

Bibliographic checklist of the marine benthic algae of Central Polynesia in the Pacific Ocean (Excluding Hawai‘i and French Polynesia)¹

ROY T. TSUDA AND SEANA K. WALSH²

Herbarium Pacificum – Botany, Natural Sciences, Bishop Museum
1525 Bernice Street, Honolulu, Hawai‘i 96817-2704, USA
e-mail: roy.tsuda@bishopmuseum.org

Abstract— The Polynesian algal bibliographic checklist is based on records from past references for American Samoa and Samoa (380 spp.), Cook Islands (111 spp.), Johnston Atoll (190 spp.), Line Islands (250 spp.), Niue (3 spp.), Phoenix Islands (193 spp.), Pitcairn Islands (23 spp.), Tokelau (1 sp.), Tonga (109 spp.), Wake Atoll (121 spp.) and Wallis and Futuna (191 spp.) and consists of three sections. The first section (I. Classification) provides a listing of classes, orders, and families of the 238 genera of Polynesian algae. The second section (II. Species-Reference Index) provides an alphabetized listing of the 667 named algal species under the four Phyla, i.e., Cyanobacteria (68 species), Rhodophyta (373 species), Ochrophyta (59 species) and Chlorophyta (167 species) with the applicable reference citations for each island or atoll. Brief taxonomic or nomenclatural notes are provided, when appropriate, for selected species. The third section (III. Island-Reference Index) provides a chronological listing of all published references for the respective island or atoll in each island group. The complete references for all citations in the text are provided in the Reference section.

Introduction

Floristic studies on the marine benthic algae of central Polynesian islands are sporadic and scattered in various publications (see Reference section) with many of the species names, especially in older publications, now relegated as

¹ Citation: Tsuda, R.T. & S.K. Walsh. 2013. Bibliographic checklist of the marine benthic algae of Central Polynesia in the Pacific Ocean (Excluding Hawai‘i and French Polynesia). *Micronesica* 2013-02, 91 pp. Published online 2 April 2013. www.uog.edu/up/micronesica/2013.

Open access; Creative Commons Attribution-NonCommercial-NoDerivs License.

² Current Address: Department of Botany, University of Hawai‘i at Mānoa, 3190 Maile Way, Room 101, Honolulu, Hawai‘i 96822, USA.

synonyms. Molecular studies have, likewise, revealed patterns contrary to morphological and anatomical findings in selected algal genera and species which mandated changes in our understanding of their taxonomy. The need for a current algal bibliographic checklist for central Polynesia, based on current species names associated with specific island groups in the vast central Pacific, now seemed warranted with the increase in algal collections over the past decade obtained during the U.S. National Oceanic and Atmospheric Administration (NOAA) cruises to U.S. Pacific islands and atolls.

The Polynesian algal bibliographic checklist is patterned after the Micronesian algal bibliography and checklist (Tsuda & Wray 1977, Tsuda 1981) which encompassed five Micronesian Island groups — Mariana Islands (Guam and Northern Mariana Islands), Caroline Islands (Palau and Federated States of Micronesia), Marshall Islands, Gilbert Islands (part of Kiribati) and Ellice Islands (Tuvalu). Tuvalu, as well as the Phoenix Islands and Line Islands of Kiribati, are also considered Polynesian islands.

The islands covered in this Polynesian algal bibliographic checklist are American Samoa and Samoa, Cook Islands, Johnston Atoll, Line Islands, Niue, Phoenix Islands, Pitcairn Islands, Tokelau, Tonga, Wake Atoll (also considered a Micronesian atoll), Wallis and Futuna. The Polynesian bibliography excludes the Hawaiian Islands and French Polynesia because detailed bibliographic and taxonomic compilations of marine benthic algae are already available, i.e., Hawaiian Islands (Abbott 1999, Abbott & Huisman 2004, Huisman et al. 2007) and French Polynesia (Payri & Meinesz 1985, Payri & N'Yeurt 1997, N'Yeurt & Payri 2006, 2007, 2010).

The objectives of this bibliographic checklist were to provide a listing, based on past references, of Central Polynesian algae utilizing their currently accepted names, to assemble all applicable references which reported marine algae from Central Polynesia, and to identify the specific islands or atolls where the algae were found. It mainly serves as a tool for distributional studies and clearly shows where further collections and floristic studies are needed in the central Polynesian region. It was not the intent to locate, reexamine and personally verify the identity of the originally cited specimens, especially the older ones. Selected species names, unless relegated as synonyms or corrected in subsequent publication(s) as misapplied names, remain listed here as originally cited by the author(s). Some should be viewed with caution until more detailed examinations are undertaken. Further studies might well change distributional records, reducing and/or increasing the number of species.

Methods

The Polynesian bibliographic checklist consists of three sections and the Reference section. The first section (I. Classification) provides a listing of the

classes, orders (phylogenetic), families (alphabetized) and genera (alphabetized) of those marine benthic algae reported in published works under the Phyla Cyanobacteria (blue-green algae), Rhodophyta (red algae), Ochrophyta (brown algae) and Chlorophyta (green algae). The basic higher level classification systems were followed — blue-green algae (Anagnostidis & Komárek 1988, Komárek & Anagnostidis 1989, Silva et al. 1996), red algae (Abbott 1999, Yoon et al. 2006, Choi et al. 2008), brown algae (Abbott & Huisman 2004) and green algae (Cocquyt et al. 2010).

The second section (II. Species-Reference Index) provides an alphabetized listing of the current algal species names cited in the published references. Species listed in reports are included if the listing or species was subsequently listed in a published article, e.g., algae initially listed by DeWreede & Doty (1970) and Tsuda et al. (1973) from Tabuaeran Atoll (Fanning) were incorporated in the Appendix of Tsuda et al. (2012). The extensive listings in the technical reports by Skelton & South (1999, 2000) and Skelton (2003b) were not included here since subsequent published works are available (see Reference section). The listing from the descriptive field guide of the algae from the Cook Islands (N'Yeurt 1999) was incorporated since few studies exist for this island group.

The present account excludes species listed in catalogs based on past references, e.g., Schmidt (1928), unless the cited species represented new records. Synonyms used by the original authors are enclosed in brackets. Infraspecific taxa are not cited in this listing. AlgaeBase (Guiry and Guiry 2012) was consulted, in part, for current names and classification. Citations of author, with or without initials, follow Brummitt & Powell (1992). Species described as new are cited in boldface and the specific island where the collections were made is designated as "Type." Annotations, if deemed necessary, are included under "Notes." Unlike the Micronesian bibliographic listing (Tsuda & Wray 1977, Tsuda 1981), the references are cited after the specific island or atoll in each island group. The references are placed directly after the names of the island group where island groups consisted of a single island (Niue) or atoll (Johnston and Wake) or when a specific island or atoll was not designated in the reference.

The third section (III. Island-Reference Index) provides a chronological listing of all published citations under the respective island or atoll of each island group. The information provided here presents a summary of pertinent references applicable to specific islands and atolls or to an island group. This section should be useful to individuals who plan to undertake marine surveys on specific islands in an island group.

Gilbertese names (Motteler 2006) were used for certain islands of Kiribati, i.e., Phoenix Islands — Kanton (Canton), Manra (Sydney), Nikumaroro (Gardner), Orona (Hull), Rawaki (Phoenix) and Line Islands — Kiritimati (Christmas), Tabuaeran (Fanning), Teraina (Washington), Millennium (Caroline). The two

U.S.-administered islands of Baker Island and Howland Island are not formally part of the Phoenix Islands (part of Kiribati) but are included here as outliers of the adjacent southeastern Phoenix Islands (Maragos et al. 2008). Likewise, Niuafo‘ou is treated as an outlier of adjacent southern Tonga (Motteler 2006).

The complete references of all citations in the text are provided in the Reference section.

Bibliographic Checklist

I. CLASSIFICATION

Phylum CYANOBACTERIA

Class Cyanophyceae

Order Chroococcales

Family Chroococcaceae (*Chroococcus*), Dermocarpaceae (*Cyanocystis*), Entophysalidaceae (*Entophysalis*), Hydrococcaceae (*Hyella*, *Pleurocapsa*), Microcystaceae (*Microcystis*).

Order Synechococcales

Family Merismopediaceae (*Merismopedia*).

Order Oscillatoriales

Family Borziaceae (*Borzia*), Oscillatoriaceae (*Blennothrix*, *Lyngbya*, *Oscillatoria*), Phormidiaceae (*Arthrosphaera*, *Coleofasciculus*, *Leibleinia*, *Microcoleus*, *Phormidium*, *Porphyrosiphon*, *Symploca*, *Symplocastrum*), Schizotrichaceae (*Schizothrix*, *Trichocoleus*).

Order Pseudanabaenales

Family Pseudanabaenaceae (*Heteroleibleinia*, *Leptolyngbya*, *Spirocoleus*, *Spirulina*).

Order Nostocales

Family Hapalosiphonaceae (*Mastigocoleus*), Microchaetaceae (*Microchaete*), Nostocaceae (*Anabaena*, *Hormothamnium*, *Nostoc*), Rivulariaceae (*Calothrix*, *Dichothrix*, *Isactis*, *Rivularia*), Scytonemataceae (*Scytonema*, *Scytonematospsis*), Symphonemataceae (*Brachytrichia*).

Phylum RHODOPHYTA

Class Bangiophyceae

Order Bangiales

Family Bangiaceae (*Bangia*).

Class Stylopogonophyceae

Order Stylopogonatales

Family Stylopogonataceae (*Chroodactylon*, *Stylopoma*).

Class Compsopogonophyceae

Order Erythropeltidales

- Family Erythrotrichiaceae (*Erythrotrichia*).
Class Florideophyceae
Order Acrochaetales
Family Acrochaetaceae (*Acrochaetium*).
Order Colaconematales
Family Colaconemataceae (*Colaconema*).
Order Nemaliales
Family Galaxauraceae (*Actinotrichia*, *Dichotomaria*, *Galaxaura*, *Tricleocarpa*), Liagoraceae (*Ganonema*, *Liagora*, *Yamadaella*).
Order Bonnemaisoniales
Family Bonnemaisoniaceae (*Asparagopsis*).
Order Gelidiales
Family Gelidiaceae (*Gelidium*), Gelidiellaceae (*Gelidiella*, *Parviphycus*), Pterocladiaceae (*Pterocladiella*).
Order Corallinales
Family Corallinaceae (*Amphiroa*, *Haliptilon*, *Heteroderma*, *Hydrolithon*, *Jania*, *Lithophyllum*, *Lithoporella*, *Lithothamnium*, *Mastophora*, *Neogoniolithon*, *Pneophyllum*), Hapalidiaceae (*Choreonema*, *Mesophyllum*).
Order Sporolithales
Family Sporolithaceae (*Sporolithon*).
Order Peyssonneliales
Family Peyssonneliaceae (*Cruoriella*, *Peyssonnelia*, *Polystrata*).
Order Gigartinales
Family Caulacanthaceae (*Caulacanthus*), Corynocystaceae (*Corynocystis*), Cystocloniaceae (*Hypnea*, *Rhodophyllis*), Dicranemataceae (*Dicranema*), Dumontiaceae (*Dudresnaya*, *Gibsmithia*), Gigartinaceae (*Chondracanthus*), Kallymeniaceae (*Kallymenia*), Phyllophoraceae (*Ahnfeltiopsis*), Rhizophyllidaceae (*Portieria*), Solieriaceae (*Meristotheca*, *Sarconema*, *Wurdemannia*).
Order Gracilariales
Family Gracilariaaceae (*Gracilaria*, *Hydropuntia*).
Order Halymeniales
Family Halymeniaceae (*Carpopeltis*, *Cryptonemia*, *Gratelouphia*, *Halymenia*, *Prionitis*, *Yonagunia*).
Order Sebdeniales
Family Sebdeniaceae (*Sebdenia*).
Order Hildenbrandiales
Family Hildenbrandiaceae (*Hildenbrandia*).
Order Nemastomatales
Family Nemastomataceae (*Predaea*), Schizymeniaceae (*Haematocelis*, *Platoma*, *Titanophora*).

Order Rhodymeniales

Family Champiaceae (*Champia*, *Chylocladia*, *Coelothrix*, *Dictyothamnion*), Hymenocladiaeae (*Asteromenia*), Lomentariaceae (*Ceratodictyon*, *Lomentaria*), Rhodymeniaceae (*Botryocladia*, *Chamaebotrys*, *Chrysymenia*, *Erythrocolon*, *Halichrysis*, *Rhodymenia*).

Order Ceramiales

Family Callithamniaceae (*Aglaothamnion*, *Callithamnion*, *Crouania*, *Euptilota*), Ceramiaceae (*Antithamnion*, *Antithamnionella*, *Balliella*, *Centroceras*, *Ceramium*, *Corallophila*, *Gayliella*), Dasyaceae (*Dasya*, *Heterosiphonia*), Delesseriaceae (*Branchioglossum*, *Caloglossa*, *Frikkiella*, *Hypoglossum*, *Martensia*, *Myriogramme*, *Nitophyllum*, *Taenioma*), Rhodomelaceae (*Acanthophora*, *Alsidium*, *Amansia*, *Bostrychia*, *Chondria*, *Chondrophycus*, *Digenea*, *Ditria*, *Herposiphonia*, *Laurencia*, *Leveillea*, *Lophocladia*, *Lophosiphonia*, *Murrayella*, *Neosiphonia*, *Neotonophycus*, *Palisada*, *Polysiphonia*, *Spirocladia*, *Tolypiocladia*, *Womersleyella*), Sarcomeniaceae (*Cottoniella*, *Dotyella*, *Malaconema*), Spyridiaceae (*Spyridia*), Wrangeliaceae (*Anotrichium*, *Diplothamnion*, *Griffithsia*, *Gymnothamnion*, *Haloplegma*, *Lejolisia*, *Lomathamnion*, *Monosporus*, *Ptilothamnion*, *Spermothamnion*, *Spongoclonium*, *Tiffaniella*, *Wrangelia*).

Phylum OCROPHYTA

Class Phaeophyceae

Order Ectocarpales

Family Acinetosporaceae (*Feldmannia*, *Hincksia*, *Kuetzingiella*), Mesosporaceae (*Mesospora*), Scytoniphonaceae (*Chnoospora*, *Colpomenia*, *Hydroclathrus*, *Rosenvingea*).

Order Scytothamnales

Family Asteronemataceae (*Asteronema*).

Order Ralfsiales

Family Neoralfsiaceae (*Neoralfsia*).

Order Sphaelariales

Famiy Sphaelariaceae (*Herpodiscus*, *Sphaelaria*).

Order Dictyotales

Family Dictyotaceae (*Dictyopteris*, *Dictyota*, *Lobophora*, *Padina*, *Rugulopteryx*, *Spatoglossum*, *Stylopodium*, *Zonaria*).

Order Cutleriales

Family Cutleriaceae (*Cutleria*).

Order Fucales

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

Phylum CHLOROPHYTA

Class Chlorophyceae

Order Palmophyllales (provisionally placed here)

Family Palmophyllaceae (*Palmophyllum*).

Order Chaetophorales

Family Chaetophoraceae (*Sporocladopsis*).

Class Ulvophyceae

Order Ulotrichales

Family Ulotrichaceae (*Ulothrix*).

Order Ulvales

Family Gomontiaceae (*Gomontia*), Phaeophilaceae (*Phaeophila*),
Ulvaceae (*Ulva*), Ulvellaceae (*Ulrella*).

Class Bryopsidophyceae

Order Bryopsidales

Family Bryopsidaceae (*Bryopsis*, *Pseudobryopsis*), Caulerpaceae
(*Caulerpa*, *Caulerpella*), Codiaceae (*Codium*), Derbesiaceae
(*Derbesia*, *Pedobesia*), Dichotomosiphonaceae (*Avrainvillea*), Hali-
mediaceae (*Halimeda*), Ostreobiaceae (*Ostreobium*), Rhizophiliaceae
(*Rhipilia*, *Rhipiliopsis*), Udoteaceae (*Boodleopsis*, *Chlorodesmis*,
Flabellaria, *Pseudochlorodesmis*, *Rhipidosiphon*, *Tydemania*, *Udotea*).

Class Siphonocladophyceae

Order Cladophorales

Family Anadyomenaceae (*Anadyomene*, *Microdictyon*, *Rhipidiophyllum*), Cladophoraceae (*Chaetomorpha*, *Cladophora*, *Rhizoclonium*).

Order Siphonocladales

Family Boodleaceae (*Boodlea*, *Cladophoropsis*, *Phyllocladion*),
Siphonocladaceae (*Boergesenia*, *Dictyosphaeria*, *Siphonocladus*),
Valoniaceae (*Valonia*).

Class Dasycladophyceae

Order Dasycladales

Family Dasycladaceae (*Neomeris*), Polyphysaceae (*Acetabularia*,
Parvocaulis).

II. SPECIES-REFERENCE INDEX

Cyanobacteria*Anabaena torulosa* Lageheim ex Bornet & Flahault**Cook Islands.** AITUTAKI: N'Yeurt 1999. RAROTONGA: N'Yeurt
1999.*Arthrosira laxissima* Setchell**American Samoa & Samoa.** TUTUILA: Setchell 1924 (Type).

Blennothrix comoides (Gomont) Anagnostidis & Komárek [= *Hydrocoleum comoides* (Harvey) Gomont]

Line Islands. KINGMAN: Tsuda et al. 2012 as *Blennothrix* cf. *comoides*. **Phoenix Islands.** KANTON: Degener & Degener 1959 as *Hydrocoleum comoides*.

Blennothrix confluens (Setchell & N.L. Gardner) Umezaki [= *Hydrocoleum confluens* (Setchell & N.L. Gardner) Drouet]

Phoenix Islands. KANTON: Degener & Degener 1959 as *Hydrocoleum confluens*.

Blennothrix glutinosa (Gomont ex Gomont) Anagnostidis & Komárek [= *Hydrocoleum glutinosum* (C. Agardh) Gomont]

Phoenix Islands. KANTON: Degener & Degener 1959 as *Hydrocoleum glutinosum*.

Blennothrix lyngbyacea (Kützing ex Gomont) Anagnostidis & Komárek [= *Hydrocoleum lyngbyaceum* Kützing, *Microcoleus lyngbyaceus* (Kützing) P. Crouan & H. Crouan]

Johnston Atoll. Buggeln & Tsuda 1969 as *Hydrocoleum lyngbyaceum*.

Line Islands. TABUAERAN: Tsuda et al. 1973 as *Microcoleus lyngbyaceus*. **Phoenix Islands.** BAKER: Tsuda et al. 2008. KANTON:

Degener & Degener 1959 as *H. lyngbyaceum*. RAWAKI: South et al. 2001. **Pitcairn Islands.** PITCAIRN: Tsuda 1976 as *M. lyngbyaceus*.

***Borzia elongata* H.K. Baker, G.M. Patterson & Ikagawa**

Johnston Atoll. Baker et al. 1997 (Type).

Brachytrichia quoyi (C. Agardh) Bornet & Flahault

Pitcairn Islands. PITCAIRN: Tsuda 1976.

Calothrix confervicola C. Agardh ex Bornet & Flahault

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. UPOLU: Skelton & South 2002b. **Johnston Atoll.** Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. TABUAERAN: Tsuda et al. 1973. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Calothrix crustacea Schousboe ex Thuret

American Samoa and Samoa. UPOLU: Reinbold 1907, Skelton & South 2002b. **Johnston Atoll.** Buggeln & Tsuda 1969.

Calothrix fuscoviolacea P. Crouan & H. Crouan ex Bornet & Flahault

Johnston Atoll. Tsuda et al. 2010b.

Calothrix scopulorum (F. Weber & D. Mohr) C. Agardh

Johnston Atoll. Buggeln & Tsuda 1969.

Chroococcus turgidus (Kützing) Nägeli [= *Anacystis dimidiata* Drouet & W.A. Daily]

Line Islands. PALMYRA: Dawson et al. 1955 as *Anacystis dimidiata*.

TABUAERAN: Tsuda et al. 1973 as *A. dimidiata*. **Phoenix Islands.**

KANTON: Degener & Degener 1959 as *A. dimidiata*.

Coleofasciculus chthonoplastes (Gomont) M. Siegesmund, T.R. Johansen & T. Friede [= *Microcoleus chthonoplastes* (Mertens) Zanardini]

Johnston Atoll. Buggeln & Tsuda 1969 as *Microcoleus chthonoplastes*.

Phoenix Islands. KANTON: Degener & Degener 1959 as *M. chthonoplastes*.

Cyanocystis olivacea (Reinsch) Komárek & Anagnostidis [= *Sphaenosiphon olivaceus* Reinsch]

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004 as *Sphaenosiphon olivaceus*.

Dichothrix penicillata Zanardini

Johnston Atoll. Tsuda et al. 2010b as *Dichothrix cf. penicillata*.

Dichothrix utahensis Tilden

Wake Atoll. Tsuda et al. 2010a.

Entophysalis conferta (Kützing) Drouet & W.A. Daily

Line Islands. PALMYRA: Dawson 1959b. TABUAERAN: DeWreede & Doty 1970, Tsuda et al. 1973.

Entophysalis deusta (Meneghini) Drouet & W.A. Daily

Johnston Atoll. Buggeln & Tsuda 1969. **Line Islands.** TABUAERAN: Tsuda et al. 1973. **Phoenix Islands.** KANTON: Degener & Degener 1959.

Heteroleibleinia infixa (Frémy) Anagnostidis & Komárek [= *Lyngbya infixa* Frémy]

Phoenix Islands. KANTON: Degener & Degener 1959 as *Lyngbya infixa*.

Hormothamnium enteromorphoides Grunow

American Samoa & Samoa. SAVAI'I: Reinbold 1907. **Johnston Atoll.**

Buggeln & Tsuda 1969. **Pitcairn Islands.** PITCAIRN: Tsuda 1976.

Hormothamnium solutum Bornet & Grunow

Line Islands. PALMYRA: Dawson et al. 1955. TABUAERAN: Tsuda et al. 1973.

Hyella caespitosa Bornet & Flahault

American Samoa & Samoa. ROSE: Setchell 1924. TUTUILA: Setchell 1924.

Isactis plana (Harvey) Thuret ex Bornet & Flahault

Johnston Atoll. Buggeln & Tsuda 1969.

Leibleinia gracilis (Rabenhorst ex Gomont) Anagnostidis & Komárek [= *Lyngbya gracilis* (Meneghini) Rabenhorst]

Line Islands. PALMYRA: Howe & Lyon 1916 and Dawson 1959b as *Lyngbya gracilis*.

- Leptolyngbya crosbyana* (Tilden) Anagnostidis & Komárek
American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Johnston Atoll.** Tsuda et al. 2010b. **Wake Atoll.** Tsuda et al. 2010a.
- Leptolyngbya rivulariarum* (Gomont) Anagnostidis & Komárek [= *Lyngbya rivulariarum* Gomont]
Line Islands. PALMYRA: Dawson et al. 1955 as *Lyngbya rivulariarum*.
Leptolyngbya terebrans (Bornet & Flahault ex Gomont) Anagnostidis & Komárek [= *Plectonema terebrans* Bornet & Flahault ex Gomont]
American Samoa & Samoa. ROSE: Setchell 1924 as *Plectonema terebrans*.
- Lyngbya aestuaria* Liebman ex Gomont
Johnston Atoll. Buggeln & Tsuda 1969. **Phoenix Islands.** KANTON: Degener & Degener 1959. **Wake Atoll.** Tsuda et al. 2006.
- Lyngbya bouillonii* L.R. Hoffman & Demoulin
American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Line Islands.** KINGMAN: Tsuda et al. 2012. **Wake Atoll.** Tsuda et al. 2010a.
- Lyngbya confervoides* C. Agardh ex Gomont
American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Johnston Atoll.** Buggeln & Tsuda 1969, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. PALMYRA: Howe & Lyon 1916, Dawson et al. 1955. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. KANTON: Degener & Degener 1959. MCKEAN: South et al. 2001. NIKUMARORO: South et al. 2001. **Wake Atoll.** Tsuda et al. 2010a.
- Lyngbya majuscula* Harvey ex Gomont
American Samoa & Samoa. Reinbold 1896. TUTUILA: Setchell 1924. UPOLU: Reinbold 1907. **Cook Islands.** RAROTONGA: Chapman 1977, N'Yeurt 1999. **Johnston Atoll.** Buggeln & Tsuda 1969. **Line Islands.** PALMYRA: Dawson et al. 1955, Dawson 1959b. **Phoenix Islands.** HOWLAND: Tsuda et al. 2008. KANTON: Degener & Degener 1959. MCKEAN: South et al. 2001. NIKUMARORO: South et al. 2001. **Tonga.** NIUAFO'OU: Howe 1932. **Wake Atoll.** Tsuda et al. 2006. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.
- Lyngbya penicilliformis* P.C. Silva [= *Phormidium penicillatum* Gomont]
Line Islands. KINGMAN: Tsuda et al. 2012. PALMYRA: Dawson et al. 1955 and Dawson 1959b as *Phormidium penicillatum*.
- Lyngbya pygmaea* Setchell
American Samoa & Samoa. TUTUILA: Setchell 1924 (Type).
- Lyngbya semiplena* J. Agardh ex Gomont
Line Islands. PALMYRA: Dawson et al. 1955. **Phoenix Islands.** BAKER: Tsuda et al. 2008. ENDERBURY: South et al. 2001.

