heydrich) Setchell and Mason; May (1953 as *Goniolithon fosliei*): Grand Mato.
Neurymenia fraxinifolia (Mert.) J. Ag.; Kuetzing (1864, as *Epineuron fraxinifolium*); May (1953): Baye; Garrigue (1985): canal Woodin; Garrigue (1987): SW lagoon.
Odonthalia floccosa (Esp.) Falkenberg; Kuetzing (1868).
Peyssonelia capensis Mont.; May (1966, as *P. gunniana*).
Peyssonelia neocaledonica Kuetz.; Kuetzing (1869); Denizot (1968).
Phacelocarpus sp.; Garrigue (1987): SW lagoon.
Plocamium botryoides Kuetz.; Kuetzing (1866).
Plocamium cartilagineum (L.) Dixon. var. *leptophyllum* Kuetz.; May (1953, as *P. cartilagineum*): recif Ricaudy.
Plocamium hamatum J. Ag.; Garrigue (1985).
Polyopes ligulatus (Harv.) J. Ag.; May (1953): Baye.

- Polysiphonia pauperula* Kuetz.; Kuetzing (1863b).
Polysiphonia polyphysa Kuetz.; Kuetzing (1863b).
Porolithon sp.; Denizot (1968).
Portieria hornemannii (Lyngbye) Silva; Garrigue (1985, as *Desmia hornemannii*): Goro; Garrigue (1987, as *Desmia hornemannii*): SW lagoon.
Portieria kilneri (J. Ag.) Silva; May (1953, as *Desmia kilneri*): Anse Vata, ilot Tilguit.
Portieria spinulosa (Kuetz.) Silva; Kuetzing (1868, as *Chondrococcus spinulosus*).
Predaea sp.; Garrigue (1985): recif Ndo.
Prionitis obtusata Sonder; Grunow (1874); May (1953, as *Zanardinula obtusa*): Baye.
Pterocladia caerulescens (Kuetz.) Santelices; Kuetzing (1868, as *Gelidium caerulescens*): Wagap.
Pterocladia capillacea (Gmel.) Born; May (1953): Tiare.
Rhodopeltis borealis Yamada; Garrigue (1985): canal Woodin, grotte Merlet; Garrigue (1987): SW lagoon.
Riquetophycus polypus Denizot; Denizot (1968): recif Mengalia (ile des Pins).
Sarconema sp.; Garrigue (1985): ile des Pins.
Scinaia sp.; Garrigue (1985): fausse passe de Uitoe.
Solieria mollis (Kylin) Harv.; Garrigue (1985): canal Woodin.
Spyridia filamentosa (Wulf.) Harv.; Catala (1950): ile aux Carnards; May (1953): Anse Vata, recif Ricaudy, Grand Mato.
Thuretia sp.; Garrigue (1987): SW lagoon.
Titanophora pikeana (Dickie) Feldmann; Garrigue (1985): fausse passe de Uitoe.
Titanophora weberae Boerg.; May (1953): ilot Tilguit.
Tolypiocladia calodictyon (Ag.) Schmitz; Garrigue (1985): Crouy and Nge; Garrigue (1987): SW lagoon.
Tolypiocladia condensata (W.v. Bosse) Silva; Weber van Bosse (1921, as *Rochera condensata*): Wagap.
Tolypiocladia glomerulata (C. Ag.) Schmitz; May (1953): ile aux Canards, ilot Tilguit, recif Ricaudy, Grand Mato.
Trichogloea lubrica (Harv.) J. Ag.; May (1953): Tiare.
Trichogloea requienii (Mont.) Kuetz.; Garrigue (1985): ilot Amere (reserve Merlet).
Vanvoorstia sp.; May (1966).
Vidalia fimbriata (R. Br.) J. Ag.
 var. *neocaledonica* Grunow; Grunow in Falkenberg (1901).
Wrangelia argus Mont.; Grunow (1874); Schmidt (1928).
- SPECIES OF RHODOPHYTA QUESTIONABLY IN NEW CALEDONIA.
- Euhymenia polychotoma* Kuetz.; Kuetzing (1867).
Iridea fimbriata Kuetz.; Kuetzing (1867): Wagap.
Iridea irregularis Kuetz.; Kuetzing (1867): Wagap.
Mastocarpus marginalis Kuetz.; Kuetzing (1867).
Nothogenia livida Kuetz.; Kuetzing (1868).
Sphaerococcus caulescens Kuetz.; Kuetzing (1868).
Sphaerococcus setaceus Kuetz.; Kuetzing (1868).
Sphaerococcus vieillardii Kuetz.; Kuetzing (1868).

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