KANTON: Degener & Degener 1959. MANRA: South et al. 2001.

Wake Atoll. Tsuda et al. 2010a.

Lyngbya sordida Gomont [= *Lyngbya polychroa* (Menghini) Rabenhorst]

American Samoa & Samoa. UPOLU: Reinbold 1907. **Line Islands.**

JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. PALMYRA: Dawson 1959b. **Wake Atoll.** Tsuda et al. 2010a as *Lyngbya polychroa*.

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004 as *L. polychroa*.

Lyngbya tropica Kützing

Cook Islands. MANGAIA: Dickie 1875.

Note. The status of this species is not clear; it is most likely not a currently accepted name.

Lyngbya spp.

American Samoa & Samoa. UPOLU: Skelton & South 2002b. **Phoenix Islands.** NIKUMARORO: South et al. 2001.

Mastigocoleus testarum Lagerheim ex Bornet & Flahault

American Samoa & Samoa. TUTUILA: Setchell 1924.

Merismopedia thermalis Kützing [= *Agmenellum thermale* (Kützing) Drouet & W.A. Daily]

Line Islands. TABUAERAN: Tsuda et al. 1973 as *Agmenellum thermale*.

Microchaete vitiensis Askenasy ex Bornet & Flahault

American Samoa & Samoa. Reinbold 1896. ROSE: Setchell 1924.

Microcoleus vaginatus (Vaucher) Gomont

Johnston Atoll. Buggeln & Tsuda 1969.

Microcystis dimidiata (Kützing) P.C. Silva [= *Anacystis dimidiata* (Kützing) Drouet & W.A. Daily]

Johnston Atoll. Buggeln & Tsuda 1969 as *Anacystis dimidiata*.

Nostoc calcicola Brébisson ex Bornet & Flahault

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Oscillatoria bonnemaisonii (P. Crouan & H. Crouan) P. Crouan & H. Crouan ex Gomont

Line Islands. PALMYRA: Dawson et al. 1955, Dawson 1959b. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Oscillatoria margaritifera Kützing ex Gomont

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Oscillatoria sp.

Phoenix Islands. MCKEAN: South et al. 2001.

Phormidium autumnale (C. Agardh) Trevisan ex Gomont

American Samoa & Samoa. UPOLU: Reinbold 1907.

Phormidium corium (C. Agardh) Kützing ex Gomont

Line Islands. PALMYRA: Dawson et al. 1955.

Phormidium laysanense Lemmermann

Line Islands. JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012.

Phormidium nigroviridis (Thwaites ex Gomont) Anagnostidis & Komárek [= *Oscillatoria nigroviridis* Thwaites]

Johnston Atoll. Buggeln & Tsuda 1969 as *Oscillatoria nigroviridis*.

Wake Atoll. Tsuda et al. 2010a as *Oscillatoria cf. nigro-viridis*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Phormidium papyraceum (C. Agardh) Kützing ex Gomont

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Phormidium submembranaceum (Ardissono & J. Strafforello) Gomont

Johnston Atoll. Buggeln & Tsuda 1969.

Pleurocapsa mayori Setchell

American Samoa & Samoa. ROSE: Setchell 1924 (Type).

Porphyrosiphon luteus (Gomont) Anagnostidis & Komárek [= *Lyngbya lutea* (C.

Agardh) Areschoug]

Johnston Atoll. Buggeln & Tsuda 1969 as *Lyngbya lutea*.

Rivularia polyotis (J. Agardh) Hauck

Wake Atoll. Tsuda et al. 2010a.

Schizothrix calcicola (C. Agardh) Gomont ex Gomont

Cook Islands. AITUTAKI: N'Yeurt 1999. RAROTONGA: N'Yeurt

1999. **Johnston Atoll.** Buggeln & Tsuda 1969. **Line Islands.**

TABUAERAN: DeWrede & Doty 1970, Tsuda et al. 1973. **Phoenix Islands.** BAKER: Tsuda & Trono 1968, Tsuda et al. 2008.

Schizothrix mexicana Gomont

Line Islands. TABUAERAN: DeWrede & Doty 1970, Tsuda et al. 1973.

Schizothrix tenerima (Gomont) Drouet

American Samoa & Samoa. UPOLU: Skelton & South 2002b as *Schizothrix cf. tenerima*.

Schizothrix spp.

Phoenix Islands. KANTON: South et al. 2001. MCKEAN: South et al. 2001. NIKUMARORO: South et al. 2001.

Scytonema polycystum Bornet & Flahault

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Scytonematospis pilosa (Harvey ex Bornet & Flahault) Umezaki & M. Watanabe [= *Calothrix pilosa* Harvey]

Line Islands. TABUAERAN: Tsuda et al. 1973 as *Calothrix pilosa*.

Pitcairn Islands. PITCAIRN: Tsuda 1976 as *C. pilosa*. **Wake Atoll.** Tsuda et al. 2006 as *C. pilosa*.

Spiroculeus fragilis (Meneghini) P.C. Silva

Line Islands. KINGMAN: Tsuda et al. 2012 as *Spirocoleus* cf. *fragilis*.

Phoenix Islands. BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008.

Spirulina major Kützing ex Gomont

Line Islands. PALMYRA: Dawson et al. 1955.

Spirulina subsalsa Oersted ex Gomont

American Samoa & Samoa. ROSE: Setchell 1924. **Phoenix Islands.**

KANTON: Degener & Degener 1959. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Spirulina tenerrima Kützing ex Gomont

Johnston Atoll. Buggeln & Tsuda 1969. **Phoenix Islands.** KANTON:

Degener & Degener 1959.

Symploca atlantica Gomont

Johnston Atoll. Buggeln & Tsuda 1969. **Wallis & Futuna.** WALLIS:

N'Yeurt & Payri 2004.

Symploca hydnoides Gomont

American Samoa & Samoa. TUTUILA: Setchell 1924. UPOLU:

Reinbold 1907. **Cook Islands.** AITUTAKI: N'Yeurt 1999. RARO-

TONGA: N'Yeurt 1999. **Johnston Atoll.** Tsuda et al. 2010b. **Line**

Islands. PALMYRA: Dawson et al. 1955. **Phoenix Islands.** KANTON:

Degener & Degener 1959. **Wake Atoll.** Tsuda et al. 2006. **Wallis &**

Futuna. WALLIS: N'Yeurt & Payri 2004.

Symploca laeteviridis Gomont

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Symplocastrum coccineum (Gomont) Anagnostidis [= *Hydrocoleum coccineum* Gomont]

Johnston Atoll. Tsuda et al. 2010b as *Hydrocoleum coccineum*. **Phoenix**

Islands. BAKER: Tsuda et al. 2008 as *H. coccineum*.

Trichocoleus tenerrimus (Gomont) Anagnostidis [= *Microcoleus tenerrimus* Gomont]

American Samoa & Samoa. ROSE: Setchell 1924 as *Microcoleus tenerrimus*. **Johnston Atoll.** Buggeln & Tsuda 1969 as *M. tenerrimus*.

Rhodophyta

Acanthophora pacifica (Setchell) Kraft

American Samoa & Samoa. OFU-OLOSEGA (Nu'utele): Skelton & South 2007. TUTUILA: Skelton & South 2007. UPOLU: Skelton & South 2007. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Acanthophora spicifera (Vahl) Børgesen [= *Acanthophora orientalis* J. Agardh, *Acanthophora thierii* J.V. Lamouroux]

American Samoa & Samoa. OFU-OLOSEGA (Nu‘utele): Skelton & South 2007. UPOLU: Grunow 1874 and Reinbold 1896 as *Acanthophora orientalis*, Skelton & South 2002a, 2007. **Line Islands.** PALMYRA: Knapp et al. 2011. **Tonga.** TONGATAPU: Grunow 1874 as *A. orientalis*, Dickie 1876 as *Acanthophora thierii*. **Wallis & Futuna.** WALLIS: N’Yeurt & Payri 2004.

Acrochaetium barbadense (Vickers) Børgesen

Wake Atoll. Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N’Yeurt & Payri 2004.

Acrochaetium corymbiferum (Thuret) Batters

Wake Atoll. Tsuda et al. 2010a as *Acrochaetium cf. corymbifera*.

Acrochaetium flexuosum Vickers

American Samoa & Samoa. UPOLU: Skelton & South 2007.

Acrochaetium kurogii (Y.P. Lee & S.C. Lindstrom) Y.P. Lee & I.K. Lee

Wallis & Futuna. WALLIS: N’Yeurt & Payri 2004.

Acrochaetium liagorae Børgesen

Wake Atoll. Tsuda et al. 2006.

Acrochaetium microscopicum (Nägeli ex Kützing) Nägeli

Phoenix Islands. BAKER: Tsuda et al. 2008.

Acrochaetium robustum Børgesen

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Line Islands.** PALMYRA: Dawson et al. 1955.

Acrochaetium subtilissima (Kützing) Hamel [= *Callithamnion subtilissimum* Kützing]

Tonga. TONGATAPU: Grunow 1874 as *Callithamnion subtilissimum*.

Acrochaetium sp.

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Line Islands.** TABUAERAN: Tsuda et al. 1973.

Actinotrichia fragilis (Forsskål) Børgesen [= *Actinotrichia rigida* (J.V. Lamouroux) Decaisne]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Actinotrichia rigida*, Skelton & South 2007. UPOLU: Grunow 1874 and Reinbold 1896, 1907 as *A. rigida*, Skelton & South 2002a, 2007. **Cook Islands:** RAROTONGA: N’Yeurt 1999. **Tonga.** NIUAFO’OU: Howe 1932 as *A. rigida*. TONGATAPU: Grunow 1874 as *A. rigida*. **Wallis & Futuna.** WALLIS: N’Yeurt & Payri 2004.

Aglaothamnion boergesenii (Aponte & D.L. Ballantine) L’Hardy-Halos & Rueness

Johnston Atoll. Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. **Phoenix Islands.** BAKER: Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2006.

Aglaothamnion cordatum (Børgesen) Feldmann-Mazoyer

American Samoa & Samoa. UPOLU: Skelton & South 2002a. **Line Islands.** JARVIS: Tsuda et al. 2012. **Phoenix Islands.** BAKER: Tsuda et al. 2008. ENDERBURY: South et al. 2001. **Wake Atoll.** Tsuda et al. 2010a.

Ahnfeltiopsis concinna (J. Agardh) P.C. Silva & DeCew [= *Ahnfeltia concinna* J. Agardh]

Phoenix Islands. KANTON: Degener & Gillaspy 1955 as *Ahnfeltia concinna*.

***Alsidium pacificum* Dawson**

Line Islands: PALMYRA: E.Y. Dawson 1959b (Type)

Amansia rhodantha (Harvey) J. Agardh [= *Amansia paloloensis* South & Skelton]

American Samoa & Samoa. UPOLU: Grunow 1874 and Reinbold 1896 as *Amansia glomerata* C. Agardh, South & Skelton 1999 and Skelton & South 2002a as *Amansia paloloensis*, N'Yeurt 2002, Skelton & South 2007 as *A. glomerata*. **Cook Islands.** RAROTONGA: N'Yeurt 2002 as *Amansia* sp.

Note: N'Yeurt (2002) relegated *Amansia paloloensis* as a synonym of *Amansia rhodantha*, and did not recognize *Amansia glomerata* or *Melanamansia glomerata* (C. Agardh) R.E. Norris as present in American Samoa, Samoa or the Cook Islands. Skelton & South (2007) later considered their new species *Amansia paloloensis* a growth form of *Amansia glomerata*.

Amphiroa anceps (Lamarck) Decaisne

American Samoa & Samoa. TUTUILA: Setchell 1924. UPOLU: Reinbold 1896.

Amphiroa crassa J.V. Lamouroux

American Samoa & Samoa. TUTUILA: Setchell 1924, Skelton & South 2007. UPOLU: Skelton & South 2002a, 2007.

Amphiroa foliacea J.V. Lamouroux

American Samoa & Samoa. AUNU'U: Skelton & South 2007. SAVAI'I: Skelton & South 2007. TUTUILA: Setchell 1924, Skelton & South 2007. UPOLU: Skelton & South 2002a, 2007. **Cook Islands.** AITUTAKI: N'Yeurt 1999. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Amphiroa fragilissima (Linnaeus) J.V. Lamouroux

American Samoa & Samoa. TUTUILA: Setchell 1924. UPOLU: Skelton & South 2002a. **Cook Islands.** AITUTAKI: N'Yeurt 1999. RAROTONGA: Chapman 1977, N'Yeurt 1999. **Niue.** Chapman 1977. **Tonga.** NIUAFO'OU: Howe 1932. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Amphiroa gracilis Harvey [= *Metagoniolithon gracile* (Harvey) Yendo]

Cook Islands. RAROTONGA: Chapman 1977 as *Metagoniolithon gracile*.

Amphiroa rigida J.V. Lamouroux

Johnston Atoll. Tsuda et al. 2010b as *Amphiroa* cf. *rigida*. **Wake Atoll.** Tsuda et al. 2010a as *A.* cf. *rigida*.

Amphiroa tribulus (Ellis & Solander) J.V. Lamouroux

American Samoa & Samoa. UPOLU: Grunow 1874, Reinbold 1896, 1907. **Cook Islands.** AITUTAKI: N'Yeurt 1999. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Note: N'Yeurt & Payri (2010) stated that *Amphiroa tribulus* may be conspecific with the polymorphic *Amphiroa foliacea*.

Amphiroa valonioides Yendo

Johnston Atoll. Tsuda et al. 2010b.

Anotrichium secundum (Harvey ex J. Agardh) G. Furnari

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Johnston Atoll.** Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012.

Anotrichium tenue (C. Agardh) Nägeli [= *Griffithsia tenuis* C. Agardh, *Griffithsia thyrsigera* (Thwaites ex Harvey) Grunow]

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. TUTUILA: Setchell 1924 as *Griffithsia thyrsigera*. UPOLU: Skelton & South 2002a, 2007. **Johnston Atoll.** Buggeln & Tsuda 1969 as *Griffithsia tenuis*, Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. TABUAERAN: Tsuda et al. 1973 as *G. tenuis*. **Phoenix Islands.** HOWLAND: Tsuda et al. 2008. MCKEAN: South et al. 2001. **Tonga.** TONGATAPU: Grunow 1874 as *G. thyrsigera*. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Antithamnion decipiens (J. Agardh) Athanasiadis

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Johnston Atoll.** Tsuda et al. 2010b. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Antithamnion lherminieri (P. Crouan & H. Crouan) Bornet ex Nasr [= *Antithamnion antillanum* Børgesen, *Antithamnion palmyrense* Dawson]

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. UPOLU: Skelton & South 2002a, 2007. **Johnston Atoll.** Buggeln & Tsuda 1969, Coles et al. 2001 and Tsuda et al. 2010b as *Antithamnion antillanum*.

Line Islands. JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. PALMYRA: Dawson 1959b as *Antithamnion palmyrense*. **Phoenix Islands.** BAKER: Tsuda et al. 2008 as *A. antillanum*. **Wake Atoll.** Tsuda et al. 2010a as *A. antillanum*.

Note: Silva et al. (1996) cites reason for maintaining *Antithamnion lherminieri* as a validly published species.

- Antithamnionella breviramosa* (E.Y. Dawson) E.M. Wollaston
American Samoa & Samoa. SWAINS: Tsuda et al. 2011. UPOLU: Skelton & South 2002a, 2007. **Johnston Atoll.** Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. **Phoenix Islands.** BAKER: Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2010a.
- Antithamnionella elegans* (Berthold) J.H. Price & D.M. John
Phoenix Islands. RAWAKI: South et al. 2001.
- Antithamnionella graeffei* (Grunow) Athanasiadis [= *Callithamnion graeffei* Grunow]
American Samoa & Samoa. UPOLU: Skelton & South 2007. **Johnston Atoll.** Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. **Tonga.** TONGATAPU: Grunow 1874 as *Callithamnion graeffei*.
- Antithamnionella simplex* (E.Y. Dawson) Skelton & South
American Samoa & Samoa. UPOLU: Skelton & South 2007.
Note: Skelton & South 2007 consider *Antithamnionella simplex* distinct from *Antithamnionella breviramosa*.
- Asparagopsis taxiformis* (Delile) Trevisan de Saint-Léon [= *Asparagopsis sandfordiana* Harvey]
American Samoa & Samoa. UPOLU: Skelton & South 2002a, 2007. **Johnston Atoll.** Tsuda et al. 2010b. **Phoenix Islands.** MANRA: South et al. 2001. **Tonga.** HA'AFEVA: Grunow 1874 as *Asparagopsis sandfordiana*. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.
- Asteromenia anastomosans* (Weber-van Bosse) G.W. Saunders, C.E. Lane, C.W. Schneider & Kraft [= *Leptofauchea anastomosans* (Farlow) R.E. Norris & A. Millar]
Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004 as *Leptofauchea anastomosans*.
- Balliella repens* Huisman & Kraft
American Samoa & Samoa. TUTUILA: Skelton & South 2007. UPOLU: Skelton & South 2002a, 2007. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.
- Balliella subcorticata* (Itono) Itono & Tak. Tanaka
American Samoa & Samoa. UPOLU: Skelton & South 2002a, 2007.
- Bangia atropurpurea* (Mertens ex Roth) C. Agardh [= *Bangia fuscopurpurea* (Dillwyn) Lyngbye]
Line Islands. TABUAERAN: Tsuda et al. 1973 as *Bangia fuscopurpurea*.
- Bangia halymeniae* M.J. Wynne
American Samoa & Samoa. UPOLU: Skelton & South 2007.
- Bangia tenuissima* Kützing

American Samoa & Samoa. UPOLU: Grunow 1874, Reinbold 1896.

Tonga. TONGATAPU: Grunow 1874.

Bostrychia sertularia Montagne

American Samoa & Samoa. AUNU'U: Setchell 1924. TUTUILA: Setchell 1924.

Bostrychia tenella (J.V. Lamouroux) J. Agardh [= *Bostrychia viellardi* Kützing]

American Samoa & Samoa. AUNU'U: Skelton & South 2007.

TUTUILA: Setchell 1924 as *Bostrychia viellardi*, Skelton & South 2007.

UPOLU: Skelton & South 2002b, 2007. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Botryocladia skottsbergii (Børgesen) Levring

American Samoa & Samoa. OFU-OLOSEGA (Nu'utele): Skelton & South 2007. TUTUILA: Skelton & South 2007. UPOLU: Skelton & South 2007. **Johnston Atoll.** Tsuda et al. 2010b. **Pitcairn Islands.** PITCAIRN: Tsuda 1976.

Branchioglossum prostratum C.W. Schneider

Line Islands. KINGMAN: Tsuda et al. 2012.

Callithamnion codicola Grunow

American Samoa & Samoa. UPOLU: Grunow 1874, Reinbold 1896.

Callithamnion marshallense E.Y. Dawson

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Johnston Atoll.** Buggeln & Tsuda 1969.

Callithamnion spp.

American Samoa & Samoa. UPOLU: Skelton & South 2007 as *Callithamnion* sp. inedit. **Line Islands.** TABUAERAN: Tsuda et al. 1973 (2 spp.).

Caloglossa adhaerens R.J. King & Puttock

American Samoa & Samoa. UPOLU: Skelton & South 2002b, 2007.

Caloglossa leprieurii (Montagne) G. Martens

American Samoa & Samoa. TUTUILA: Skelton & South 2007. UPOLU: Skelton & South 2002b, 2007. **Johnston Atoll.** Buggeln & Tsuda 1969. **Line Islands.** PALMYRA: Dawson 1959b.

Carpopeltis bushiae (Farlow) Kylin

Line Islands. JARVIS: Tsuda et al. 2012.

Caulacanthus ustulatus (Mertens ex Turner) Kützing

American Samoa & Samoa. UPOLU: Skelton & South 2002b, 2007.

Johnston Atoll. Coles et al. 2001, Tsuda et al. 2010b. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Centroceras clavulatum (C. Agardh) Montagne [= *Ceramium clavulatum* C. Agardh]

American Samoa & Samoa. TUTUILA: Setchell 1924. UPOLU: Grunow 1874, Reinbold 1896, Reinbold 1907 as *Ceramium clavulatum*,

Skelton & South 2002a, 2007. **Johnston Atoll.** Buggeln & Tsuda 1969, Coles et al. 2001. **Line Islands.** PALMYRA: Dawson et al. 1955, Dawson 1959b. TABUAERAN: Tsuda et al. 1973. **Phoenix Islands.** KANTON: Degener & Gillaspy 1955. MCKEAN: Grunow 1874. **Pitcairn Islands.** PITCAIRN: Tsuda 1976. **Tonga.** TONGATAPU: Grunow 1874. **Wake Atoll.** Tsuda et al. 2006.

Centroceras micracanthum Kützing

Tonga. TONGATAPU: Dickie 1876.

Centroceras minutum Yamada

Johnston Atoll. Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** PALMYRA: Dawson 1959b. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Ceramium aduncum Y. Nakamura

Johnston Atoll. Coles et al. 2001.

Ceramium affine Setchell & N.L. Gardner

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. UPOLU: South & Skelton 2000, Skelton & South 2002a, 2007. **Johnston Atoll.** Buggeln & Tsuda 1969, Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. **Phoenix Islands.** ENDERBURY: South et al. 2001.

Ceramium borneense Weber-van Bosse [= *Ceramium subdichotomum* Weber-van Bosse, *Ceramium sympodiale* E.Y. Dawson]

American Samoa & Samoa. TUTUILA: Skelton & South 2007. UPOLU: South & Skelton 2000 and Skelton & South 2002a as *Ceramium subdichotomum*, Skelton & South 2007. **Johnston Atoll.** Coles et al. 2001. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004 as *C. subdichotomum*.

Note: Abbott (1999) placed *Ceramium sympodiale* as a synonym of *Ceramium borneense*, while South & Skelton (2000) placed *C. sympodiale* as a synonym of *C. subdichotomum*. N'Yeurt & Payri (2010) cited both *C. sympodiale* and *C. subdichotomum* as synonyms of *C. borneense*.

Ceramium clarionense Setchell & N.L. Gardner [= *Ceramium marshallense* E.Y. Dawson]

Line Islands. KINGMAN: Tsuda et al. 2012. PALMYRA: Dawson 1959b as *Ceramium marshallense*. **Phoenix Islands.** KANTON: Dawson 1959a. **Wake Atoll.** Tsuda et al. 2010a.

Ceramium codii (H. Richards) G. Mazoyer [= *Ceramium serpens* Setchell & N.L. Gardner]

American Samoa & Samoa. UPOLU: South & Skelton 2000, Skelton & South 2002a, 2007. **Johnston Atoll.** Coles et al. 2001 as *Ceramium codii* and *Ceramium serpens*, Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. PALMYRA: Dawson 1959b as *Ceramium codii* and

Ceramium serpens. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Ceramium diaphanum (Lightfoot) Roth [= *Ceramium tenuissimum* (Roth) Areschoug]

Wake Atoll. Tsuda et al. 2006 as *Ceramium tenuissimum*.

Ceramium equisetoides E.Y. Dawson

Phoenix Islands. KANTON: Dawson 1959a.

Ceramium hanaense R.E. Norris & I.A. Abbott

Phoenix Islands. BAKER: Tsuda et al. 2008.

Ceramium isogonium Harvey

American Samoa & Samoa. TUTUILA: Skelton & South 2007. UPOLU: Skelton & South 2007. **Phoenix Islands.** Skelton & South 2007.

Ceramium krameri South & Skelton

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. TUTUILA: Skelton & South 2007. UPOLU: South & Skelton 2000, Skelton & South 2002a, 2007. **Johnston Atoll.** Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Ceramium macilentum J. Agardh [= *Ceramium mazatlanense* E.Y. Dawson]

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. UPOLU: South & Skelton 2000, Skelton & South 2002a, 2007. **Johnston Atoll.** Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. TABUAERAN: Tsuda et al. 1973 as *Ceramium mazatlanense*. **Phoenix Islands.** BAKER: Tsuda & Trono 1968 as *Ceramium* sp. based on reexamination, Tsuda et al. 2008. HOWLAND: Tsuda & Trono 1968 as *Ceramium* sp. based on reexamination, Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Ceramium maryae Weber-van Bosse

Johnston Atoll. Buggeln & Tsuda 1969.

Ceramium punctiforme Setchell

American Samoa & Samoa. TUTUILA: Setchell 1924 (Type), South & Skelton 2000. **Line Islands.** JARVIS: Tsuda et al. 2012. **Wake Atoll.** Tsuda et al. 2006.

Ceramium rintelsianum South & Skelton

American Samoa & Samoa. UPOLU: South & Skelton 2000 (Type), Skelton & South 2002a, 2007.

Ceramium upolense South & Skelton

American Samoa & Samoa. UPOLU: South & Skelton 2000 (Type), Skelton & South 2002a, 2002b, 2007. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Ceramium vagans P.C. Silva [= *Ceramium vagabunda* (*vagabunde*) E.Y. Dawson]

American Samoa & Samoa. UPOLU: South & Skelton 2000, Skelton & South 2002a, 2007. **Johnston Atoll.** Buggeln & Tsuda 1969 as *Ceramium vagabunda*, Coles et al. 2001. **Line Islands.** JARVIS: Tsuda et al. 2012. PALMYRA: Dawson 1959b as *Ceramium* "vagabunde." **Phoenix Islands.** BAKER: Tsuda et al. 2008. KANTON: Dawson 1959a as *Ceramium* "vagabunde."

Ceramium zacae Setchell & N.L. Gardner
Johnston Atoll. Buggeln & Tsuda 1969.

Ceramium spp.

American Samoa & Samoa. UPOLU: South & Skelton 2000 and Skelton & South 2002a as *Ceramium* sp. aff. *Ceramium marshallense* Dawson. **Line Islands.** PALMYRA: Dawson 1959b. **Phoenix Islands.** BAKER: Tsuda et al. 2008. KANTON: Degener & Gillaspy 1955, Dawson 1959a. ORONA: South et al. 2001 as *Ceramium* sp. aff. *C. marshallense* Dawson. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004 as *Ceramium* sp. aff. *C. marshallense*.

Ceratodictyon intricatum (C. Agardh) R. E. Norris [= *Gelidium intricatum* (C. Agardh) Kützing, *Gelidiopsis intricata* (C. Agardh) Vickers]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Gelidium intricatum*. UPOLU: Grunow 1874 and Reinbold 1896 as *Gelidium intricatum*, Skelton & South 2002a, 2007 as *Gelidiopsis intricata*. **Cook Islands.** RAROTONGA: N'Yeurt 1999 and Skelton & South 2007 as *Gelidiopsis intricata*. **Line Islands.** PALMYRA: Dawson 1959b as *Gelidiopsis intricata*. TABUAERAN: Tsuda et al. 1973 as *Gelidiopsis intricata*. **Phoenix Islands.** BAKER: Tsuda et al. 2008. KANTON: Dawson 1959a, South et al. 2001, Skelton & South 2007. RAWAKI: South et al. 2001. All as *Gelidiopsis intricata*. **Pitcairn Islands.** PITCAIRN: Tsuda 1976 and N'Yeurt & Payri 2010 as *Gelidiopsis intricata*. **Tonga.** TONGATAPU: Grunow 1874 as *Gelidium intricatum*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004 as *Gelidiopsis intricata*.

Ceratodictyon pannosum (Grunow) R.E. Norris [= *Gelidium pannosum* Grunow]

American Samoa & Samoa. Reinbold 1896 as *Gelidium pannosum*. UPOLU: Grunow 1874 (Type) as *G. pannosum*.

Ceratodictyon repens (Kützing) R.E. Norris [= *Gelidium acrocarpum* Harvey, *Gelidiopsis repens* (Kützing) Weber-van Bosse]

American Samoa & Samoa. OFU-OLOSEGA: Skelton & South 2007 as *Gelidiopsis repens*. TUTUILA: Setchell 1924 as *Gelidium acrocarpum*, Skelton & South 2007 as *G. repens*. UPOLU: Reinbold 1896 as *G. acrocarpus*, Skelton & South 2007 as *G. repens*. **Cook Islands.** RAROTONGA: N'Yeurt 1999 and Skelton & South 2007 as *G. repens*.

Ceratodictyon scoparium (Montagne & Millardet) R.E. Norris [= *Gelidiopsis scoparia* (Montagne & Millardet) De Toni]

American Samoa & Samoa. UPOLU: Skelton & South 2002a as *Gelidiopsis scoparia*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Ceratodictyon variabile (J. Agardh) R.E. Norris [= *Gelidiopsis variabilis* (J. Agardh) Schmitz]

Johnston Atoll. Coles et al. 2001 as *Gelidiopsis variabilis*.

Ceratodictyon spp.

Phoenix Islands. BAKER: Tsuda et al. 2008 as *Gelidiopsis* sp. HOWLAND: Tsuda & Trono 1968 and Tsuda et al. 2008 as *Gelidiopsis* sp.

Chamaebotrys boergesenii (Weber-van Bosse) Huisman

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Cook Islands.** RAROTONGA: N'Yeurt 1999. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Champia compressa Harvey

American Samoa & Samoa. TUTUILA: Skelton & South 2007. UPOLU: Skelton & South 2002a, 2007. **Tonga.** TONGATAPU: Grunow 1874. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Champia parvula (C. Agardh) Harvey [= *Lomentaria parvula* (C. Agardh) Zarnardini]

American Samoa & Samoa. UPOLU: Grunow 1874 and Reinbold 1896 as *Lomentaria parvula*, Skelton & South 2002a, 2007. **Cook Islands.** AITUTAKI: N'Yeurt 1999. **Johnston Atoll.** Buggeln & Tsuda 1969, Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. **Tonga.** TONGATAPU: Grunow 1874 as *Lomentaria parvula*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Chondria arcuata Hollenberg

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Chondria armata (Kützing) Okamura

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Chondria bullata N'Yeurt & Payri

Cook Islands. PALMERSTON: N'Yeurt & Payri 2009.

Chondria dangeardii E.Y. Dawson

American Samoa & Samoa. TUTUILA: Skelton & South 2007. UPOLU: Skelton & South 2002a, 2007. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Chondria dasypylla (Woodward) C. Agardh [= *Chondriopsis intermedia* Grunow]

American Samoa & Samoa. UPOLU: Grunow 1874 and Reinbold 1896 as *Chondriopsis intermedia*. **Tonga.** TONGATAPU: Grunow 1874 as *Chondriopsis intermedia*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Chondria intertexta P.C. Silva [= *Chondria intricata* Okamura]

Pitcairn Islands. PITCAIRN: Tsuda 1976 as *Chondria intricata*.

Chondria leptacremon (Melvill ex G. Murray) De Toni

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Chondria minutula Weber-van Bosse

American Samoa & Samoa. TUTUILA: Skelton & South 2007. UPOLU: Skelton & South 2002a as *Chondria repens* Børgesen (misapplied name), Skelton & South 2007. **Phoenix Islands.** MANRA: South et al. 2001, Skelton & South 2007. **Wake Atoll.** Tsuda et al. 2010a.

Chondria polyrhiza Collins & Hervey

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Johnston Atoll.** Buggeln & Tsuda 1969 as *Chondria repens* (misapplied name), Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. **Wake Atoll.** Tsuda et al. 2010a.

Chondria repens Børgesen

Line Islands. PALMYRA: Dawson 1959b. TABUAERAN: Tsuda et al. 1973. **Phoenix Islands.** ENDERBURY: South et al. 2001. MANRA: South et al. 2001.

Chondria riparia (J. Agardh) De Toni [= *Chondriopsis riparia* J. Agardh]

Tonga. TONGATAPU: Grunow 1874 as *Chondriopsis riparia*.

Chondria simpliciuscula Weber-van Bosse

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Johnston Atoll.** Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Chondria spp.

Line Islands. TABUAERAN: Tsuda et al. 1973. **Phoenix Islands.** BAKER: Tsuda et al. 2008. KANTON: Degener & Gillaspy 1955.

Chondracanthus tenellus (Harvey) Hommersand

American Samoa & Samoa. UPOLU: Skelton & South 2007.

Chondrophycus cartilagineous (Yamada) Garbary & J.T. Harper

- Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.
Chondrophycus ceylanicus (J. Agardh) M.J. Wynne, Serio, Cormaci & G. Furnari [= *Laurencia ceylanica* J. Agardh]
American Samoa & Samoa. TUTUILA: Setchell 1924 as *Laurencia ceylanica*.
Chondrophycus dotyi (Y. Saito) K.W. Nam
Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.
Chondrophycus parvipapillatus (C.K. Tseng) Garbary & J.T. Harper
Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.
Chondrophycus succisa (Cribb) K.W. Nam [= *Laurencia succisa* Cribb]
American Samoa & Samoa. TUTUILA: Skelton & South 2007.
 UPOLU: Skelton & South 2002a, 2007. **Cook Islands.** RAROTONGA: N'Yeurt 1999 as *Laurencia succisa*. **Tonga.** Skelton & South 2007.
Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.
Choreonema thuretii (Bornet) F. Schmitz
American Samoa & Samoa. UPOLU: Skelton & South 2007.
Chroodactylon ornatum (C. Agardh) Basson [= *Asterocystis ornata* (C. Agardh)
 Hamel]
Johnston Atoll. Buggeln & Tsuda 1969 as *Asterocystis ornata*. **Line Islands.** PALMYRA: Doty 1954 as *A. ornata*, Dawson et al. 1955 as *A. ornata*. **Phoenix Islands.** ENDERBURY: South et al. 2001. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.
Chrysymenia kaernbachii Grunow
Line Islands. JARVIS: Tsuda et al. 2012.
Chrysymenia okamurae Yamada & Segawa
Johnston Atoll. Tsuda et al. 2010b. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.
Chylocladia rigens (C. Agardh) J. Agardh
Tonga. Grunow 1874.
Chylocladia uncinata Meneghini
American Samoa & Samoa. UPOLU: Grunow 1874, Reinbold 1896.
Tonga. TONGATAPU: Grunow 1874.
 Note: The status of this species is not clear.
Coelothrix irregularis (Harvey) Børgesen
American Samoa & Samoa. TUTUILA: Skelton & South 2007.
 UPOLU: Skelton & South 2002a, 2007. **Cook Islands.** AITUTAKI: Skelton & South 2007. **Line Islands.** JARVIS: Tsuda et al. 2012. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.
Colaconema gracile (Børgesen) Ateweberhan & Prud'homme [= *Acrochaetium gracile* Børgesen]

American Samoa & Samoa. UPOLU: Skelton & South 2002a as *Acrochaetium gracile*. **Line Islands.** PALMYRA: Dawson 1959b as *A. gracile*.

Colaconema hypneaе (Børgesen) A.A. Santos & C.W.N. Moura [= *Acrochaetium hypneaе* (Børgesen) Børgesen, *Acrochaetium seriatum* Børgesen]

Johnston Atoll. Tsuda et al. 2010b as *Acrochaetium hypneaе*. **Line Islands.** JARVIS: Tsuda et al. 2012 as *A. hypneaе*. **Wake Atoll.** Tsuda et al. 2010a as *A. hypneaе*.

Corallophila huysmansii (Weber-van Bosse) R.E. Norris [= *Ceramium huysmansii* Weber-van Bosse, *Ceramiella huysmansii* Børgesen]

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. UPOLU: Skelton & South 2002a, 2007. **Johnston Atoll.** Buggeln & Tsuda 1969 as *Ceramium huysmansii*, Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. TABUAERAN: Tsuda et al. 1973 as *Ceramium huysmansii*. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. MCKEAN: South et al. 2001. NIKUMARORO: South et al. 2001, Skelton & South 2007. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Corallophila itonoi (Ardré) R.E. Norris

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Johnston Atoll.** Tsuda et al. 2010b. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008.

Corallophila kleiwegii Weber-van Bosse [= *Centroceras apiculatum* Yamada, *Corallophila apiculata* (Yamada) R.E. Norris]

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. UPOLU: Skelton & South 2002a, 2007. **Johnston Atoll.** Hollenberg 1968d and Buggeln & Tsuda 1969 as *Centroceras apiculatum*, Coles et al. 2001 and Tsuda et al. 2010b as *Corallophila apiculata*. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. PALMYRA: Dawson 1959b as *Centroceras apiculatum*. TABUAERAN: Tsuda et al. 1973 as *Centroceras apiculatum*. **Phoenix Islands.** BAKER: Tsuda et al. 2008. MCKEAN: Hollenberg 1968d as *Centroceras apiculatum*. NIKUMARORO: Hollenberg 1968d as *Centroceras apiculatum*. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004 as *Corallophila apiculata*..

Corynocystis prostrata Kraft

American Samoa & Samoa. UPOLU: Skelton & South 2002a, 2007.

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Cottoniella filamentosa (M. Howe) Børgesen

Phoenix Islands. BAKER: Tsuda et al. 2008.

Crouania mageshimensis Itono

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Johnston Atoll.** Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012.

Crouania minutissima Yamada

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. TUTUILA: Skelton & South 2007. UPOLU: Skelton & South 2007. **Johnston Atoll.** Buggeln & Tsuda 1969, Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. **Phoenix Islands.** BAKER: Tsuda et al. 2008. MANRA: South et al. 2001. MCKEAN: South et al. 2001. Skelton & South 2007. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Crouania sp.

American Samoa & Samoa. UPOLU: Skelton & South 2002a as *Crouania* sp. aff. *C. attenuata* (C. Agardh) J. Agardh.

Cruoriella fissurata E.Y. Dawson [= *Cruoriella mariti* Weber-van Bosse]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Cruoriella mariti*.

Cruoriella mexicana (E.Y. Dawson) Denizot [= *Cruoriopsis mexicana* Dawson]

Line Islands. PALMYRA: Dawson et al. 1955 as *Cruoriopsis mexicana*.

Cryptonemia decumbens Weber-van Bosse

American Samoa & Samoa. TUTUILA: Setchell 1924.

Cryptonemia umbraticola E.Y. Dawson

Line Islands. JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. PALMYRA: Dawson 1959b (Type). **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Cryptonemia yendoi Weber-van Bosse

Line Islands. JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Cryptonemia sp.

Phoenix Islands. BAKER: Tsuda et al. 2008.

Dasya anastomosans (Weber-van Bosse) M.J. Wynne [= *Dasya adhaerens* Yamada, *Dasya pilosa* (Weber-van Bosse) A. Millar]

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Cook Islands.** RAROTONGA: Skelton & South 2007. **Johnston Atoll.** Buggeln & Tsuda 1969 as *Dasya adhaerens*. **Line Islands.** KINGMAN: Tsuda et al. 2012. **Phoenix Islands.** MANRA: Skelton & South 2001 as *Dasya pilosa*, Skelton & South 2007. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Dasya baillouiana (S.G. Gmelin) Montagne

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Dasya caraibica Børgesen

American Samoa & Samoa. TUTUILA: Skelton & South 2007.
UPOLU: Skelton & South 2007.

Dasya corymbifera J. Agardh

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Johnston Atoll.** Tsuda et al. 2010b.

Dasya iridescens (Schlech) A. Millar & I.A. Abbott

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Johnston Atoll.** Coles et al. 2001. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. **Wake Atoll.** Tsuda et al. 2010a.

Dasya iyengarii Børgeesen

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Line Islands.** KINGMAN: Tsuda et al. 2012.

Dasya kristeniae I.A. Abbott

Johnston Atoll. Coles et al. 2001, Tsuda et al. 2010b. **Phoenix Islands.** BAKER: Tsuda et al. 2008.

Dasya murrayana I.A. Abbott & A. Millar

Johnston Atoll. Coles et al. 2001.

Dasya pacifica Harvey ex J. Agardh

Tonga. HA 'AFEVA: Grunow 1874.

Dasya palmatifida (Weber-van Bosse) A. Millar & Coppejans [= *Eupogodon palmatifidus* (Weber-van Bosse) P.C. Silva, *Eupogodon geppii* (Weber-van Bosse) P.C. Silva]

American Samoa & Samoa. UPOLU: Skelton & South 2002a, 2007.

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004 as *Eupogodon geppii*.

Note: Indy et al. (2006) provided a taxonomic appraisal of *Exophyllum wentii* Weber-van Bosse and found that *E. wentii* reported from Samoa actually represented *Dasya palmatifida*.

Dasya sinicola (Setchell & N.L. Gardner) E.Y. Dawson

Johnston Atoll. Buggeln & Tsuda 1969.

Dasya spp.

American Samoa & Samoa. UPOLU: Skelton & South 2002a as *Dasya* sp. aff. *D. caraibica* Børgeesen, *Dasya* sp. aff. *D. iyengarii* Børgeesen, *Dasya* sp. aff. *D. pilosa* (Weber-van Bosse) Millar, *Dasya* sp. aff. *Dasya* sp. A in Price & Scott (1992). **Johnston Atoll.** Aegegian & Abbott 1985. **Phoenix Islands.** HOWLAND: Tsuda et al. 2008.

Dichotomaria marginata (J. Ellis & Solander) Lamarck [= *Galaxaura marginata* (J. Ellis & Solander) J.V. Lamouroux]

American Samoa & Samoa. TUTUILA: Skelton & South 2007 as

Dichotomaria australis (Sonder) Huisman, J.T. Harper & G.W. Saunders.

UPOLU: Grunow 1874, Reinbold 1896 and Skelton & South 2002a as *Galaxaura marginata*, Skelton & South 2007 as *D. australis*. **Cook**

- Islands.** RAROTONGA: N'Yeurt 1999 as *G. marginata*. **Line Islands.** PALMYRA: Braun et al. 2009. **Tonga.** TONGATAPU: Grunow 1874 as *G. marginata*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004. Note: N'Yeurt & Payri (2010) considered *D. australis* as a misapplied name (Skelton & South 2007) for *D. marginata*.
- Dichotomaria obtusata* (J. Ellis & Solander) Lamarck [= *Galaxaura obtusata* (J. Ellis & Solander) J.V. Lamouroux] **American Samoa & Samoa.** TUTUILA: Skelton & South 2007. UPOLU: Grunow 1874 and Reinbold 1896 as *Galaxaura obtusata*, Skelton & South 2002a as *G. obtusata*, Skelton & South 2007.
- Dicranema revolutum* (C. Agardh) J. Agardh [= *Dicranema grevillei* Sonder] **American Samoa & Samoa.** UPOLU: Grunow 1874 and Reinbold 1896 as *Dicranema (grevillei* var.?) *intermedium* Grunow.
- Dictyothamnion saltatum* A. Millar **American Samoa & Samoa.** UPOLU: Skelton & South 2007.
- Digenea simplex* (Wulfen) C. Agardh **Phoenix Islands.** BAKER: Tsuda et al. 2008.
- Diplothamnion gordoniae* Huisman **American Samoa & Samoa.** UPOLU: Skelton & South 2002a, 2007.
- Diplothamnion jolyi* C. Hoek **Johnston Atoll.** Coles et al. 2001. **Line Islands.** KINGMAN: Tsuda et al. 2012. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.
- Ditria reptans* Hollenberg **Cook Islands.** RAROTONGA: N'Yeurt & Payri 2010.
- Dotyella hawaiiensis* (Doty & Wainwright) Womersley & Shepley **Johnston Atoll.** Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012.
- Dotyella irregularis* I.A. Abbott **Line Islands.** KINGMAN: Tsuda et al. 2012.
- Dudresnaya hawaiiensis* R.K.S. Lee **American Samoa & Samoa.** UPOLU: Skelton & South 2002a, 2007.
- Erythrocolon podagricum* (J. Agardh) J. Agardh ex Kylin [= *Chylocladia podagrifica* J. Agardh] **Tonga.** HA'AFEVA: Grunow 1874 as *Chylocladia podagrifica*. TONGATAPU: Grunow 1874 as *C. podagrifica*.
- Erythrotrichia carnea* (Dillwyn) J. Agardh **American Samoa & Samoa.** SWAINS: Tsuda et al. 2011. UPOLU: Skelton & South 2002a, 2007. **Johnston Atoll.** Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. PALMYRA: Dawson 1959b. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.
- Erythrotrichia parietalis* Tak. Tanaka

Line Islands. PALMYRA: Dawson 1959b.

Euptilota articulata (J. Agardh) F. Schmitz

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Frikkiella pseudoprostrata (D.L. Ballantine & M.J. Wynne) M.J. Wynne & C. W. Schneider

American Samoa & Samoa. UPOLU: Skelton & South 2002a, 2007.

Galaxaura divaricata (Linnaeus) Huisman & R.A. Townsend [= *Galaxaura fasciculata* Kjellman]

American Samoa & Samoa. TUTUILA: Skelton & South 2007. UPOLU: Skelton & South 2002a, 2007. **Cook Islands.** RAROTONGA: N'Yeurt 1999 as *Galaxaura fasciculata*, Skelton & South 2007. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004 as *G. fasciculata*.

Galaxaura filamentosa R.C.Y. Chou [= *Galaxaura rудis* Kjellman]

American Samoa & Samoa. OFU-OLOSEGA (Nu‘utele): Skelton & South 2007. SWAINS: Tsuda et al. 2011. TUTUILA: Setchell 1924 as *Galaxaura rудis*, Skelton & South 2007. UPOLU: Skelton & South 2002a, 2007. **Cook Islands.** RAROTONGA: N'Yeurt 1999, Skelton & South 2007. **Johnston Atoll.** Tsuda et al. 2010b. **Line Islands.** PALMYRA: Braun et al. 2009. **Phoenix Islands.** BAKER: Tsuda et al. 2008. MANRA: South et al. 2001, Skelton & South 2007. MCKEAN: South et al. 2001, Skelton & South 2007. **Wake Atoll.** Tsuda et al. 2010a.

Galaxaura lichenoides (J. Ellis & Solander) Kützing

Tonga. TONGATAPU: Grunow 1874.

Note: The current status of this species is unclear.

Galaxaura rugosa (J. Ellis & Solander) J.V. Lamouroux [= *Galaxaura annulata* J.V. Lamouroux, *Galaxaura lapidescens* (J. Ellis & Solander) J.V. Lamouroux, *Galaxaura subfructiculosa* R. Chou]

American Samoa & Samoa. UPOLU: Grunow 1874 and Reinbold 1896 as *Galaxaura lapidescens* and *Galaxaura rugosa*. **Cook Islands.** MANGAIA: Dickie 1875 as *Galaxaura annulata* and *Galaxaura lapidescens*. RAROTONGA: N'Yeurt 1999 as *G. rugosa* and *G. subfructiculosa*. **Tonga.** TONGATAPU: Grunow 1874 as *G. lapidescens* and *G. rugosa*.

Galaxaura subverticillata Kjellman

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Note: As per Abbott (1999) and N'Yeurt & Payri (2004), this species is not synonymized under *Galaxaura rugosa*.

Ganonema farinosa (J.V. Lamouroux) K.C. Fan & Yung C. Wang [= *Galaxaura cliftoni* Harvey, *Liagora elongata* Zanardini]

American Samoa & Samoa. UPOLU: Grunow 1874 and Reinbold 1896 as *Galaxaura cliftoni*. **Tonga.** HA'AFEVA: Grunow 1874 as *Liagora elongata*. **Wake Atoll.** Tsuda et al. 2006.

Gayliella fimbriata (Setchell & N.L. Gardner) T.O. Cho & S.M. Boo [= *Ceramium fimbriatum* Setchell & N.L. Gardner]

Johnston Atoll. Buggeln & Tsuda 1969 as *Ceramium fimbriatum*.

Gayliella flaccida (Kützing) T.O. Cho & L. McIvor [= *Ceramium flaccidum* (Harvey ex Kützing) Ardisone, *Ceramium gracillimum* (Kützing) Zanardini, *Ceramium masonii* E.Y. Dawson, *Ceramium taylorii* E.Y. Dawson]

American Samoa & Samoa. OFU-OLOSEGA (Nu'utele): Skelton & South 2007 as *Ceramium flaccidum*. SWAINS: Tsuda et al. 2011. TUTUILA: Skelton & South 2007 as *C. flaccidum*. UPOLU: Reinbold 1896 as *C. flaccidum*, South & Skelton 2000 as *C. flaccidum*, Skelton & South 2002a, 2002b, 2007 as *C. flaccidum*. **Johnston Atoll.** Coles et al. 2001 as *C. flaccidum*, Tsuda et al. 2010b. **Line Islands.** PALMYRA: Dawson et al. 1955 as *Ceramium masonii*, Dawson 1959b as *Ceramium gracillimum* and *Ceramium taylorii*. TABUAERAN: Tsuda et al. 1973 as *C. gracillimum*. **Phoenix Islands.** BAKER: Tsuda et al. 2008. MCKEAN: South et al. 2001 and Skelton & South 2007 as *C. flaccidum*. ORONA: South et al. 2001 and Skelton & South 2007 as *C. flaccidum*. **Wake Atoll.** Tsuda et al. 2006 as *C. flaccidum*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004 as *C. flaccida*.

Note: N'Yeurt & Payri (2010) considered the widely used name of *Gayliella flaccida* in the Pacific islands as misapplied for *Gayliella transversalis*. Recently, A.D.R. N'Yeurt (Personal communication, 7 January 2013) suggested that both species occur in the Polynesian region.

Gayliella mazoyerae T.O. Cho, Fredericq & Hommersand [= *Ceramium byssoides* Harvey, *Ceramium gracillimum* var. *byssoideum* G. Mazoyer]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Ceramium byssoides*. **Johnston Atoll.** Buggeln & Tsuda 1969 as *Ceramium gracillimum* var. *byssoideum*. **Phoenix Islands.** BAKER: Tsuda & Trono 1968 as *Ceramium gracillimum* var. *byssoideum*. KANTON: Dawson 1959a as *C. gracillimum* var. *byssoideum*. **Tonga.** TONGATAPU: Grunow 1874 as *C. byssoides*.

Gayliella transversalis (Collins & Hervey) T.O. Cho & Fredericq

Line Islands. JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012.

Gelidiella acerosa (Forsskål) Feldmann & Hamel [= *Gelidium rigidum* (C. Agardh) Greville]

American Samoa & Samoa. Grunow 1874 and Reinbold 1896 as *Gelidium rigidum*. TUTUILA: Setchell 1924 as *Gelidium rigidum*. UPOLU: Reinbold 1896 as *G. rigidum*, Skelton & South 2007. **Cook Islands.** AITUTAKI: N'Yeurt 1999, Skelton & South 2007. MANGAIA: Dickie 1875 as *Gelidium rigidum*. **Phoenix Islands.** MCKEAN: South et al. 2001. **Tonga.** Grunow 1874 as *Gelidium rigidum*. TONGATAPU: Dickie 1876 as *G. rigidum*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Gelidiella bornetii (Weber-van Bosse) Feldmann & Hamel

Line Islands. PALMYRA: Dawson 1959b. TABUAERAN: Tsuda et al. 1973.

Gelidiella machrisiana E.Y. Dawson

Wake Atoll. Tsuda et al. 2010a as *Gelidiella* cf. *machrisiana*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Gelidiella myrioclada (Børgesen) Feldmann & Hamel

Line Islands. TABUAERAN: Tsuda et al. 1973.

Gelidiella pannosa (Feldmann) Feldmann & Hamel

American Samoa & Samoa. UPOLU: Skelton & South 2002b.

Gelidiella rigidiuscula (Feldmann) Feldmann & Hamel

Phoenix Islands. KANTON: Dawson 1959a.

Gelidium crinale (Hare ex Turner) Gaillon

American Samoa & Samoa. UPOLU: Reinbold 1907. **Johnston Atoll.** Buggeln & Tsuda 1969.

Gelidium delicatulum (Kützing) Setchell

American Samoa & Samoa. TUTUILA: Setchell 1924.

Gelidium musciforme (W.R. Taylor) Santelices [= *Pterocladia musciformis* W.R. Taylor]

Line Islands. PALMYRA: Dawson 1959b as *Pterocladia musciformis*.

Gelidium pulchellum (Turner) Kützing

Line Islands. TABUAERAN: Tsuda et al. 1973.

Gelidium pusillum (Stackhouse) Le Jolis

American Samoa & Samoa. UPOLU: Skelton & South 2002b as *Gelidium* sp. aff. *Gelidium pusillum*. **Cook Islands.** AITUTAKI: N'Yeurt 1999. **Johnston Atoll.** Buggeln & Tsuda 1969. **Line Islands.** TABUAERAN: DeWreede & Doty 1970, Tsuda et al. 1973. **Phoenix Islands.** KANTON: Dawson 1959a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Note: This alga is most likely *Gelidium isabelae* W.R. Taylor (Millar & Freshwater 2005) or *Pterocladia caerulescens* (Kützing) Santelices (Skelton & South 2007) instead of *Gelidium pusillum* which is not a Pacific species. N'Yeurt & Payri (2010) suggest that Pacific records of *Gelidium pusillum* should be ascribed to *G. isabelae*.

Gelidium samoense Reinbold

American Samoa & Samoa. TUTUILA: Setchell 1924, Skelton & South 2007. UPOLU: Reinbold 1907 (Type), Skelton & South 2007.

Gelidium spp.

American Samoa & Samoa. ROSE: Setchell 1924. **Phoenix Islands.** KANTON: Degener & Gillaspy 1955.

Gibsmithia hawaiensis Doty

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Gracilaria dumosa Harvey & Bailey

Tonga. Grunow 1874. TONGATAPU: Bailey & Harvey 1874 (Type).

Gracilaria ephemera Skelton, South & A. Millar

American Samoa & Samoa. UPOLU: Skelton et al. 2004 (Type), Skelton & South 2007.

Gracilaria gracilis (Stackhouse) M. Steentoft, L.M. Irvine & W.F. Farnham [= *Gracilaria confervoides* (Linnaeus) Greville]

American Samoa & Samoa. UPOLU: Grunow 1874 and Reinbold 1896 as *Gracilaria confervoides*. **Phoenix Islands.** MCKEAN: Grunow 1874 as *G. confervoides*.

Gracilaria maramae South

American Samoa & Samoa. UPOLU: Skelton & South 2007.

Gracilaria textorii (Suringar) De Toni

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Gracilaria spp.

Line Islands. TABUAERAN: DeWreede & Doty 1970. **Phoenix Islands.** BAKER: Tsuda et al. 2008. KANTON: Dawson 1959a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Gratelouphia filicina (J.V. Lamouroux) C. Agardh

Tonga. TONGATAPU: Grunow 1874.

Griffithsia heteromorpha Kützing

American Samoa & Samoa. OFU-OLOSEGA: Skelton & South 2007. UPOLU: Skelton & South 2002a, 2007. **Johnston Atoll.** Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. **Phoenix Islands.** ENDERBURY: South et al. 2001. MANRA: Skelton & South 2007. RAWAKI: South et al. 2001. **Tonga.** TONGATAPU: Grunow 1874.

Griffithsia metcalfii C.K. Tseng

Johnston Atoll. Buggeln & Tsuda 1969.

Griffithsia ovalis Harvey

Johnston Atoll. Buggeln & Tsuda 1969. **Line Islands.** TABUAERAN: Tsuda et al. 1973.

Griffithsia schousboei Montagne

Johnston Atoll. Coles et al. 2001.

Griffithsia subcylindrica Okamura

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. UPOLU: Skelton & South 2002a, 2007. **Cook Islands.** RAROTONGA: N'Yeurt 1999. **Johnston Atoll.** Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. **Wake Atoll.** Tsuda et al. 2010a.

Griffithsia sp.

Phoenix Islands. KANTON: Dawson 1959a.

Gymnothamnion elegans (Schousboe ex C. Agardh) J. Agardh

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Wake Atoll.** Tsuda et al. 2010a.

Gymnothamnion pteroton (Schousboe ex Bornet) Athanasiadis [= *Antithamnion pteroton* Schousboe ex Bornet]

American Samoa & Samoa. UPOLU: Reinbold 1907 as *Antithamnion pteroton*.

Haematocelis sp.

Cook Islands. AITUTAKI: Littler & Littler 2003.

Halichrysis irregularis (Kützing) A. Millar [= *Halichrysis coalescens* (Farlow) R.E. Norris & A. Millar]

American Samoa & Samoa. UPOLU: Skelton & South 2002a, 2007 as *Halichrysis coalescens*. **Line Islands.** JARVIS: Tsuda et al. 2012 as *H. coalescens*. **Wake Atoll.** Tsuda et al. 2010a as *H. coalescens*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004 as *H. coalescens*.

Halichrysis micans (Hauptfleisch) P. Huvé & H. Huvé

American Samoa & Samoa. UPOLU: Skelton & South 2007.

Haliptilon virgatum (Zanardini) Garbary & H.W. Johansen [= *Corallina granifera* J. Ellis & Solander]

American Samoa & Samoa. UPOLU: Reinbold 1907 as *Corallina granifera*.

Haloplegma duperreyi Montagne [= *Haloplegma africanum* Kützing]

American Samoa & Samoa. OFU-OLOSEGA: Skelton & South 2007. TUTUILA: Skelton & South 2007. UPOLU: Grunow 1874 and Reinbold 1896 as *Haloplegma africanum*, Skelton & South 2002a, 2007. **Johnston Atoll.** Tsuda et al. 2010b. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Halymenia actinophysa M.A. Howe

Line Islands. JARVIS: Tsuda et al. 2012 as *Halymenia* cf. *actinophysa*. KINGMAN: Tsuda et al. 2012 as *H. cf. actinophysa*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Halymenia durvillei Bory de Saint-Vincent [= *Halymenia formosa* Harvey ex Kützing]

American Samoa & Samoa. SAVAI'I: Skelton & South 2007. TUTUILA: Skelton & South 2007. UPOLU: Grunow 1874 as *Halymenia durvillei* and *H. formosa*, Reinbold 1896, 1907, Skelton & South 2002a as *Halymenia durvillei* and *Halymenia "floresia"* (Clemente) C. Agardh, 2007. **Tonga.** LIFUKA: Grunow 1874 as *H. durvillei* and *H. formosa*.

Note: Based on molecular data, Hernandez-Kantun et al. (2012) accredited *Halymenia floresii* records in the Indo-Pacific to *Halymenia durvillei* and cautiously agreed with De Smedt et al. (2001) that *H. formosa* may be synonymous with *H. durvillei*. *Halymenia floresii* is now considered an Atlantic and Mediterranean species.

Halymenia platycarpa (Harvey ex Grunow) J. Agardh [= *Sarcodia platycarpa* Harvey ex Grunow]

Tonga. TONGATAPU: Grunow 1874 as *Sarcodia platycarpa*.

Halymenia spp.

Phoenix Islands. BAKER: Tsuda et al. 2008. KANTON: Degener & Gillaspy 1955.

Herposiphonia arcuata Hollenberg

Johnston Atoll. Coles et al. 2001. **Line Islands.** JARVIS: Tsuda et al. 2012.

Herposiphonia calothrix (Harvey) Womersley

American Samoa & Samoa. UPOLU: Reinbold 1907.

Herposiphonia crassa Hollenberg

Johnston Atoll. Coles et al. 2001.

Herposiphonia delicatula Hollenberg

Johnston Atoll. Coles et al. 2001. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Herposiphonia dendroidea Hollenberg

Phoenix Islands. BIRNIE: Hollenberg 1968c. ENDERBURY: Hollenberg 1968c. HOWLAND: Hollenberg 1968c. NIKUMARORO: Hollenberg 1968c. RAWAKI: South et al. 2001.

Herposiphonia filifera Hollenberg

American Samoa & Samoa. OFU-OLOSEGA: Hollenberg 1968c. TUTUILA: Hollenberg 1968c (Type).

Herposiphonia nuda Hollenberg

Wake Atoll. Tsuda et al. 2010a.

Herposiphonia obscura Hollenberg

American Samoa & Samoa. TUTUILA: Hollenberg 1968c. **Johnston Atoll.** Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. KIRITIMATI: Hollenberg 1968c.

Phoenix Islands. BAKER: Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Herposiphonia pacifica Hollenberg

Johnston Atoll. Hollenberg 1968c, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012.

Herposiphonia parca Setchell

Johnston Atoll. Hollenberg 1968c, Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** JARVIS: Hollenberg 1968c. TABUAERAN: Tsuda et al. 1973. **Phoenix Islands.** HOWLAND: Tsuda et al. 2008.

Herposiphonia pectin-veneris (Harvey) Falkenberg [= *Polysiphonia pectin-veneris* Harvey]

American Samoa & Samoa. UPOLU: Grunow 1874 and Reinbold 1896 as *Polysiphonia pectin-veneris*.

Herposiphonia secunda (C. Agardh) Ambronn [= *Herposiphonia tenella* f. *secunda* (C. Agardh) Hollenberg]

American Samoa & Samoa. OFU-OLOSEGA (Nu‘usilaelae): Skelton & South 2007. SWAINS: Tsuda et al. 2011. TUTUILA: Skelton & South 2007. UPOLU: Skelton & South 2002a, 2007. **Johnston Atoll.** Hollenberg 1968c as *Herposiphonia tenella* f. *secunda*, Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** JARVIS: Hollenberg 1968c as *H. tenella* f. *secunda*, Tsuda et al. 2012. KIRITIMATI: Hollenberg 1968c as *H. tenella* f. *secunda*. PALMYRA: Dawson 1959b. **Phoenix Islands.** BAKER: Tsuda et al. 2008. KANTON: Degener & Gillaspy 1955 as *H. tenella*, Dawson 1959a.

Herposiphonia variabilis Hollenberg

Johnston Atoll. Hollenberg 1968c (Type), Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** JARVIS: Hollenberg 1968c, Tsuda et al. 2012. KIRITIMATI: Hollenberg 1968c.

Heteroderma subtilissimum (Foslie) Foslie

Line Islands. PALMYRA: Dawson 1959b.

Heterosiphonia crispella (C. Agardh) M.J. Wynne [= *Heterosiphonia wurdemannii* (Bailey ex Harvey) Falkenberg]

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. UPOLU: Skelton & South 2002a, 2007. **Johnston Atoll.** Buggeln & Tsuda 1969 as *Heterosiphonia wurdemannii* var. *laxa*, Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. PALMYRA: Dawson 1959b as *H. wurdemannii* var. *laxa*. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. KANTON: Dawson 1959a as *H. wurdemannii* var. *laxa*. MANRA: South et al. 2001. MCKEAN: South et al. 2001. ORONA: South et al. 2001. **Wake Atoll.** Tsuda et al. 2006. **Wallis & Futuna.** WALLIS: N’Yeurt & Payri 2004.

Hildenbrandia rubra (Sommerfelt) Meneghini

American Samoa & Samoa. UPOLU: Skelton & South 2007.

Hydrolithon craspedium (Foslie) P.C. Silva [= *Porolithon craspedium* (Foslie)
Foslie f. *mayorii* M.A. Howe]

American Samoa & Samoa. ROSE: Setchell 1924 as *Porolithon craspedium* f. *mayorii*. **Line Islands.** PALMYRA: Dawson 1959b as *P. craspedium*.

Hydrolithon farinosum (J.V. Lamouroux) Penrose & Y.M. Chamberlain [= *Melobesia farinosa* J.V. Lamouroux, *Fosliella farinosa* (J.V. Lamouroux) M. Howe]

American Samoa & Samoa. UPOLU: Grunow 1874 and Reinbold 1896 as *Melobesia farinosa*, Skelton & South 2007. **Line Islands.** TABUAERAN: Tsuda et al. 1973 as *Fosliella farinosa*. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Hydrolithon gardineri (Foslie) Verheij & Prud'homme [= *Porolithon gardineri* Foslie, *Porolithon marshallense* Taylor, *Lithophyllum craspedium* Foslie f. *abbreviatum* Foslie]

Line Islands. PALMYRA: Howe & Lyon 1916 as *Lithophyllum craspedium* f. *abbreviatum* and *Lithophyllum kaiseri* (Heydrich) Heydrich (see Dawson et al. 1955), Dawson et al. 1955 as *Porolithon gardineri* and *P. marshallense*. TABUAERAN: DeWreede & Doty 1970 and Tsuda et al. 1973 as *P. gardineri*.

Hydrolithon murakoshii H. Iryu & S. Matsuda

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Hydrolithon onkodes (Heydrich) D. Penrose & Woelkerling [= *Porolithon onkodes* (Heydrich) Foslie]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Porolithon onkodes*. UPOLU: Skelton & South 2007. **Line Islands.** PALMYRA: Dawson 1959b as *Porolithon "oncodes."* TABUAERAN: Tsuda et al. 1973 as *Porolithon onkodes*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Hydrolithon reinboldii (Weber-van Bosse & Foslie) Foslie [= *Goniolithon reinboldii* (Weber-van Bosse) Weber-van Bosse & Foslie]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Goniolithon reinboldii*. UPOLU: Foslie 1907 as *G. reinboldii*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Hydrolithon rupestre (Foslie) Penrose

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004 as *Hydrolithon rupestris*.

Hydrolithon samoense (Foslie) Keats & Y.M. Chamberlain [= *Lithophyllum samoense* Foslie]

American Samoa & Samoa. SAVAI'I: Foslie 1907 (Type)

Hydrolithon sp.

Phoenix Islands. MCKEAN: South et al. 2001.

- Hydropuntia edulis* (S.G. Gmelin) Gurgel & Fredericq [= *Gracilaria lichenoides* (Lamouroux) Greville]
American Samoa & Samoa. UPOLU: Grunow 1874 and Reinbold 1896, 1907 as *Gracilaria lichenoides*. **Line Islands.** TABUAERAN: Tsuda et al. 1973 as *G. lichenoides*. **Phoenix Islands.** KANTON: Degener & Gillaspy 1955 as *G. lichenoides*.
- Hydropuntia eucheumatooides* (Harvey) Gurgel & Fredericq [= *Gracilaria eucheumatooides* Harvey]
Tonga. HA'AFEVA: Grunow 1874 as *Gracilaria "eucheumoides"*.
- Hypnea cervicornis* J. Agardh
Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.
Note. Abbott (1999) and N'Yeurt & Payri (2004) recognized *Hypnea spinella* and *H. cervicornis* as two distinct taxa.
- Hypnea charoides* J.V. Lamouroux
Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.
- Hypnea divaricata* (C. Agardh) Greville
American Samoa & Samoa. UPOLU: Grunow 1874, Reinbold 1896, 1907. **Tonga.** TONGATAPU: Grunow 1874, Dickie 1876.
- Hypnea esperi* Bory de Saint-Vincent
Johnston Atoll. Buggeln & Tsuda 1969. **Phoenix Islands.** KANTON: Dawson 1959a.
- Hypnea hamulosa* (Esper) J.V. Lamouroux
Tonga. TONGATAPU: Grunow 1874, Dickie 1876.
- Hypnea japonica* Tak. Tanaka
Line Islands. TABUAERAN: Tsuda et al. 1973.
- Hypnea nidulans* Setchell
American Samoa & Samoa. TUTUILA: Setchell 1924 (Type). **Cook Islands.** AITUTAKI: N'Yeurt 1999.
- Hypnea pannosa* J. Agardh
American Samoa and Samoa. UPOLU: Grunow 1874, Reinbold 1896, Skelton & South 2002a, 2007. **Johnston Atoll.** Coles et al. 2001. **Line Islands.** KINGMAN: Tsuda et al. 2012. TABUAERAN: Tsuda et al. 1973. **Phoenix Islands.** BAKER: Tsuda et al. 2008. KANTON: South et al. 2001. MCKEAN: South et al. 2001. **Tonga.** LIFUKA: Grunow 1874. TONGATAPU: Grunow 1874. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.
- Hypnea rugulosa* Montagne
Cook Islands. MANGAIA: Dickie 1875.
- Hypnea saidana* Holmes
Cook Islands. AITUTAKI: N'Yeurt 1999. RAROTONGA: N'Yeurt 1999. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.
- Hypnea spinella* (C. Agardh) Kützing

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Johnston Atoll.** Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. PALMYRA: Dawson 1959b. TABUAERAN: Tsuda et al. 1973. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. KANTON: Degener & Gillaspy 1955. **Wake Atoll.** Tsuda et al. 2006. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Hypnea valentiae (Turner) Montagne

Johnston Atoll. Coles et al. 2001. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Hypnea spp.

Line Islands. TABUAERAN: DeWreede & Doty 1970. **Phoenix Islands.** BAKER: Tsuda & Trono 1968, Tsuda et al. 2008.

Hypoglossum anomalum M.J. Wynne & D.L. Ballantine

American Samoa & Samoa. TUTUILA: Skelton & South 2007. UPOLU: Skelton & South 2002a, 2007.

Hypoglossum caloglossoides M.J. Wynne & Kraft

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. TUTUILA: Setchell 1924 as *Caloglossa vieillardii* (Kützing) Setchell, misapplied name as per Skelton & South 2007. UPOLU: Skelton & South 2002a, 2007. **Johnston Atoll.** Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. **Phoenix Islands.** RAWAKI: South et al. 2001, Skelton & South 2007. **Wake Atoll.** Tsuda et al. 2010a.

Hypoglossum minimum Yamada

Line Islands. JARVIS: Tsuda et al. 2012.

Hypoglossum rhizophorum D.L. Ballantine & M.J. Wynne

American Samoa & Samoa. SWAINS: Tsuda et al. 2011.

Hypoglossum simulans M.J. Wynne, I.R. Price & D.L. Ballantine

American Samoa & Samoa. TUTUILA: Skelton & South 2007. UPOLU: Skelton & South 2002a, 2007. **Johnston Atoll:** Tsuda et al. 2010b. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Hypoglossum spp.

American Samoa & Samoa. UPOLU: Skelton & South 2002a. **Line Islands.** JARVIS: Tsuda et al. 2012. **Phoenix Islands.** ORONA: South et al. 2001.

Jania acutiloba (Decaisne) J.H. Kim, Guiry & H.-G. Choi [= *Cheilosporum jungermannioides* Ruprecht ex Areschoug, *Cheilosporum acutilobum* (Decaisne) Piccone]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Cheilosporum jungermannioides*, Skelton & South 2007 as *Cheilosporum acutilobum*. UPOLU: Skelton & South 2002a, 2007 as *C. acutilobum*.

Jania adhaerens J.V. Lamouroux

American Samoa & Samoa. TUTUILA: Setchell 1924. UPOLU: Skelton & South 2002a, 2007. **Cook Islands.** RAROTONGA: N'Yeurt 1999. **Johnston Atoll.** Coles et al. 2001. **Line Islands.** PALMYRA: Skelton & South 2007. **Phoenix Islands.** HOWLAND: Tsuda & Trono 1968 as *Jania capillacea* Harvey based on reexamination by RTT, Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Jania articulata N'Yeurt & Payri

Cook Islands. MANIHIKI: N'Yeurt & Payri 2009, 2010.

Jania capillacea Harvey

Line Islands. PALMYRA: Dawson et al. 1955, Dawson 1959b. TABUAERAN: Tsuda et al. 1973. **Phoenix Islands.** KANTON: Degener & Gillaspy 1955, Dawson 1959a. **Tonga.** NIUAFO'OU: Howe 1932.

Jania decussato-dichotoma (Yendo) Yendo

Line Islands. PALMYRA: Dawson et al. 1955.

Jania micrarthrodia J.V. Lamouroux

Phoenix Islands. ENDERBURY: South et al. 2001. KANTON: Dawson 1959a. MCKEAN: Grunow 1874, Schmidt 1928. RAWAKI: South et al. 2001.

Jania pacifica Areschoug

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda & Trono 1968 as *Jania micrarthrodia* J.V. Lamouroux based on reexamination, Tsuda et al. 2008.

Jania pumila J.V. Lamouroux [= *Corallina pumila* (J.V. Lamouroux) Kützing]

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. UPOLU: Reinbold 1907 as *Corallina pumila*, Skelton & South 2007. **Johnston Atoll.** Buggeln & Tsuda 1969 as *Jania capillacea* Harvey and *Jania decussato-dichotoma* (Yendo) Yendo, Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. **Phoenix Islands.** BAKER: Tsuda & Trono 1968 as *J. capillacea*, Tsuda et al. 2008. HOWLAND: Tsuda & Trono 1968 as *J. capillacea*, Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2006.

Jania rosea (Lamarck) Decaisne [= *Corallina cuvieri* J.V. Lamouroux]

Pitcairn Islands. PITCAIRN: Tsuda 1976 as *Corallina cuvieri*.

Jania rubens (Linnaeus) J.V. Lamouroux

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Line Islands.** KINGMAN: Tsuda et al. 2012.

Jania spectabile (Harvey ex Grunow) J.H. Kim, Guiry & H.-G. Choi [= *Cheilosporum spectabile* Harvey]

American Samoa & Samoa. TUTUILA: Setchell 1924 and Skelton & South 2007 as *Cheilosporum spectabile*. UPOLU: Grunow 1874 and Reinbold 1907 as *C. spectabile*, Skelton & South 2002a, 2007 as *C. spectabile*. **Cook Islands.** RAROTONGA: Chapman 1977 as *C. spectabile*. **Tonga.** Grunow 1874 as *C. spectabile*.

Jania subulata (J. Ellis & Solander) N'Yeurt & Payri

Pitcairn Islands. PITCAIRN: N'Yeurt & Payri 2010.

Jania tenella (Kützing) Grunow [= *Corallina tenella* Kützing]

American Samoa & Samoa. UPOLU: Grunow 1874 and Reinbold 1896, 1907 as *Corallina tenella*. **Cook Islands.** MANGAIA: Dickie 1875. RAROTONGA: Chapman 1977. **Line Islands.** PALMYRA: Dawson et al. 1955, Dawson 1959b. **Phoenix Islands.** KANTON: Dawson 1959a. **Tonga.** TONGATAPU: Grunow 1874, Dickie 1876.

Jania verrucosa J.V. Lamouroux [= *Jania natalensis* Harvey]

Line Islands. TABUAERAN: DeWreede & Doty 1970 and Tsuda et al. 1973 as *Jania natalensis*.

Kallymenia spp.

Johnston Atoll. Coles et al. 2001. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Laurencia brachyclados Pilger

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Laurencia caraibica P.C. Silva [= *Laurencia nana* M.A. Howe]

Phoenix Islands. BAKER: Tsuda & Trono 1968 as *Laurencia nana*. HOWLAND: Tsuda & Trono 1968 as *L. nana*. KANTON: Dawson 1959a as *L. nana*.

Laurencia cervicornis Harvey

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Laurencia filiformis (C. Agardh) Montagne

Tonga. TONGATAPU: Dickie 1876.

Laurencia flexilis Setchell

Cook Islands. AITUTAKI: N'Yeurt 1999. RAROTONGA: N'Yeurt 1999. **Tonga.** NIUAFO'OU: Howe 1932. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Laurencia intricata J.V. Lamouroux [= *Laurencia implicata* J. Agardh]

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004 as *Laurencia implicata*.

Laurencia majuscula (Harvey) A.H.S. Lucas

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Johnston Atoll.** Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2010a.

Laurencia mariannensis Yamada

Phoenix Islands. HOWLAND: Tsuda et al. 2008. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Laurencia microcladia Kützing

American Samoa & Samoa. UPOLU: Grunow 1874, Reinbold 1896. **Tonga.** TONGATAPU: Grunow 1874.

Laurencia nidifica J. Agardh

American Samoa & Samoa. TUTUILA: Setchell 1924.

Laurencia obtusa (Hudson) J.V. Lamouroux

American Samoa & Samoa. UPOLU: Grunow 1874, Reinbold 1896, 1907, Skelton & South 2007. **Cook Islands.** MANGAIA: Dickie 1875. RAROTONGA: Chapman 1977. **Tonga.** HA'AFEVA: Grunow 1874. TONGATAPU: Grunow 1874, Dickie 1876.

Laurencia sp.

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004 as *Laurencia* cf. *L.* sp. in Price & Scott 1992: 194.

Lejolisea colombiana W.R. Taylor

Line Islands. PALMYRA: Dawson 1959b.

Lejolisea pacifica Itono

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Johnston Atoll.** Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2010a.

Leveillea jungermannioides (K. Hering & G. Martens) Harvey [= *Polyzonia jungermannioides* (K. Hering & G. Martens) J. Agardh]

American Samoa & Samoa. UPOLU: Skelton & South 2002a, 2007. **Tonga.** HA'AFEVA: Grunow 1874 as *Polyzonia jungermannioides*.

Liagora australasica Sonder

Cook Islands. MANGAIA: Dickie 1875 as *Liagora australasica* Sonder “?”.

Liagora ceranoides J.V. Lamouroux [= *Liagora leprosa* J. Agardh]

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. UPOLU: Skelton & South 2002a, 2007. **Line Islands.** KINGMAN: Tsuda et al. 2012. **Tonga.** TONGATAPU: Grunow 1874 as *Liagora leprosa*.

Liagora fragilis Zanardini

American Samoa & Samoa. UPOLU: Reinbold 1907. **Tonga.** TONGATAPU: Grunow 1874.

Liagora hawaiiana Butters

Wake Atoll. Tsuda et al. 2010a.

Liagora hirta Harvey & Bailey

American Samoa & Samoa. Bailey & Harvey 1874. TUTUILA: Harvey & Bailey 1851 (Type), Setchell 1924.

Liagora viscida (Forsskål) C. Agardh

Cook Islands. MANGAIA: Dickie 1875.

Lithophyllum byssoides (Lamarck) Foslie [= *Lithothamnion byssoides* (Lamarck) Philippi]

American Samoa & Samoa. UPOLU: Reinbold 1896 as *Lithothamnion byssoides*.

*Lithophyllum flavescent*s Keats

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Lithophyllum insipidum W.H. Adey, R.A. Townsend & Boykins

Wallis & Futuna. WALLIS: Y'Yeurt & Payri 2004.

Lithophyllum kotschyanum Unger [= *Lithophyllum kaiserii* (Heydrich) Heydrich]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Lithophyllum kaiserii*. UPOLU: Foslie 1907 as *L. kaiserii*. **Line Islands.** PALMYRA: Howe & Lyon 1916 as *L. kaiserii*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Lithophyllum pustulatum (J.V. Lamouroux) Foslie [= *Melobesia pustulata* J.V. Lamouroux]

Cook Islands. MANGAIA: Dickie 1875 as *Melobesia pustulata*.

Lithophyllum pygmaeum (Heydrich) Heydrich [= *Lithophyllum moluccense* (Foslie) Foslie]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Lithophyllum moluccense*. **Cook Islands:** RAROTONGA: N'Yeurt 1999 as *L. moluccense*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Lithophyllum sp.

Cook Islands. RAROTONGA: N'Yeurt 1999.

Lithoporella melobesioides (Foslie) Foslie [= *Mastophora melobesioides* Foslie]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Mastophora melobesioides*. UPOLU: Foslie 1907 as *M. melobesioides*.

Lithothamnion darwini (Harvey) Areschoug

Cook Islands. MANGAIA: Dickie 1875.

Lithothamnion proliferum Foslie

American Samoa & Samoa. UPOLU: Skelton & South 2002a, 2007.

Phoenix Islands. ENDERBURY: South et al. 2001. **Wallis & Futuna.**

WALLIS: N'Yeurt & Payri 2004.

Lithothamnion spp.

Line Islands. PALMYRA: Dawson 1959b. **Phoenix Islands.** KANTON: Degener & Gillaspy 1955.

Lomathamnion epicodii E.M. Gordon

American Samoa & Samoa. UPOLU: Skelton & South 2007.

Lomentaria corallicola Børgesen

American Samoa & Samoa. UPOLU: Skelton & South 2002a, 2007.

Cook Islands. AITUTAKI: N'Yeurt 1999. **Wallis & Futuna.** WALLIS:

N'Yeurt & Payri 2004.

Lomentaria hakodatensis Yendo

Johnston Atoll. Buggeln & Tsuda 1969, Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. PALMYRA: Dawson 1959b. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2010a.

Lomentaria spp.

Phoenix Islands. BAKER: Tsuda & Trono 1968, Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. KANTON: Dawson 1959a.

Lophocladia trichoclados (C. Agardh) F. Schmitz

American Samoa & Samoa. UPOLU: Skelton & South 2002a, 2007. **Phoenix Islands.** KANTON: South et al. 2001, Skelton & South 2007.

Lophosiphonia bermudensis Collins & Hervey

Line Islands. PALMYRA: Dawson 1959b.

Lophosiphonia cristata Falkenberg

Wake Atoll. Hollenberg 1968d.

Lophosiphonia obscura (C. Agardh) Falkenberg [= *Polysiphonia obscura* (C. Agardh) J. Agardh]

American Samoa & Samoa. TUTUILA: Setchell 1924. **Tonga.** HA'AFEVA: Grunow 1874 as *Polysiphonia obscura*.

Lophosiphonia prostrata (Harvey) Falkenberg

Johnston Atoll. Coles et al. 2001.

Lophosiphonia sp.

American Samoa & Samoa. ROSE: Setchell 1924.

Malaconema minimum Hollenberg

Johnston Atoll. Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. **Wake Atoll.** Tsuda et al. 2010a.

Martensia flabelliformis Harvey ex J. Agardh

Tonga. HA'AFEVA: Grunow 1874.

Martensia fragilis Harvey

American Samoa & Samoa. OFU-OLOSEGA: Skelton & South 2007. UPOLU: Skelton & South 2002a, 2007. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Mastophora pacifica (Heydrich) Foslie

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Meristotheca papulosa (Montagne) J. Agardh

American Samoa & Samoa. UPOLU: Setchell 1943.

Note: Gabrielson & Kraft (1984) presented descriptions of both *Meristotheca papulosa* (Type) and *Meristotheca procumbens*. Setchell (1943) commented that the specimens possess the habit of *Halymenia ceylonica* Harvey, currently known as *Halymenia microcarpa* (Montagne) P.C. Silva.

- Meristotheca procumbens* P.W. Gabrielson & Kraft
American Samoa & Samoa. UPOLU: Skelton & South 2002a, 2007.
Cook Islands. RAROTONGA: N'Yeurt 1999. **Wallis & Futuna.**
 WALLIS: N'Yeurt & Payri 2004.
- Mesophyllum erubescens* (Foslie) Me. Lemoine
Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.
- Mesophyllum mesomorphum* (Foslie) Adey
Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.
- Mesophyllum simulans* (Foslie) Me. Lemoine [= *Lithothamnion simulans* (Foslie)
 Foslie]
American Samoa & Samoa. TUTUILA: Setchell 1924 as
Lithothamnion simulans.
- Monosporus indicus* Børgesen
Johnston Atoll. Coles et al. 2001. **Line Islands.** KINGMAN: Tsuda et
 al. 2012.
- Murrayella periclados* (C. Agardh) F. Schmitz
American Samoa & Samoa. TUTUILA: Hollenberg 1968d. UPOLU:
 Skelton & South 2002b, 2007.
- Myriogramme prostrata* (E.Y. Dawson, Neushul & Wildman) M.J. Wynne
American Samoa & Samoa. TUTUILA: Skelton & South 2007.
 UPOLU: Skelton & South 2002a, 2007.
- Neogoniolithon brassica-florida* (Harvey) Setchell & L.R. Mason [= *Goniolithon
 frutescens* Foslie, *Goniolithon laccadivicum* (Foslie) Foslie]
American Samoa & Samoa. TUTUILA: Setchell 1924 as *Goniolithon
 frutescens* and *G. laccadivicum*. UPOLU: Foslie 1907 as *G. frutescens*
 and *G. laccadivicum*. **Line Islands.** PALMYRA: Howe & Lyon 1916 as
Goniolithon frutescens, Dawson et al. 1955, Dawson 1959b as *G.
 frutescens*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.
- Neosiphonia apiculata* (Hollenberg) Masuda & Kogame [= *Polysiphonia
 apiculata* Hollenberg]
Line Islands. JARVIS: Tsuda et al. 2012. **Phoenix Islands.** BAKER:
 Tsuda et al. 2008. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004 as
Polysiphonia apiculata.
- Neosiphonia ferulacea* (Suhr ex J. Agardh) S.M. Guimarães & M.T. Fujii [=
Polysiphonia ferulacea Suhr ex J. Agardh, *Polysiphonia sparsa*
 (Setchell) Hollenberg]
American Samoa & Samoa. UPOLU: Skelton & South 2002a as
Polysiphonia sparsa, Skelton & South 2007. **Phoenix Islands.**
 KANTON: Dawson 1959a as *Polysiphonia ferulacea*, Hollenberg 1968a
 as *Polysiphonia sparsa*.
- Neosiphonia howei* (Hollenberg) Skelton & South [= *Polysiphonia howei*
 Hollenberg]

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. TUTUILA: Hollenberg 1968b as *Polysiphonia howei*. Skelton & South 2007. UPOLU: Skelton & South 2002b as *P. howei*, Skelton & South 2007. **Johnston Atoll.** Coles et al. 2001 as *P. howei*. **Line Islands.** TABUAERAN: Tsuda et al. 1973 as *P. howei*. **Wake Atoll.** Tsuda et al. 2010a.

Neosiphonia pok'o (Hollenberg) I.A. Abbott [= ***Polysiphonia pok'o Hollenberg***]
American Samoa & Samoa. UPOLU: Skelton & South 2002a. **Johnston Atoll.** Hollenberg 1968a as *Polysiphonia pok'o* (Type), Kraft & Abbott 2002, Tsuda et al. 2010b. **Line Islands.** JARVIS: Hollenberg 1968a as *P. pok'o*. KINGMAN: Tsuda et al. 2012. KIRITIMATI: Hollenberg 1968a as *P. pok'o*. **Phoenix Islands.** BIRNIE: Hollenberg 1968a as *P. pok'o*. ENDERBURY: Hollenberg 1968a as *P. pok'o*. MCKEAN: Hollenberg 1968a as *P. pok'o*. NIKUMARORO: Hollenberg 1968a as *P. pok'o*. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004 as *P. pok'o*.

Note: *Neosiphonia pok'o* is not listed by Skelton & South (2007) from Upolu.

Neosiphonia polyphysa (Kützing) Skelton & South [= *Polysiphonia polyphysa* Kützing, *Polysiphonia pentamera* Hollenberg]

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012.

Neosiphonia saccorrhiza (Collins & Hervey) J.M.C. Nunes & S.M. Guimarães [= *Polysiphonia saccorrhiza* (Collins & Hervey) Hollenberg]

Wake Atoll. Tsuda et al. 2010a as *Polysiphonia saccorrhiza*.

Neosiphonia savatieri (Hariot) M.S. Kim & I.K. Lee [= *Polysiphonia savatieri* Hariot]

American Samoa & Samoa. TUTUILA: Hollenberg 1968a as *Polysiphonia savatieri*, Skelton & South 2007. UPOLU: Skelton & South 2002a, 2007. **Line Islands.** KINGMAN: Tsuda et al. 2012. **Phoenix Islands.** BAKER: Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2010a.

Neosiphonia sphaerocarpa (Børgesen) M.S. Kim & I.K. Lee [= *Polysiphonia sphaerocarpa* Børgesen]

American Samoa & Samoa. TUTUILA: Hollenberg 1968a as *Polysiphonia sphaerocarpa*. **Johnston Atoll.** Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** TABUAERAN: Tsuda et al. 1973 as *Polysiphonia sphaerocarpa*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004 as *P. sphaerocarpa*.

Neosiphonia tepida (Hollenberg) S.M. Guimarães & M.T. Fujii [= *Polysiphonia tepida* Hollenberg]

Johnston Atoll. Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. **Wake Atoll.** Tsuda et al. 2006 as *Polysiphonia tepida*.

Neosiphonia tongatensis (Harvey ex Kützing) M.S. Kim & I.K. Lee [= *Polysiphonia tongatensis* Harvey ex Kützing]

American Samoa & Samoa. Reinbold 1896 as *Polysiphonia tongatensis*. TUTUILA: Setchell 1924 as *P. tongatensis*. **Tonga.** TONGATAPU: Martens 1866 and Grunow 1874 as *P. tongatensis*.

Neosiphonia upolensis (Grunow) M.S. Kim & S.M. Boo [= *Polysiphonia upolensis* (Grunow) Hollenberg]

American Samoa & Samoa. TUTUILA: Hollenberg 1968a. UPOLU: Grunow 1874, Reinbold 1896 and Skelton & South 2002a. **Johnston Atoll.** Hollenberg 1968a, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. PALMYRA: Hollenberg 1968a.

Note: All of the above references cite this species as *Polysiphonia upolensis*. Neither *Neosiphonia upolensis* nor *Polysiphonia upolensis* was cited by Skelton & South (2007) from Upolu.

***Neotonophycus ichthyosteus* Kraft & I.A. Abbott**

Johnston Atoll. Kraft & Abbott 2002 (Type).

Nitophyllum adhaerens M.J. Wynne

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Nitophyllum tongatense Grunow

Tonga. TONGATAPU: Grunow 1874.

Palisada perforata (Bory de Saint-Vincent) K.W. Nam [= *Laurencia papillosa* (C. Agardh) Greville, *Laurencia vaga* Kützing]

American Samoa & Samoa. SAVAI'I: Reinbold 1896 as *Laurencia vaga*. **Phoenix Islands.** MCKEAN: Grunow 1874 as *Laurencia papillosa*.

Palisada surculigera (C.K. Tseng) K.W. Nam [= *Laurencia surculigera* C.K. Tseng]

Line Islands. TABUAERAN: DeWreede & Doty 1970 and Tsuda et al. 1973 as *Laurencia surculigera*.

Palisada thujoides (Kützing) Cassano, Senties, Gil-Rodriguez & M.T. Fujii [= *Laurencia thujoides* Kützing]

Tonga. Grunow 1874 as *Laurencia thujoides*.

Parviphytus antipae (Celán) Santelices [= *Gelidiella antipae* Celán]

American Samoa & Samoa. SWAINS: Tsuda et al. 2011 as *Gelidiella antipae*. **Johnston Atoll.** Tsuda et al. 2010b as *Gelidiella* "antipai." **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012.

Parviphytus tenuissima (Feldmann & G. Hamel) Santelices [= *Gelidiella tenuissima* Feldmann & G. Hamel]

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Line Islands.** TABUAERAN: Tsuda et al. 1973 as *Gelidiella tenuissima*.

Peyssonnelia bornetii Boudouresque & Denizot

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Cook Islands.** RAROTONGA: N'Yeurt 1999. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Peyssonnelia conchicola Piccone & Grunow

Johnston Atoll. Coles et al. 2001. **Phoenix Islands.** ENDERBURY: South et al. 2001.

Peyssonnelia delicata Setchell

American Samoa & Samoa. TUTUILA: Setchell 1924 (Type).

Peyssonnelia dubyi P. Crouan & H. Crouan [= *Cruoriella dubyi* (P. Crouan & H. Crouan) Schmitz]

Line Islands. PALMYRA: Dawson 1959b as *Cruoriella dubyi*.

Peyssonnelia foveolata [= *Cruoriella foveolata* (Weber-van Bosse) Denizot]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Cruoriella foveolata*.

Peyssonnelia inamoena Pilger

American Samoa & Samoa. UPOLU: Skelton & South 2002a, 2007.

Johnston Atoll. Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012 as *Peyssonnelia* cf. *inamoena*. KINGMAN: Tsuda et al. 2012 as *P. cf. inamoena*. **Phoenix Islands.** BAKER: Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2010a as *Peyssonnelia* cf. *inamoena*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Peyssonnelia rubra (Greville) J. Agardh

American Samoa & Samoa. TUTUILA: Setchell 1924. UPOLU: Grunow 1874, Reinbold 1896, 1907. **Cook Islands.** RAROTONGA: Chapman 1977. **Line Islands.** PALMYRA: Dawson 1959b. TABUAERAN: DeWreede & Doty 1970, Tsuda et al. 1973.

Peyssonnelia spp.

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. UPOLU: Skelton & South 2007 as *Peyssonnelia* sp. inedit. **Phoenix Islands.** HOWLAND: Tsuda et al. 2008. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Platoma cyclocolpum (Montagne) F. Schmitz

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Pneophyllum conicum (E.Y. Dawson) D.W. Keats, Y.M. Chamberlain & M. Baba

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Pneophyllum fragile Kützing

American Samoa & Samoa. UPOLU: Skelton & South 2007.

Polysiphonia anomala Hollenberg

Johnston Atoll. Hollenberg 1968a, Coles et al. 2001, Tsuda et al. 2010b.

Line Islands. KINGMAN: Tsuda et al. 2012. **Phoenix Islands.**

RAWAKI: Hollenberg 1968a.

Polysiphonia calothrix (Harvey) Womersley

American Samoa & Samoa. UPOLU: Grunow 1874, Reinbold 1896.

Cook Islands. MANGAIA: Dickie 1875.

Polysiphonia codicola Zanardini

American Samoa & Samoa. UPOLU: Grunow 1874, Reinbold 1896.

Note: Further verification of this species is necessary (Guiry & Guiry 2012).

Polysiphonia corallicola Grunow

Tonga. TONGATAPU: Grunow 1874.

Note: The status of this species is not clear; it is not listed in Guiry & Guiry (2012).

Polysiphonia delicatula Hollenberg

Johnston Atoll. Coles et al. 2001, Tsuda et al. 2010b. **Phoenix Islands.**

BAKER: Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2010a. **Wallis &**

Futuna. WALLIS: N'Yeurt & Payri 2004.

Polysiphonia dotyi Hollenberg

Phoenix Islands. MCKEAN: Hollenberg 1968b.

Polysiphonia exilis Harvey

Johnston Atoll. Coles et al. 2001, Tsuda et al. 2010b.

Polysiphonia herpa Hollenberg

Line Islands. KIRITIMATI: Hollenberg 1968a.

Polysiphonia homoa Setchell & N.L. Gardner

Johnston Atoll. Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al.

2012. KINGMAN: Tsuda et al. 2012. **Phoenix Islands.** BAKER: Tsuda

et al. 2008. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.**

WALLIS: N'Yeurt & Payri 2004.

Polysiphonia mollis J.D. Hooker & Harvey

Phoenix Islands. KANTON: Dawson 1959a.

Polysiphonia pseudovillum Hollenberg

Johnston Atoll. Hollenberg 1968a (Type). **Line Islands.** JARVIS:

Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012.

Polysiphonia scopolorum Harvey [= *Lophosiphonia scopolorum* (Harvey) Womersley]

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. TUTUILA:

Setchell 1924, Hollenberg 1968a. **Johnston Atoll.** Hollenberg 1968a as

Polysiphonia scopolorum Harvey var. *minima* Hollenberg, Coles et al.

2001, Tsuda et al. 2010b. **Line Islands.** JARVIS: Hollenberg 1968a,

Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. KIRITIMATI:

Hollenberg 1968a. PALMYRA: Dawson 1959b as *Lophosiphonia*

scopulorum. TABUAERAN: DeWrede & Doty 1970, Tsuda et al. 1973.

Phoenix Islands. BAKER: Tsuda et al. 2008. MCKEAN: Hollenberg 1968a. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Polysiphonia sertularioides (Grateloup) J. Agardh [= *Polysiphonia flaccidissima* Hollenberg, *Neosiphonia flaccidissima* (Hollenberg) M.S. Kim & I.K. Lee]

American Samoa & Samoa. SWAINS: Tsuda et al. 2011 as *Polysiphonia flaccidissima*. **Johnston Atoll.** Hollenberg 1968a as *Polysiphonia flaccidissima* Hollenberg var. *decimera* Hollenberg, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. PALMYRA: Hollenberg 1968a as *Polysiphonia flaccidissima*. **Phoenix Islands.** KANTON: Dawson 1959a and Hollenberg 1968a as *P. flaccidissima*. **Wake Atoll.** Tsuda et al. 2010a as *Polysiphonia cf. flaccidissima*.

Polysiphonia setacea Hollenberg [= *Womersleyella setacea* (Hollenberg) R.E. Norris]

American Samoa & Samoa. TUTUILA: Hollenberg 1968a. UPOLU: Skelton & South 2007 as *Womersleyella setacea*. **Johnston Atoll.** Hollenberg 1968a, Tsuda et al. 2010b. **Wake Atoll.** Tsuda et al. 2006.

Note: Abbott (1999) cites *Polysiphonia setacea* over *Womersleyella setacea*.

Polysiphonia subtilissima Montagne

American Samoa & Samoa. UPOLU: Skelton & South 2002a.

Note: *Polysiphonia subtilissima* was not listed by Skelton & South (2007) from Upolu.

Polysiphonia triton P.C. Silva [= *Polysiphonia tenuis* Hollenberg]

Johnston Atoll. Hollenberg 1968a as *Polysiphonia tenuis* (Type).

Phoenix Islands. BAKER: Tsuda et al. 2008.

Polysiphonia tsudana Hollenberg

Johnston Atoll. Tsuda et al. 2010b as *Polysiphonia cf. tsudana*.

Polysiphonia spp.

Line Islands. PALMYRA: Dawson 1959b (3 spp.). TABUAERAN:

DeWrede & Doty 1970 (1 sp.). **Phoenix Islands.** ENDERBURY: South et al. 2001. NIKUMARORO: South et al. 2001.

Polystrata dura Heydrich [= *Cruoriella dura* (Heydrich) Weber-van Bosse]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Cruoriella dura*.

Portieria hornemannii (Lyngbye) P.C. Silva [= *Plocamium cincinnatum* Montagne]

Tonga. TONGATAPU: Grunow 1874 as *Portieria cincinnata* Montagne.

Predaea laciniosa Kraft

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Predaea weldii Kraft & I.A. Abbott

American Samoa & Samoa. UPOLU: Skelton & South 2002a, 2007.

Line Islands. KINGMAN: Tsuda et al. 2012. **Wallis & Futuna.**

WALLIS: N'Yeurt & Payri 2004.

Prionitis obtusa Sonder

American Samoa & Samoa. Grunow 1874, Reinbold 1896. TUTUILA: Setchell 1924.

Prionitis sp.

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Pterocladiella caerulescens (Kützing) Santelices & Hommersand [= *Pterocladia tropica* Dawson]

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Line Islands.**

JARVIS: Tsuda et al. 2012. PALMYRA: Dawson 1959b as

Pterocladia tropica. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Pterocladiella caloglossoides (M. Howe) Santelices

Johnston Atoll. Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.**

JARVIS: Tsuda et al. 2012. **Phoenix Islands.** BAKER: Tsuda et al.

2008. HOWLAND: Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2010a.

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Pterocladiella spp.

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. UPOLU: Skelton & South 2007. **Phoenix Islands.** KANTON: Dawson 1959a.

Ptilothamnion cladophorae (Yamada & Tak. Tanaka) Feldmann-Mazoyer

Johnston Atoll. Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.**

JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. **Phoenix Islands.**

BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008.

KANTON: South et al. 2001. NIKUMARORO: South et al. 2001. **Wake Atoll.**

Tsuda et al. 2010a.

Ptilothamnion subsimplex E.M. Gordon

American Samoa & Samoa. UPOLU: Skelton & South 2007.

Ptilothamnion sp.

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Rhodophyllis peltata Grunow

Tonga. TONGATAPU: Grunow 1874 (Type).

Rhodymenia corallina (Bory de Saint Vincent) Greville

Cook Islands. RAROTONGA: N'Yeurt & Payri 2010.

Rhodymenia divaricata E.Y. Dawson

American Samoa & Samoa. UPOLU: Skelton & South 2007.

Rhodymenia sp.

Line Islands. TABUAERAN: Tsuda et al. 1973.

Sarconema filiforme (Sonder) Kylin [= *Dicranema setaceum* Sonder]

American Samoa & Samoa. UPOLU: Grunow 1874 and Reinbold 1896 as *Dicranema setaceum*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Sebdenia sp.

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Spermothamnion sp.

Johnston Atoll. Coles et al. 2001, Tsuda et al. 2010b (may be *Tiffaniella* sp.). **Line Islands.** PALMYRA: Dawson 1959b.

Spirocladia barodensis Børgesen

Line Islands. JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012.

Spongoclonium caribaeum (Børgesen) M.J. Wynne [= *Pleonosporium caribaeum* (Børgesen) R. Norris]

American Samoa & Samoa. OFU-OLOSEGA: Skelton & South 2007 as *Pleonosporium caribaeum*. UPOLU: Skelton & South 2002a, 2007 as *P. caribaeum*.

Sporolithon erythraeum (Rothpletz) Kylin [= *Archaeolithothamnium erythraeum* (Rothpletz) Foslie]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Archaeolithothamnium erythraeum*. UPOLU: Foslie 1907 as *A. erythraeum*.

Sporolithon ptychoides Heydrich

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Sporolithon sibogae (Weber-van Bosse & Foslie) P.C. Silva [= *Archaeolithothamnium sibogae* Weber-van Bosse & Foslie]

American Samoa & Samoa. AUNU'U: Setchell 1924 as *Archaeolithothamnium sibogae*.

Spyridia filamentosa (Wulfen) Harvey [= *Spyridia spinella* Sonder]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Spyridia spinella*. **Tonga.** TONGATAPU: Grunow 1874. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Stylonema alsidii (Zanardini) K.M. Drew [= *Goniotrichum alsidii* (Zanardini) M.A. Howe]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Goniotrichum alsidii*. UPOLU: Skelton & South 2002a, 2007. **Johnston Atoll.** Buggeln & Tsuda 1969 as *Goniotrichum alsidii*, Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. TABUAERAN: Tsuda et al. 1973. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Stylonema cornu-cervi Reinsch

Line Islands. JARVIS: Tsuda et al. 2012.

Stylocladia sp.

Tonga. TONGATAPU: Grunow 1874 as *Goniotrichum ceramicola* Kützing.

Note: The status of *Goniotrichum ceramicola* is not clear; it is placed here since all species of *Goniotrichum* were transferred to the genus *Stylocladia*.

Taenioma perpusillum (J. Agardh) J. Agardh [= *Taenioma macrourum* Thuret]

American Samoa & Samoa. OFU-OLOSEGAGA: Skelton & South 2007.

UPOLU: Skelton & South 2007. **Johnston Atoll.** Buggeln & Tsuda 1969 as *Taenioma macrourum*, Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012.

Tiffaniella saccorrhiza (Setchell & N.L. Gardner) Doty & Meñez

American Samoa & Samoa. UPOLU: Skelton & South 2007.

Titanophora weberae Børgesen

American Samoa & Samoa. UPOLU: Skelton & South 2007.

Tolypiocladia glomerulata (C. Agardh) F. Schmitz

American Samoa & Samoa. TUTUILA: Setchell 1924. UPOLU: Skelton & South 2002a, 2007. **Wake Atoll.** Tsuda et al. 2006. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Tricleocarpa cylindrica (J. Ellis & Solander) Huisman & Borowitzka [= *Galaxaura fastigiata* Decaisne]

American Samoa & Samoa. UPOLU: Grunow 1874 and Reinbold 1896 as *Galaxaura fastigiata*, Skelton & South 2002a. **Cook Islands.** RAROTONGA: N'Yeurt 1999.

Tricleocarpa fragilis (Linnaeus) Huisman & R.A. Townsend [= *Galaxaura fragilis* (Lamarck) J.V. Lamouroux]

American Samoa & Samoa. UPOLU: Reinbold 1907 as *Galaxaura fragilis*, Skelton & South 2002a, 2007.

Womersleyella pacifica Hollenberg

Phoenix Islands. ENDERBURY: Hollenberg 1967.

Wrangelia anastomosans Yamada

Phoenix Islands. BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008.

Wrangelia argus (Montagne) Montagne

American Samoa & Samoa. OFU-OLOSEGAGA: Skelton & South 2007. UPOLU: Skelton & South 2002a, 2007. **Cook Islands.** RAROTONGA: N'Yeurt 1999. **Line Islands.** TABUAERAN: Tsuda et al. 1973. **Tonga.** TONGATAPU: Grunow 1874. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Wrangelia dumontii (E.Y. Dawson) I.A. Abbott

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Wurdemannia miniata (Sprengel) Feldmann & Hamel

Line Islands: KINGMAN: Tsuda et al. 2012. PALMYRA: Dawson 1959b. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Wurdemannia spp.

Johnston Atoll. Buggeln & Tsuda 1969. **Line Islands.** TABUAERAN: Tsuda et al. 1973.

Yamadaella caenomyce (Decaisne) I.A. Abbott [= *Liagora rugosa* Zanardini]
Tonga. TONGATAPU: Grunow 1874 as *Liagora rugosa*.

Yonagunia formosana (Okamura) S. Kawaguchi & Masuda [= *Prionitis formosana* (Okamura) S. Kawaguchi & H.D. Nguyen]

American Samoa & Samoa. TUTUILA: Skelton & South 2007 as *Prionitis formosana*. UPOLU: Skelton & South 2007 as *P. formosana*.

Ochrophyta

Asteronema breviarticulatum (J. Agardh) L.C. Ouriques & Z.L. Bouzon [= *Ectocarpus breviarticulatus* J. Agardh, *Hincksia breviarticulata* (J. Agardh) P.C. Silva]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Ectocarpus breviarticulatus*, Skelton 2003a. **Cook Islands.** RAROTONGA: Chapman 1977 as *E. breviarticulatus*, N'Yeurt 1999 as *Hincksia breviarticulata*. **Johnston Atoll.** Buggeln & Tsuda 1969 as *E. breviarticulatus*. **Line Islands.** TABUAERAN: Tsuda et al. 1973 as *E. breviarticulatus*. **Phoenix Islands.** BAKER: Tsuda et al. 2008. **Pitcairn Islands.** PITCAIRN: Tsuda 1976 as *E. breviarticulatus*. **Wake Atoll.** Tsuda et al. 2006.

Chnoospora implexa J. Agardh

American Samoa & Samoa. UPOLU: Grunow 1874, Reinbold 1896.

Cook Islands. RAROTONGA: N'Yeurt 1999. **Tonga.** LIFUKA: Grunow 1874.

Chnoospora minima (Hering) Papenfuss [= *Chnoospora fastigiata* v. *pacifica* J. Agardh, *Chnoospora pacifica* J. Agardh]

American Samoa & Samoa. Littler & Littler 2003. TUTUILA: Setchell 1924 as *Chnoospora pacifica*, Skelton 2003a as *Chnoospora implexa*. UPOLU: Skelton & South 2007. **Cook Islands.** RAROTONGA: Chapman 1977 as *Chnoospora fastigiata* v. *pacifica*, N'Yeurt 1999.

Chnoospora pannosa J. Agardh

American Samoa & Samoa. UPOLU: Grunow 1874, Reinbold 1896.

Colpomenia sinuosa (Mertens ex Roth) Derbès & Solier

American Samoa & Samoa. UPOLU: Skelton & South 2002a, 2007.

Cutleria irregularis I.A. Abbott & Huisman

Johnston Atoll. Tsuda et al. 2010b. **Wake Atoll.** Tsuda et al. 2010a.

Cutleria pacifica Grunow

American Samoa & Samoa. UPOLU: Grunow 1874, Reinbold 1896.

Cutleria sp.

American Samoa & Samoa. UPOLU: Reinbold 1907.

Dictyopteris plagiogramma (Montagne) Vickers [= *Haliseris plagiogramma* Montagne]

Wake Atoll. Bailey & Harvey 1874 as *Haliseris plagiogramma*.

Dictyopteris repens (Okamura) Børgesen

American Samoa & Samoa. OFU-OLOSEGA: Skelton & South 2004. TUTUILA: Birkeland et al. 1987, Skelton 2003a, Skelton & South 2004, 2007. UPOLU: Skelton & South 2002a, 2007. **Cook Islands.** RAROTONGA: N'Yeurt 1999. **Johnston Atoll.** Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. KANTON: Dawson 1959a, South et al. 2001, Skelton & South 2007. MCKEAN: South et al. 2001. ORONA: South et al. 2001. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Dictyota acutiloba J. Agardh

Pitcairn Islands. PITCAIRN: Tsuda 1976.

Dictyota adnata Zanardini

American Samoa & Samoa. Littler & Littler 2003.

Dictyota bartayresiana J.V. Lamouroux

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. TUTUILA: Skelton 2003a, Skelton & South 2004. UPOLU: Skelton & South 2002a as *Dictyota crispata* Lamouroux (misapplied name), Skelton & South 2007. **Cook Islands.** AITUTAKI: N'Yeurt 1999. RAROTONGA: N'Yeurt 1999. **Johnston Atoll.** Aegegian & Abbott 1985. **Wake Atoll.** Tsuda et al. 2006. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Dictyota ceylanica Kützing

Cook Islands. AITUTAKI: N'Yeurt 1999 as *Dictyota divaricata* Lamouroux. **Johnston Atoll.** Coles et al. 2001 as *D. divaricata*, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. PALMYRA: Dawson 1959b as *D. divaricata*. **Wake Atoll.** Tsuda et al. 2006. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004 as *D. divaricata*.

Note. *Dictyota divaricata* is considered a synonym of *Dictyota dichotoma* var. *intricata* (C. Agardh) Greville, a species restricted to the northeast Atlantic and Mediteranean Sea (De Clerck 2003).

Dictyota ciliolata Sonder ex Kützing [= *Dictyota ciliata* Sonder ex Kützing]

American Samoa & Samoa. UPOLU: Grunow 1874 and Reinbold 1896 as *Dictyota ciliata*. **Tonga.** HA'AFEVA: Grunow 1874 as *D. ciliata*.

Wake Atoll. Tsuda et al. 2006.

Dictyota friabilis Setchell

American Samoa & Samoa. TUTUILA: Birkeland et al. 1987, Skelton 2003a, Skelton & South 2004, 2007. UPOLU: Skelton & South 2007. **Johnston Atoll.** Tsuda et al. 2010b. **Line Islands.** PALMYRA: Dawson 1959b. TABUAERAN: DeWreede & Doty 1970, Tsuda et al. 1973. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda & Trono 1968. KANTON: Dawson 1959a. MCKEAN: South et al. 2001. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Dictyota hamifera Setchell

American Samoa & Samoa. OFU-OLOSEGAA: Skelton & South 2004. TUTUILA: Skelton 2003a. UPOLU: Skelton & South 2007.

Dictyota humifusa Hörnig, Schnetter & Coppejans

Line Islands. JARVIS: Tsuda et al. 2012.

Dictyota lata J.V. Lamouroux

American Samoa & Samoa. TUTUILA: Setchell 1924.

Dictyota sandvicensis Sonder

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Johnston Atoll.** Tsuda et al. 2010b. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2006.

Dictyota spp.

Phoenix Islands. NIKUMARORO: South et al. 2001. **Tonga.** HA'AFEVA: Grunow 1874. LIFUKA: Grunow 1874. Both as *Dictyota dichotoma* (Hudson) J.V. Lamouroux.

Note. *Dictyota dichotoma* is not a tropical Pacific species but restricted to the northeast Atlantic Ocean and Mediterranean Sea (De Clerck 2003).

Feldmannia indica (Sonder) Womersley & A. Bailey [= *Ectocarpus amicorum* Harvey, *Ectocarpus duchassaingianus* Grunow, *Ectocarpus indicus* Sonder, *Hincksia indica* (Sonder) J. Tanaka]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Ectocarpus duchassaingianus* and *E. indicus*, Skelton 2003a. UPOLU: Grunow 1874 as *Ectocarpus amicorum* and *E. indicus*, Reinbold 1896, Skelton & South 2002a, 2007. **Johnston Atoll.** Buggeln & Tsuda 1969 as *Ectocarpus indicus*. **Line Islands.** KINGMAN: Tsuda et al. 2012. PALMYRA: Dawson 1959b as *E. indicus*. TABUAERAN: DeWreede & Doty 1970 as *Ectocarpus indicus*, Tsuda et al. 1973. **Phoenix Islands.** BAKER: Tsuda & Trono 1968 as *E. indicus*. KANTON: Dawson 1959a as *E. indicus*. MCKEAN: Grunow 1874 as *E. amicorum*. **Tonga.** TONGATAPU: Grunow 1874 as *E. indicus*. **Wake Atoll.** Tsuda et al. 2010a.

Feldmannia irregularis (Kützing) Hamel [= *Ectocarpus irregularis* Kützing]

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Cook Islands.** RAROTONGA: Chapman 1977. **Johnston Atoll.** Buggeln & Tsuda 1969 as *Ectocarpus irregularis*. **Line Islands.** PALMYRA: Dawson 1959b. **Wake Atoll.** Tsuda et al. 2010a.

Feldmannia mitchelliae (Harvey) H.S. Kim [= *Ectocarpus mitchelliae* Harvey, *Hincksia mitchelliae* (Harvey) P.C. Silva]

American Samoa & Samoa. UPOLU: Skelton & South 2007 as *Hincksia mitchelliae*. **Tonga.** NIUAFO'OU: Howe 1932 as "near *E. mitchelliae* Harv." **Wake Atoll.** Tsuda et al. 2010a as *H. mitchelliae*.

Feldmannia sp.

American Samoa & Samoa. UPOLU: Skelton & South 2007.

Herpodiscus pulvinatus (J.D. Hooker & Harvey) Draisma, Prud'homme & H. Kawai [= *Sphacelaria pulvinata* J.D. Hooker & Harvey]

Cook Islands. MANGAIA: Dickie 1875 as *Sphacelaria pulvinata*.

Hincksia vanbosseae (Setchell & N.L. Gardner) Skelton & South [= *Ectocarpus vanbosseae* Setchell & N.L. Gardner]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Ectocarpus vanbosseae*, Skelton & South 2007 (new combination).

Hormophysa cuneiformis (J. Gmelin) P.C. Silva [= *Hormophysa triquetra* (C. Agardh) Kützing]

Tonga. Papenfuss 1967 as *Hormophysa triquetra*.

Hydroclathrus clathratus (C. Agardh) Howe [= *Asperococcus clathratus* (C. Agardh) J. Agardh, *Hydroclathrus cancellatus* Bory de Saint-Vincent]

American Samoa & Samoa. UPOLU: Grunow 1874 as *Asperococcus clathratus*, Reinbold 1896 as *Hydroclathrus cancellatus*, Skelton & South 2002a, 2007. **Cook Islands.** RAROTONGA: N'Yeurt 1999.

Tonga. TONGATAPU: Grunow 1874 as *A. clathratus*.

Kuetzingiella elachistaeformis (Heydrich) M.S. Balakrishnan & Kinkar

Johnston Atoll. Tsuda et al. 2010b.

Lobophora papenfussii (W.R. Taylor) Farghaly [= *Pocockiella papenfussii* W.R. Taylor]

Line Islands. PALMYRA: Dawson 1959b as *Pocockiella papenfussii*.

Lobophora variegata (J.V. Lamouroux) Womersley ex E.C. Oliveira [= *Zonaria variegata* (J.V. Lamouroux) C. Agardh, *Pocockiella variegata* (J.V. Lamouroux) Papenfuss]

American Samoa & Samoa. OFU-OLOSEGA: Skelton & South 2004. SWAINS: Tsuda et al. 2011. TUTUILA: Skelton 2003a, Skelton & South 2004. UPOLU: Skelton & South 2002a, 2007. **Cook Islands.**

AITUTAKI: N'Yeurt 1999. MANGAIA: N'Yeurt & Payri 2006.

RAROTONGA: N'Yeurt 1999. **Johnston Atoll.** Buggeln & Tsuda 1969

as *Pocockiella variegata*, Aegegian & Abbott 1985, Coles et al. 2001.

Line Islands. JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al.

2012. MILLENNIUM: Barott et al. 2010. PALMYRA: Dawson 1959b as *P. variegata*, Braun et al. 2009. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. KANTON: Dawson 1959a as *P. variegata*, South et al. 2001. **Pitcairn Islands.** PITCAIRN: Tsuda 1976.

Tonga. TONGATAPU: Dickie 1876 as *Zonaria variegata*. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Mesospora pangoensis (Setchell) Chihara & J. Tanaka [= *Hapalospongion pangoensis* (Setchell) Hollenberg, *Ralfsia pangoensis* Setchell]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Ralfsia pangoensis* (Type).

Neoralfsia expansa (J. Agardh) P.E. Lim & H. Kawai ex Kraft [= *Ralfsia expansa* (J. Agardh) J. Agardh]

American Samoa & Samoa. Littler & Littler 2003 and Skelton & South 2004 as *Ralfsia expansa*. UPOLU: Skelton & South 2007 as *R. expansa*.

Padina australis Hauck

Cook Islands. RAROTONGA: N'Yeurt 1999.

Padina boryana Thivy [= *Padina commersonii* Bory]

American Samoa & Samoa. TUTUILA: Skelton 2003a, Skelton & South 2004. UPOLU: Reinbold 1907 as *Padina commersonii*, Skelton & South 2002a as *Padina australis* Hauck (misapplied name), Skelton & South 2007. **Cook Islands:** RAROTONGA: N'Yeurt 1999. **Tonga.** Taylor 1966 (Type). **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Padina melemele I.A. Abbott & Magruder

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Padina minor Yamada

Wake Atoll: Tsuda et al. 2006.

Padina pavonica (Linnaeus) Thivy [= *Padina pavonia* J.V. Lamouroux]

American Samoa & Samoa. UPOLU: Grunow 1874 and Reinbold 1896 as *Padina pavonia*. **Cook Islands.** RAROTONGA: Chapman 1977 as *P. pavonia*. **Tonga.** TONGATAPU: Bailey & Harvey 1874, Grunow 1874 and Dickie 1876 as *P. pavonia*. **Wake Atoll.** Bailey & Harvey 1874 as *Padina pavonia*, Tsuda et al. 2006 as *Padina boryana* Thivy.

Padina sp.

Phoenix Islands. BAKER: Tsuda et al. 2008.

Rosenvingea intricata (J. Agardh) Børgesen [= *Asperococcus intricatus* J. Agardh]

American Samoa & Samoa. UPOLU: Grunow 1874 and Reinbold 1896 as *Asperococcus intricatus*, Skelton & South 2002a, 2007. **Cook Islands.** RAROTONGA: N'Yeurt 1999. **Johnston Atoll.** Coles et al. 2001 as *Rosenvingea* sp. (reexamined), Tsuda et al. 2010b. **Wake Atoll.** Tsuda et al. 2006.

Rugulopteryx radicans (Harvey) DeClerck & Coppejans [= *Dictyota radicans* Harvey]

Tonga. TONGATAPU: Dickie 1876 as *Dictyota radicans*.

Sargassum aquifolium (Turner) C. Agardh [= *Sargassum anapense* Setchell & N.L. Gardner, *Sargassum binderi* Sonder ex J. Agardh, *Sargassum crassifolium* J. Agardh, *Sargassum echinocarpum* J. Agardh, *Sargassum fonianonense* Setchell & N.L. Gardner]

American Samoa & Samoa. Reinbold 1896 as *Sargassum echinocarpum*. TUTUILA: Setchell 1924 as *Sargassum anapense* and *S. fonianonense*, Skelton 2003a as *S. anapense*. UPOLU: Reinbold 1907 as *Sargassum crassifolium*, Skelton & South 2007 as *S. crassifolium*.

Tonga. NIUAFO'OU: Howe 1932 as *S. anapense*. TONGATAPU: Grunow 1915.

Note: Mattio et al. (2009) considered *S. binderi*, *S. crassifolium* and *S. echinocarpum* synonyms of the earlier described *S. aquifolium*.

Sargassum ilicifolium (Turner) C. Agardh [= *Sargassum cristaefolium* C. Agardh]

American Samoa & Samoa. OFU-OLOSEGA: Skelton & South 2004 as *Sargassum cf. cristaefolium*. TUTUILA: Skelton & South 2007 as *S. cristaefolium*. UPOLU: Grunow 1874 as *S. cristaefolium*, Reinbold 1896 as *S. cristaefolium*, Skelton & South 2002a, 2007 as *S. cristaefolium*.

Tonga. NIUAFO'OU: Howe 1932 as *S. cristaefolium*.

Note: Mattio et al. (2009) showed through morphological characters and DNA analyses that *Sargassum cristaefolium* was synonymous with *S. ilicifolium*.

Sargassum novae-hollandiae P.C. Silva [= *Sargassum stenophyllum* J. Agardh]

Cook Islands. RAROTONGA: Chapman 1977 as *Sargassum stenophyllum*.

Sargassum odontocarpum Sonder [= *Sargassum coriifolium* J. Agardh]

American Samoa & Samoa. UPOLU: Reinbold 1907 as *Sargassum coriifolium*. **Pitcairn Islands.** PITCAIRN: Tsuda 1976 as *Sargassum coriifolium*.

Sargassum pacificum Bory de Saint-Vincent [= *Sargassum mangareverse* (Grunow) Setchell, *Sargassum tahitense* Grunow]

Cook Islands. RAROTONGA: Chapman 1977 as *Sargassum cymosum* C. Agardh v. *tahitense* (Grunow) Chapman, N'Yeurt 1999 as *Sargassum mangareverse* and *Sargassum* sp.

Sargassum parvifolium (Turner) C. Agardh

Tonga. TONGATAPU: Bailey & Harvey 1874.

Sargassum polycystum C. Agardh

American Samoa & Samoa. UPOLU: Skelton & South 2002a, 2007.

Cook Islands. RAROTONGA: Chapman 1977, Skelton & South 2007.

Tonga. TONGATAPU: Bailey & Harvey 1874 as *Sargassum "polycistum,"* Grunow 1874. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004, Mattio et al. 2009.

Sargassum polyphyllum J. Agardh

Cook Islands. MANGAIA: Dickie 1875.

Sargassum tenerrimum J. Agardh

American Samoa & Samoa. Littler & Littler 2003.

Sargassum vulgare C. Agardh

Cook Islands. MANGAIA: Dickie 1875.

Spatoglossum macrodontum J. Agardh

American Samoa & Samoa. UPOLU: Skelton & South 2007.

Sphacelaria ceylanica Sauvageau

American Samoa & Samoa. TUTUILA: Setchell 1924.

Sphacelaria cornuta Sauvageau

American Samoa & Samoa. TUTUILA: Setchell 1924.

Sphacelaria novaehollandiae Sonder

American Samoa & Samoa. SAVAI'I: Skelton & South 2007. UPOLU: Skelton & South 2002a, 2007. **Johnston Atoll.** Buggeln & Tsuda 1969, Coles et al. 2001, Tsuda et al. 2010b. **Wake Atoll.** Tsuda et al. 2010a.

Sphacelaria rigidula Kützing [= *Sphacelaria furcigera* Kützing, *Sphacelaria carolinensis* Trono]

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Johnston Atoll.** Buggeln & Tsuda 1969 as *Sphacelaria furcigera*, Tsuda et al. 2010b. **Line Islands.** PALMYRA: Dawson et al. 1955, Dawson 1959b as *S. furcigera.* TABUAERAN: Tsuda et al. 1973 as *Sphacelaria carolinensis.* **Phoenix Islands.** KANTON: Dawson 1959a as *S. furcigera.* **Wake Atoll.** Tsuda et al. 2010a.

Sphacelaria tribuloides Meneghini

American Samoa & Samoa. TUTUILA: Birkeland et al. 1987.

Johnston Atoll. Buggeln & Tsuda 1969, Coles et al. 2001. **Line Islands.** TABUAERAN: Tsuda et al. 1973. **Pitcairn Islands.** PITCAIRN: Tsuda 1976. **Wake Atoll.** Tsuda et al. 2006. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Sphacelaria spp.

Line Islands. PALMYRA: Dawson 1959b. **Phoenix Islands.** BAKER: Tsuda & Trono 1968. KANTON: Dawson 1959a.

Stylopodium australasicum (Zanardini) Allender & Kraft

Pitcairn Islands. PITCAIRN: N'Yeurt & Payri 2006.

Turbinaria conoides (J. Agardh) Kützing

American Samoa & Samoa. UPOLU: Reinbold 1907, Taylor 1964.

Cook Islands. RAROTONGA: Chapman 1977. **Phoenix Islands.**

KANTON: Taylor 1964. **Tonga.** Taylor 1964. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Turbinaria ornata (Turner) J. Agardh [= *Turbinaria trialata* (J. Agardh) Kützing]

American Samoa & Samoa. SAVAI'I: Taylor 1964. TUTUILA: Setchell 1924, Taylor 1964, Skelton 2003a. UPOLU: Reinbold 1907, Taylor 1964, Skelton & South 2002a, 2007. **Cook Islands.** MANGAIA: Dickie 1875. MANIHITI: Cranwell 1933. RAROTONGA: Taylor 1964, Chapman 1977, N'Yeurt 1999. **Line Islands.** JARVIS: Taylor 1964, Tsuda et al. 2012. KIRITIMATI: Taylor 1964. PALMYRA: Dawson et al. 1955 and Dawson 1959b as *Turbinaria trialata*, Taylor 1964. TABUAERAN: DeWreede & Doty 1970, Tsuda et al. 1973. **Phoenix Islands.** BAKER: Tsuda & Trono 1968, Tsuda et al. 2008. KANTON: Degener & Gillaspy 1955, Dawson 1959a as *Turbinaria ornata* and *Turbinaria trialata*, Taylor 1964. ORONA: South et al. 2001. **Tonga.** NIUAFO'OU: Howe 1932, Taylor 1964, TONGATAPU: Taylor 1964. **Wake Atoll.** Bailey & Harvey 1874. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Turbinaria vulgaris J. Agardh

American Samoa & Samoa. UPOLU: Reinbold 1896. **Tonga.** TONGATAPU: Bailey & Harvey 1874.

Note: This species has not been reported from the central Pacific islands for more than a century.

Zonaria obscura Dickie

Cook Islands. MANGAIA: Dickie 1875 (Type).

Chlorophyta

Acetabularia calyculus J.V. Lamouroux

Tonga. TONGATAPU: Dickie 1876.

Anadyomene stellata (Wulfen) C. Agardh

American Samoa & Samoa. UPOLU: Skelton & South 2007.

Anadyomene wrightii Harvey ex Gray

Line Islands. PALMYRA: Dawson 1959b.

Anadyomene sp.

American Samoa & Samoa. Littler & Littler 2003.

Avrainvillea amadelpha (Montagne) A. Gepp & E. Gepp

Line Islands. KINGMAN: Tsuda et al. 2012. **Phoenix Islands.**

HOWLAND: Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2006.

Avrainvillea lacerata Harvey ex J. Agardh

Line Islands. KINGMAN: Tsuda et al. 2012. PALMYRA: Dawson 1959b. TABUAERAN: DeWreede & Doty 1970, Tsuda et al. 1973.

Phoenix Islands. HOWLAND: Tsuda et al. 2008. **Tonga.** VAVA‘U: N’Yeurt & Payri 2007. **Wake Atoll.** Tsuda et al. 2010a.

Boergesenia forbesii (Harvey) Feldmann [= *Valonia forbesii* Harvey]

American Samoa & Samoa. OFU-OLOSEGA: Skelton & South 2004. TUTUILA: Skelton 2003a, Skelton & South 2004. UPOLU: Reinbold 1896 as *Valonia forbesii*, Skelton & South 2007. **Wallis & Futuna.** WALLIS: N’Yeurt & Payri 2004.

Boodlea composita (Harvey) F. Brand [= *Boodlea siamensis* Reinbold]

American Samoa & Samoa. UPOLU: Reinbold 1907 as *Boodlea siamensis*, Skelton & South 2002b, 2007. **Cook Islands.** AITUTAKI: N’Yeurt 1999. **Johnston Atoll.** Buggeln & Tsuda 1969. **Line Islands.** PALMYRA: Dawson et al. 1955. TABUAERAN: DeWreede & Doty 1970. **Phoenix Islands.** KANTON: Dawson 1959a. **Wallis & Futuna.** WALLIS: N’Yeurt & Payri 2004.

Boodlea montagneyi (Harvey ex J.E. Gray) Egerod [= *Microdictyon montagneyi* Harvey ex J.E. Gray]

American Samoa & Samoa. TUTUILA: Skelton 2003a, Skelton & South 2004. **Cook Islands.** MANGAIA: Dickie 1875 as *Microdictyon montagneyi*.

Boodlea vanbosseae Reinbold

American Samoa & Samoa. Littler & Littler 2003. TUTUILA: Setchell 1924, Skelton 2003a. **Line Islands.** PALMYRA: Dawson 1959b. TABUAERAN: Tsuda et al. 1973. **Phoenix Islands.** BAKER: Tsuda et al. 2008.

Boodleopsis carolinensis Trono

American Samoa & Samoa. UPOLU: Skelton & South 2002b, 2007.

Bryopsis arbuscula (A.P. de Candolle) J.V. Lamouroux

American Samoa & Samoa. UPOLU: Reinbold 1896.

Note. This species has not been reported from Samoa for more than a century.

Bryopsis caespitosa Suhr ex Kützing

American Samoa & Samoa. UPOLU: Reinbold 1896.

Bryopsis hypnoides J.V. Lamouroux

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. TABUAERAN: Tsuda et al. 1973. **Wake Atoll.** Tsuda et al. 2010a.

Bryopsis pennata J.V. Lamouroux [= *Bryopsis harveyana* J. Agardh]

American Samoa & Samoa. Littler & Littler 2003. SWAINS: Tsuda et al. 2011. TUTUILA: Setchell 1924 as *Bryopsis harveyana*, Skelton 2003a. UPOLU: Skelton & South 2002a, 2007. **Cook Islands.** MANIHIKI: Cranwell 1933 as *B. harveyana*. **Johnston Atoll.** Buggeln & Tsuda 1969, Coles et al. 2001 as *Bryopsis pennata* and *B. hypnoides*

(misapplied name), Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. PALMYRA: Dawson et al. 1955, Dawson 1959b. TABUAERAN: DeWreede & Doty 1970, Tsuda et al. 1973. **Niue.** Chapman 1977. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. KANTON: Dawson 1959a. MCKEAN: South et al. 2001. **Pitcairn Islands.** PITCAIRN: Tsuda 1976. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Bryopsis pottsii Setchell

American Samoa & Samoa. TUTUILA: Setchell 1924 (Type).

Caulerpa bikinensis W.R. Taylor

Johnston Atoll. Aegeian & Abbott 1985, Tsuda et al. 2010b.

Caulerpa biserrulata Sonder

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Caulerpa brachypus Harvey

Line Islands. PALMYRA: Taylor 1977.

Caulerpa cypresoides (J.A. West) C. Agardh [= *Caulerpa mamillosa* Montagne]

American Samoa & Samoa. TUTUILA: Skelton 2003a, Skelton & South 2004. OFU-OLOSEGA: Skelton & South 2004. ROSE: Setchell 1924. **Cook Islands.** MANIHIKI: Cranwell 1933. RAROTONGA: N'Yeurt 1999. **Line Islands.** KIRITIMATI: Taylor 1966, 1977. PALMYRA: Braun et al. 2009. TABUAERAN: Taylor 1977. **Phoenix Islands.** ENDERBURY: South et al. 2001. KANTON: South et al. 2001. ORONA: South et al. 2001. RAWAKI: South et al. 2001. **Wake Atoll.** Bailey & Harvey 1874 as *Caulerpa mamillosa*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Caulerpa distichophylla Sonder

Tonga. TONGATAPU: Dickie 1876.

Caulerpa falcifolia Harvey & Bailey

Tonga. LIFUKU: Bailey & Harvey 1874. TONGATAPU: Harvey & Bailey 1851 (Type), Bailey & Harvey 1874. VAVA'U: Bailey & Harvey 1874.

Caulerpa fastigiata Montagne

Line Islands. TABUAERAN: Tsuda et al. 1973.

Caulerpa lentillifera J. Agardh

Johnston Atoll. Coles et al. 2001.

Caulerpa mexicana Sonder ex Kützing [= *Caulerpa crassifolia* (C. Agardh) J. Agardh]

Phoenix Islands. KANTON: Degener & Gillaspy 1955 as *Caulerpa crassifolia*.

Caulerpa nummularia Harvey ex J. Agardh

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Johnston Atoll.** Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Caulerpa peltata J.V. Lamouroux [= *Caulerpa macrodisca* Decaisne]

American Samoa & Samoa. AUNU'U: Setchell 1924. SAVAI'I: Skelton & South 2007. TUTUILA: Setchell 1924, Skelton 2003a. UPOLU: Reinbold 1896. Skelton & South 2002a, 2007. **Cook Islands.** AITUTAKI: N'Yeurt 1999, Skelton & South 2007. MANGAIA: Dickie 1875 as *Caulerpa macrodisca*. RAROTONGA: N'Yeurt 1999. **Line Islands.** TABUAERAN: Taylor 1977. **Phoenix Islands.** KANTON: Degener & Gillaspy 1955. MCKEAN: South et al. 2001, Skelton & South 2007. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Caulerpa racemosa (Forsskål) J. Agardh [= *Caulerpa chemnitzia* (Esper) J.V. Lamouroux, *Caulerpa clavifera* (Turner) J. Agardh, *Caulerpa cylindracea* Sonder]

American Samoa & Samoa. AUNU'U: Setchell 1924 as *Caulerpa clavifera*. OFU-OLOSEGA: Skelton & South 2004. TUTUILA: Setchell 1924 as *Caulerpa clavifera*, Skelton 2003a, Skelton & South 2004. UPOLU: Reinbold 1896 as *Caulerpa chemnitzia* and *C. clavifera*, Reinbold 1907, Skelton & South 2002a, 2007. **Cook Islands.** MacRaild 1978. MANGAIA: Dickie 1875 as *Caulerpa cylindracea*. RAROTONGA: N'Yeurt 1999, Skelton & South 2007. **Johnston Atoll.** Buggeln & Tsuda 1969, Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** TABUAERAN: DeWreede & Doty 1970 as *Caulerpa peltata* Lamouroux and *C. racemosa*, Tsuda et al. 1973. **Phoenix Islands.** KANTON: Dawson 1959a. **Tonga.** TONGATAPU: Bailey & Harvey 1874 as *Caulerpa clavifera* (Turner) C. Agardh, Taylor 1966. **Wake Atoll.** Tsuda et al. 2006. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Caulerpa sedoides C. Agardh

American Samoa & Samoa. UPOLU: Reinbold 1907. **Tonga.** TONGATAPU: Dickie 1876.

Caulerpa serrulata (Forsskål) J. Agardh [= *Caulerpa boryana* J. Agardh, *Caulerpa freycinetii* C. Agardh]

American Samoa & Samoa. OFU-OLOSEGA: Skelton & South 2004. SWAINS: Tsuda et al. 2011. TUTUILA: Skelton 2003a, Skelton & South 2004. UPOLU: Skelton & South 2002a, 2007. **Cook Islands.** AITUTAKI: N'Yeurt 1999, Skelton & South 2007. RAROTONGA: N'Yeurt 1999. **Johnston Atoll.** Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. PALMYRA: Howe & Lyon 1916 as *Caulerpa freycinetii*, Dawson et al. 1955, Dawson 1959b, Taylor 1966, 1977. **Phoenix Islands.**

BAKER: Tsuda et al. 2008. HOWLAND: Tsuda & Trono 1968 as *Caulerpa serrulata* var. *typica* f. *serrulata* (Weber-van Bosse) Gilbert, Tsuda et al. 2008. KANTON: Degener & Gillaspy 1955, Dawson 1959a, South et al. 2001, Skelton & South 2007. ORONA: South et al. 2001.

Pitcairn Islands. PITCAIRN: Tsuda 1976. **Tokelau.** FAKAOFO: Skelton & South 2007. **Tonga.** TONGATAPU: Bailey & Harvey 1874 as *Caulerpa freycinetii*, Dickie 1876 as *Caulerpa boryana*. **Wake Atoll.** Tsuda et al. 2006. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Caulerpa sertularioides (S.G. Gmelin) M. Howe [= *Caulerpa plumaris* (Forsskål) C. Agardh]

American Samoa & Samoa. UPOLU: Reinbold 1896 as *Caulerpa plumaris*. **Cook Islands.** AITUTAKI: N'Yeurt 1999. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Caulerpa taxifolia (Vahl) C. Agardh

American Samoa & Samoa. OFU-OLOSEGAA: Skelton & South 2004. TUTUILA: Skelton 2003a. **Cook Islands.** RAROTONGA: N'Yeurt 1999. **Johnston Atoll.** Tsuda et al. 2010b. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Caulerpa urvilleana Montagne

Cook Islands. MANGAIA: Dickie 1875. **Johnston Atoll.** Buggeln & Tsuda 1969. **Line Islands.** MILLENNIUM: Barott et al. 2010. PALMYRA: Howe & Lyon 1916 as *Caulerpa cupressoides* (Vahl) C. Agardh (see Dawson et al. 1955), Dawson et al. 1955, Dawson 1959b, Taylor 1977. TABUAERAN: DeWreede & Doty 1970, Tsuda et al. 1973, Taylor 1977. **Phoenix Islands.** KANTON: Dawson 1959a. **Wake Atoll.** Tsuda et al. 2006.

Note: *Caulerpa urvilleana* and *C. cupressoides* are maintained as separate taxa.

Caulerpa verticillata J. Agardh.

American Samoa & Samoa. TUTUILA: Skelton 2003a, Skelton & South 2004.

Caulerpa webbiana Montagne [= *Caulerpa pickeringii* Harvey & Bailey]

American Samoa & Samoa. OFU-OLOSEGAA: Skelton & South 2004. TUTUILA: Skelton 2003a. **Johnston Atoll.** Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** TABUAERAN: Tsuda et al. 1973. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. **Pitcairn Islands.** HENDERSON and OENO: N'Yeurt & Payri 2007. PITCAIRN: Tsuda 1976 as *Caulerpa pickeringii*.

Note: Kraft (2007) placed *Caulerpa pickeringii* as a synonym of *Caulerpa webbiana* Montagne var. *pickeringii* (Harvey & Bailey) Eubank.

- Caulerpella ambigua* (Okamura) Prud'homme & Lokhorst [= *Caulerpa ambigua* Okamura, *Caulerpa vickersiae* Børgesen]
American Samoa & Samoa. TUTUILA: Skelton 2003a, Skelton & South 2004. UPOLU: Skelton & South 2002a, 2007. **Johnston Atoll.** Buggeln & Tsuda 1969 and Aegegian & Abbott 1985 as *Caulerpa ambigua*, Coles et al. 2001 as *Caulerpa ambigua*. **Line Islands.** JARVIS: Tsuda et al. 2012. PALMYRA: Dawson 1959b as *Caulerpa vickersiae*. TABUAERAN: Tsuda et al. 1973 as *Caulerpa ambigua*. **Phoenix Islands.** MCKEAN: South et al. 2001. RAWAKI: Skelton & South 2007. **Wake Atoll.** Tsuda et al. 2010a.
- Chaetomorpha antennina* (Bory de Saint-Vincent) Kützing
American Samoa & Samoa. TUTUILA: Setchell 1924, Skelton 2003a. UPOLU: Skelton & South 2007.
- Chaetomorpha brachygona* Harvey
American Samoa & Samoa. TUTUILA: Skelton & South 2007. UPOLU: Skelton & South 2002b, 2007.
- Chaetomorpha fibrosa* (Kützing) Kützing
American Samoa & Samoa. UPOLU: Reinbold 1896. **Tonga.** TONGATAPU: N'Yeurt & Payri 2007.
- Chaetomorpha indica* (Kützing) Kützing
American Samoa & Samoa. Reinbold 1896. **Line Islands.** TABUAERAN: Tsuda et al. 1973.
- Chaetomorpha inflata* Kützing
Tonga. TONGATAPU: Dickie 1876.
- Chaetomorpha ligustica* (Kützing) Kützing [= *Chaetomorpha tortuosa* (Dillwyn) Kleen]
American Samoa & Samoa. UPOLU: Reinbold 1907 as *Chaetomorpha tortuosa*.
- Chaetomorpha linum* (O.F. Müller) Kützing
American Samoa & Samoa. UPOLU: Skelton & South 2007. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.
- Chaetomorpha minima* Collins & Hervey
American Samoa & Samoa. UPOLU: Skelton & South 2002b, 2007.
- Chaetomorpha restricta* (Suhr) Kützing
American Samoa & Samoa. TUTUILA: Setchell 1924.
- Chaetomorpha vieillardii* (Kützing) M.J. Wynne [= *Chaetomorpha crassa* (C. Agardh) Kützing]
Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004 as *Chaetomorpha crassa*.
- Chlorodesmis caespitosa* J. Agardh
Tonga. EUA: Ducker 1967. TONGATABU: Ducker 1967.

Chlorodesmis fastigiata (C. Agardh) S.C. Ducker [= *Avrainvillea comosa* (Harvey & Bailey) G. Murray & Boodle, *Chlorodesmis comosa* Harvey & Bailey]

American Samoa & Samoa. AUNU‘U: Setchell 1924 and Ducker 1967 as *Chlorodesmis comosa*. SAVAI‘I: Ducker 1967 as *C. comosa*, Skelton & South 2007. TUTUILA: Setchell 1924 and Ducker 1967 as *C. comosa*, Birkeland et al. 1987, Skelton 2003a. UPOLU: Reinbold 1896 as *C. comosa*, Reinbold 1907 as *Avrainvillea comosa*, Setchell 1943 as *C. comosa*, Ducker 1967 as *C. comosa*, Skelton & South 2002a, 2007. **Cook Islands.** AITUTAKI: Ducker 1967 as *C. comosa*. RAROTONGA: Ducker 1967 and Chapman 1977 as *C. comosa*, N’Yeurt 1999, Skelton & South 2007. **Niue.** Chapman 1977 as *C. comosa*. **Phoenix Islands.** ORONA: South et al. 2001. **Tonga.** Bailey & Harvey 1874. EUA: Ducker 1967 as *C. comosa*. LIFUKA: Ducker 1967 as *C. comosa*. TONGATAPU: Dickie 1876 and Ducker 1967 as *C. comosa*. VAVA‘U: Ducker 1967 as *C. comosa*. **Wallis & Futuna.** WALLIS: N’Yeurt & Payri 2004.

Chlorodesmis hildebrandtii A. Gepp & E. Gepp

Wake Atoll. Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N’Yeurt & Payri 2004.

Cladophora catenata (Linnaeus) Kützing [= *Cladophora luxurians* (W.J. Gilbert) I.A. Abbott & Huisman, *Cladophoropsis luxurians* W.J. Gilbert]

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Cook Islands.** AITUTAKI: N’Yeurt 1999 as *Cladophoropsis luxurians*. **Johnston Atoll.** Tsuda et al. 2010b as *Cladophora luxurians*. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. TABUAERAN: Tsuda et al. 1973 as *Cladophoropsis luxurians*.

Cladophora coelothrix Kützing [= *Cladophoropsis limicola* Setchell]

American Samoa & Samoa. TUTUILA: Setchell 1924 and Skelton 2003a as *Cladophoropsis limicola*. **Cook Islands.** RAROTONGA: N’Yeurt 1999. **Phoenix Islands.** BAKER: Tsuda et al. 2008. **Pitcairn Islands.** PITCAIRN: Tsuda 1976.

Cladophora cristata Kützing

American Samoa & Samoa. UPOLU: Reinbold 1896.

Cladophora dotyana W.J. Gilbert

Johnston Atoll. Tsuda et al. 2010b.

Cladophora feredayi Harvey

Tonga. TONGATAPU: Dickie 1876 as “*Cladophora feredayi*?”.

Cladophora flexuosa (O.F. Müller) Kützing

Johnston Atoll. Tsuda et al. 2010b as *Cladophora* cf. *flexuosa*. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012.

Phoenix Islands. KANTON: Dawson 1959a.

- Cladophora herpestica* (Montagne) Kützing [= *Cladophoropsis herpestica* (Montagne) M. Howe]
- American Samoa & Samoa.** TUTUILA: Skelton 2003a and Skelton & South 2004 as *Cladophoropsis herpestica*. UPOLU: Skelton & South 2007. **Tonga.** TONGATAPU: Bailey & Harvey 1874 as “*Cladophora*” *herpestica*.
- Cladophora liebetruethii* Grunow [= *Cladophora boodleoides* Børgesen]
- American Samoa & Samoa.** UPOLU: Skelton & South 2002b. **Phoenix Islands.** BAKER: Tsuda & Trono 1968 as *Cladophora* sp. based on reexamination, Tsuda et al. 2008 as *Cladophora boodleoides*. RAWAKI: South et al. 2001 as *C. boodleoides*.
- Cladophora mamillata* Leliaert [= *Valonia cladophora* Kützing]
- American Samoa & Samoa.** UPOLU: Reinbold 1896 as *Valonia cladophora*.
- Cladophora patentiramea* (Montagne) Kützing
- American Samoa & Samoa.** UPOLU: Skelton & South 2002a as *Cladophora* sp. aff. *C. albida* (Nees) Kützing, Skelton & South 2007.
- Line Islands.** PALMYRA: Dawson 1959b.
- Cladophora pellucida* (Hudson) Kützing
- Cook Islands.** MANGAIA: Dickie 1875.
- Cladophora perpusilla* Skottsberg & Levring
- Line Islands.** PALMYRA: Dawson et al. 1955 as *Cladophora* cf. *perpusilla*.
- Cladophora rechingeri* Reinbold
- American Samoa & Samoa.** UPOLU: Reinbold 1907 (Type).
- Cladophora samoensis* Grunow
- American Samoa & Samoa.** UPOLU: Reinbold 1896.
- Cladophora sericea* (Hudson) Kützing [= *Cladophora crystallina* (Roth) Kützing]
- Johnston Atoll.** Buggeln & Tsuda 1969 as *Cladophora crystallina*. **Line Islands.** PALMYRA: Dawson 1959b as *C. crystallina*.
- Cladophora socialis* Kützing [= *Cladophoropsis infestans* Setchell]
- American Samoa & Samoa.** TUTUILA: Setchell 1924 as *Cladophoropsis infestans*. **Line Islands.** PALMYRA: Dawson 1959b. TABUAERAN: Tsuda et al. 1973. **Tonga.** Martens 1866. **Wake Atoll.** Tsuda et al. 2010a as *Cladophora* cf. *socialis*.
- Cladophora subsimplex* Kützing
- American Samoa & Samoa.** UPOLU: Reinbold 1907.
- Cladophora timorensis* G. Martens
- American Samoa & Samoa.** UPOLU: Reinbold 1896.
- Cladophora tranquebariensis* (Roth) Kützing
- American Samoa & Samoa.** UPOLU: Reinbold 1896.

Cladophora vagabunda (Linnaeus) C. Hoek [= *Cladophora fascicularis* (Merten ex C. Agardh) Kützing, *Cladophora inserta* (Linnaeus) C. Hoek, *Cladophora mauritiana* Kützing, *Cladophora pinniger* Setchell, *Cladophora zostericola* G. Martens]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Cladophora pinniger*. UPOLU: Reinbold 1896 as *Cladophora zostericola*. **Line Islands.** PALMYRA: Dawson 1959b as *Cladophora inserta*. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. KANTON: Dawson 1959a as *Cladophora fascicularis*. **Tonga.** TONGATAPU: Dickie 1876 as *Cladophora mauritiana*. **Wake Atoll.** Tsuda et al. 2010a as *Cladophora* cf. *vagabunda*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Cladophora valonioides (Sonder) Kützing [= *Cladophora nitidula* (Sonder) Kützing]

American Samoa & Samoa. UPOLU: Reinbold 1907 as *Cladophora nitidula*.

Cladophora spp.

American Samoa & Samoa. UPOLU: Skelton & South 2002a, 2002b, 2007. **Line Islands.** TABUAERAN: Tsuda et al. 1973 (4 spp.). **Phoenix Islands.** KANTON: Degener & Gillaspy 1955.

Cladophoropsis fasciculata (Kjellman) Wille [= *Cladophoropsis sundanensis* Reinbold, *Cladophoropsis carolinensis* Trono, *Cladophora subulosa* Lyon]

American Samoa & Samoa. OFU-OLOSEGAA: Skelton & South 2004 as *Cladophoropsis carolinensis*. TUTUILA: Skelton 2003a and Skelton & South 2004 as *C. carolinensis*. UPOLU: Skelton & South 2002b as *C. carolinensis*, Skelton & South 2007 as *Cladophoropsis sundanensis*. **Line Islands.** PALMYRA: Howe & Lyon 1916 as *Cladophora sabulosa* (see Dawson et al. 1955), Dawson et al. 1955 as *Cladophoropsis sundanensis*. TABUAERAN: Tsuda et al. 1973 as *C. sundanensis*. **Phoenix Islands.** HOWLAND: Tsuda et al. 2008 as *C. sundanensis*. KANTON: Dawson 1959a as *C. sundanensis*. NIKUMARORO: South et al. 2001 as *C. carolinensis*, Skelton & South 2007 as *C. sundanensis*. **Wake Atoll.** Tsuda et al. 2010a as *C. sundanensis*.

Cladophoropsis gracillima E.Y. Dawson

Line Islands. PALMYRA: Dawson 1959b. TABUAERAN: Tsuda et al. 1973. **Phoenix Islands.** BAKER: Tsuda & Trono 1968, Tsuda et al. 2008. HOWLAND: Tsuda & Trono 1968. KANTON: Dawson 1959a. **Pitcairn Islands.** PITCAIRN: Tsuda 1976.

Cladophoropsis membranacea (Hofman Bang ex C. Agardh) Børgesen [= *Boodlea kaenana* Brand]

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Cook Islands.** AITUTAKI: N'Yeurt 1999 as *Boodlea "kaeneana."* RAROTONGA: N'Yeurt 1999 as "*B. kaeneana.*" **Phoenix Islands.** KANTON: Degener & Gillaspy 1955.

Cladophoropsis philippinensis W.R. Taylor

Line Islands. KINGMAN: Tsuda et al. 2012 as *Cladophoropsis* cf. *philippinensis*.

Cladophoropsis spp.

American Samoa & Samoa. UPOLU: Skelton & South 2002a.

Johnston Atoll. Buggeln & Tsuda 1969, Tsuda et al. 2010b. **Line Islands.** MILLENNIUM: Barott et al. 2010.

Codium adhaerens C. Agardh

Cook Islands. RAROTONGA: Chapman 1977.

Codium arabicum Kützing

American Samoa & Samoa. UPOLU: Reinbold 1896, Skelton & South 2002a, 2007. **Cook Islands.** RAROTONGA: N'Yeurt 1999, Skelton & South 2007. **Johnston Atoll.** Buggeln & Tsuda 1969.

Codium arenicola P.C. Silva & M.E. Chacana

American Samoa & Samoa. UPOLU: Skelton & South 2007.

Codium campanulatum P.C. Silva & M.E. Chacana, *sp. ined.*

Johnston Atoll. Buggeln & Tsuda 1969 as *Codium* sp. based on reexamination of specimen, Tsuda et al. 2010b. **Wake Atoll.** Tsuda et al. 2010a.

Note: This species lacks a Latin description and is, therefore, not valid as described in Abbott & Huisman (2004).

Codium edule P.C. Silva

Line Islands. JARVIS: Tsuda et al. 2012. TABUAERAN: DeWreede & Doty 1970, Tsuda et al. 1973. **Phoenix Islands.** BAKER: Tsuda et al. 2008.

Codium geppiorum O.C. Schmidt [= *Codium bulbopilum* Setchell, *Codium geppii* O.C. Schmidt]

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. TUTUILA: Setchell 1924 and Skelton 2003a as *Codium bulbopilum*. UPOLU: Skelton & South 2002a as *C. bulbopilum*, Skelton & South 2007. **Cook Islands.** AITUTAKI: N'Yeurt 1999, Skelton & South 2007. RAROTONGA: N'Yeurt 1999. **Line Islands.** PALMYRA: Dawson 1959b as *Codium geppii*. **Phoenix Islands.** KANTON: Dawson 1959a as *C. geppii*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004 as *C. bulbopilum*.

Note: It remains unclear whether *C. bulbopilum* and *C. geppiorum* represent a single species.

Codium mamillosum Harvey

American Samoa & Samoa. TUTUILA: Skelton 2003a and Skelton & South 2004 as *Codium cf. mamillosum* Harvey. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Codium ovale Zanardini

Phoenix Islands. KANTON: Dawson 1959a.

Codium spongiosum Harvey

Tonga. TONGATAPU: Dickie 1876.

Codium tomentosum Stackhouse

American Samoa & Samoa. UPOLU: Reinbold 1896, 1907. **Cook Islands.** MANGAIA: Dickie 1875. **Tonga.** TONGATAPU: Dickie 1876.

Derbesia attenuata E.Y. Dawson

Line Islands. PALMYRA: Dawson 1959b. TABUAERAN: Tsuda et al. 1973. **Phoenix Islands.** KANTON: Dawson 1959a.

Derbesia fastigiata W.R. Taylor

Johnston Atoll. Tsuda et al. 2010b as *Derbesia cf. fastigiata*.

Derbesia marina (Lyngbye) Solier

American Samoa & Samoa. TUTUILA: Skelton 2003a, Skelton & South 2004, 2007. UPOLU: Skelton & South 2007. **Johnston Atoll.** Buggeln & Tsuda 1969. **Line Islands.** PALMYRA: Dawson 1959b.

Derbesia tenuissima (Moris & Notaris) P. Crouan & H. Crouan

Phoenix Islands. BAKER: Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2006.

Dictyosphaeria australis Setchell

Cook Islands. RAROTONGA: N'Yeurt 1999.

Dictyosphaeria cavernosa (Forsskål) Børgesen [= *Dictyosphaeria favulosa* Decaisne]

American Samoa & Samoa. OFU-OLOSEGA: Skelton & South 2004. SWAINS: Tsuda et al. 2011. TUTUILA: Skelton 2003a, Skelton & South 2004. UPOLU: Reinbold 1907 as *Dictyosphaeria favulosa*, Skelton & South 2007. **Cook Islands.** AITUTAKI: N'Yeurt 1999. RAROTONGA: N'Yeurt 1999. **Johnston Atoll.** Coles et al. 2001. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. PALMYRA: Howe & Lyon 1916 as *Dictyosphaeria favulosa*, Dawson et al. 1955, Dawson 1959b, Braun et al. 2009. TABUAERAN: DeWreede & Doty 1970, Tsuda et al. 1973. **Phoenix Islands.** BAKER: Tsuda & Trono 1968, Tsuda et al. 2008. ENDERBURY: South et al. 2001, Skelton & South 2007. HOWLAND: Tsuda & Trono 1968, Tsuda et al. 2008. KANTON: Degener & Gillaspy 1955, Dawson 1959a, South et al. 2001. NIKUMARORO: South et al. 2001. **Pitcairn Islands.** PITCAIRN: Tsuda 1976. **Wake Atoll.** Bailey & Harvey 1874 as *Dictyosphaeria favulosa*, Tsuda et al. 2006. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

- Dictyosphaeria versluyssii* Weber-van Bosse [= *Dictyosphaeria australis* Setchell]
American Samoa & Samoa. SWAINS: Tsuda et al. 2011. TUTUILA: Setchell 1924, Skelton 2003a. UPOLU: Setchell 1943 as *Dictyosphaeria australis*, Skelton & South 2002a, 2007. **Cook Islands.** RAROTONGA: N'Yeurt 1999, Skelton & South 2007. **Johnston Atoll.** Buggeln & Tsuda 1969, Aegegian & Abbott 1985, Coles et al. 2001, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. PALMYRA: Dawson 1959b. TABUAERAN: DeWreede & Doty 1970, Tsuda et al. 1973. **Phoenix Islands.** BAKER: Tsuda & Trono 1968, Tsuda et al. 2008. RAWAKI: South et al. 2001, Skelton & South 2007. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.
- Flabellia petiolata* (Turner) Nizamuddin [= *Udotea desfontainii* (J.V. Lamouroux) Decaisne]
Tonga. TONGATAPU: Dickie 1876 as *Udotea desfontainii*.
- Gomontia* sp.
American Samoa & Samoa. ROSE: Setchell 1924.
- Halimeda bikinensis* W.R. Taylor
American Samoa & Samoa. Littler & Littler 2003. **Line Islands.** TABUAERAN: Tsuda et al. 1973. **Phoenix Islands.** NIKUMARORO: South et al. 2001.
- Halimeda borneensis* W.R. Taylor
Cook Islands. RAROTONGA: Chapman 1977 as *Halimeda simulans* M. Howe. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.
 Note: *Halimeda simulans* is considered an Atlantic species (Kooistra et al. 2002) and *H. borneensis* the Indo-Pacific species.
- Halimeda cuneata* K. Hering
Phoenix Islands. MANRA: South et al. 2001. NIKUMARORO: South et al. 2001. RAWAKI: South et al. 2001.
- Halimeda cylindracea* Decaisne
Tonga. Hillis 1959.
- Halimeda discoidea* Decaisne
American Samoa & Samoa. Littler & Littler 2003 as *Halimeda* cf. *discoidea*. TUTUILA: Birkeland et al. 1987. **Cook Islands.** Hillis 1959. RAROTONGA: N'Yeurt 1999. **Johnston Atoll.** Buggeln & Tsuda 1969, Coles et al. 2001. **Line Islands.** PALMYRA: Howe & Lyon 1916 as *Halimeda macroloba* Decaisne (see Dawson et al. 1955), Dawson et al. 1955, Dawson 1959b. TABUAERAN: Tsuda et al. 1973.
- Halimeda distorta* (Yamada) Hillis [= *Halimeda hederacea* (E.S. Barton) Colinvaux]
American Samoa & Samoa. TUTUILA: Hillis 1959. UPOLU: Skelton & South 2002a as *Halimeda copiosa* Goreau & Graham. **Cook Islands.** Hillis 1959. RAROTONGA: N'Yeurt 1999 as *H. copiosa*. **Line Islands.**

PALMYRA: Hillis 1959. **Phoenix Islands.** KANTON: South et al. 2001 as *H. copiosa*. **Tonga.** Hillis 1959. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004 as *H. distorta* and *H. hederacea*.

Note: *Halimeda hederacea* was synonymized with *Halimeda distorta*, and *Halimeda copiosa* is now considered an Atlantic species (Kooistra & Verbruggen 2005).

Halimeda fragilis W.R. Taylor

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. PALMYRA: Dawson 1959b. TABUAERAN: DeWreede & Doty 1970, Tsuda et al. 1973. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. KANTON: Dawson 1959a.

Halimeda gigas W.R. Taylor

American Samoa & Samoa. Littler & Littler 2003.

Halimeda gracilis Harvey ex J. Agardh

American Samoa & Samoa. TUTUILA: Skelton 2003a, Skelton & South 2004. OFU-OLOSEGA: Skelton & South 2004. **Johnston Atoll.** Aegegian & Abbott 1985. **Line Islands.** PALMYRA: Dawson 1959b. TABUAERAN: Tsuda et al. 1973. **Phoenix Islands.** MANRA: South et al. 2001. ORONA: South et al. 2001. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Halimeda heteromorpha N'Yeurt

American Samoa & Samoa. Reinbold 1896 as *Halimeda incrassata* (J. Ellis) J.V. Lamouroux. TUTUILA: Setchell 1924 as *Halimeda tridens* (J. Ellis & Solander) J.V. Lamouroux, Hillis 1959 and Skelton 2003a as *Halimeda incrassata*. UPOLU: Reinbold 1896 as *Halimeda monile* (J. Ellis & Solander) J.V. Lamouroux, Skelton & South 2002a, 2007 as *H. incrassata*. **Cook Islands.** Hillis 1959 as *H. incrassata*. MANIHIKI: Cranwell 1933 as *H. incrassata*. RAROTONGA: Chapman 1977, N'Yeurt 1999 and Skelton & South 2007 as *H. incrassata*. **Line Islands.** TABUAERAN: Tsuda et al. 1973 as *Halimeda incrassata*. **Phoenix Islands.** BAKER: Tsuda et al. 2008. NIKUMARORO: South et al. 2001 and Skelton & South 2007 as *H. incrassata*. **Pitcairn Islands.** PITCAIRN: Tsuda 1976 as *H. incrassata*. **Tonga.** Hillis 1959 as *H. incrassata*. TONGATAPU: Dickie 1876 as *Halimeda tridens*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004 as *H. incrassata*.

Note: *Halimeda incrassata* and *H. monile* are considered Atlantic species which do not occur in the Pacific and Indian Oceans (Verbruggen et al. 2006). Some specimens with conspicuous bulbous holdfasts (Verbruggen et al. 2006) may be more applicable to the endemic Hawaiian *Halimeda kanaloana* P.S. Vroom.

Halimeda lacunalis W.R. Taylor

Line Islands. KIRITIMATI: Hillis 1959. TABUAERAN: DeWreede & Doty 1970, Tsuda et al. 1973.

Halimeda macroloba Decaisne

American Samoa & Samoa. Littler & Littler 2003. TUTUILA: Setchell 1924, Hillis 1959, Skelton 2003a, Skelton & South 2004. UPOLU: Skelton & South 2007. **Cook Islands.** MANGAIA: Dickie 1875. RAROTONGA: Chapman 1977. **Tonga.** Hillis 1959. TONGATAPU: Dickie 1876. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Halimeda macrophysa Askenasy

American Samoa & Samoa. TUTUILA: Skelton 2003a, Skelton & South 2004. **Tonga.** Hillis 1959.

Halimeda melanescica G. Valet

Phoenix Islands. BAKER: Tsuda et al. 2008.

Halimeda micronesica Yamada

Phoenix Islands. KANTON: Dawson 1959a. **Wake Atoll.** Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Halimeda minima (W.R. Taylor) Colinvaux

American Samoa & Samoa. TUTUILA: Skelton 2003a, Skelton & South 2004. UPOLU: Skelton & South 2007. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Halimeda opuntia (Linnaeus) J.V. Lamouroux

American Samoa & Samoa. TUTUILA: Setchell 1924, Birkeland et al. 1987, Skelton 2003a. UPOLU: Reinbold 1896, 1907, Skelton & South 2002a, 2007. **Cook Islands.** AITUTAKI: N'Yeurt 1999. MANGAIA: Dickie 1875. RAROTONGA: Chapman 1977, N'Yeurt 1999. **Johnston Atoll.** Coles et al. 2001. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. MILLENNIUM: Barott et al. 2010. PALMYRA: Howe & Lyon 1916, Dawson et al. 1955, Dawson 1959b, Braun et al. 2009. **Phoenix Islands.** KANTON: Dawson 1959a. MCKEAN: South et al. 2001. **Tonga.** TONGATAPU: Dickie 1876. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Halimeda renschii Hauck

Wake Atoll. Tsuda et al. 2006.

Halimeda taenicola W.R. Taylor

American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Johnston Atoll.** Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. PALMYRA: Hillis 1959, Braun et al. 2009. **Phoenix Islands.** RAWAKI: South et al. 2001. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Halimeda tuna (J. Ellis & Solander) J.V. Lamouroux

American Samoa & Samoa. UPOLU: Skelton & South 2007 as *Halimeda cf. tuna*. **Cook Islands.** RAROTONGA: Chapman 1977.

Johnston Atoll. Moul 1964, Buggeln & Tsuda 1969. **Tonga.** Hillis 1959.

Halimeda velasquezii W.R. Taylor

Wake Atoll. Tsuda et al. 2006.

Halimeda sp.

Line Islands. TABUAERAN: Tsuda et al. 1973.

Microdictyon japonicum Setchell

American Samoa & Samoa. UPOLU: Skelton & South 2002a, 2007.

Note: Abbott & Huisman (2004) considered *Microdictyon japonicum* a synonym of *M. umbilicatum*; Ohba et al. (2007) considered *M. japonicum* as a distinct species.

Microdictyon pseudohapteron A. Gepp & E. Gepp

Line Islands. PALMYRA: Dawson et al. 1955, Dawson 1959b.

Microdictyon setchellianum M. Howe

American Samoa & Samoa. SWAINS: Tsuda et al. 2011 as *Microdictyon umbilicatum* (Velley) Zanardini (misapplied name).

Johnston Atoll. Buggeln & Tsuda 1969, Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. **Phoenix Islands.** BAKER: Tsuda et al. 2008.

Microdictyon tenuis J.E. Gray [= *Microdictyon agardhianum* Decaisne]

Tonga. TONGATAPU: Dickie 1876 as *Microdictyon agardhianum*.

Microdictyon umbilicatum (Velley) Zanardini

American Samoa & Samoa. ROSE: Setchell 1924. **Johnston Atoll.** Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012.

Neomeris annulata Dickie

American Samoa & Samoa. TUTUILA: Setchell 1924, Birkeland et al. 1987, Skelton 2003a. UPOLU: Skelton & South 2002a, 2007. **Phoenix Islands.** MCKEAN: South et al. 2001. ORONA: South et al. 2001. **Wake Atoll.** Tsuda et al. 2006.

Neomeris bilimbata J. Koster

Johnston Atoll. Tsuda et al. 2010b. **Line Islands.** PALMYRA: Dawson 1959b.

Neomeris dumetosa J.V. Lamouroux

American Samoa & Samoa. Littler & Littler 2003. **Tonga.** TONGATAPU: Dickie 1876.

Neomeris van-bosseae M. Howe

American Samoa & Samoa. OFU-OLOSEGA: Skelton & South 2004. TUTUILA: Skelton 2003a, Skelton & South 2004. UPOLU: Skelton & South 2007. **Cook Islands.** AITUTAKI: N'Yeurt 1999. RAROTONGA: N'Yeurt 1999. **Line Islands.** KINGMAN: Tsuda et al. 2012. TABUAERAN: DeWreede & Doty 1970, Tsuda et al. 1973.

- Ostreobium queketti* Bornet & Flahault [= *Ostreobium reineckeii* Bornet]
American Samoa & Samoa. Reinbold 1896 as *Ostreobium reineckeii*. ROSE: Setchell 1924 as *O. reineckeii*. TUTUILA: Setchell 1924 as *O. reineckeii*. **Johnston Atoll.** Buggeln & Tsuda 1969 as *Ostreobium reineckeii*. **Line Islands.** TABUAERAN: Tsuda et al. 1973 as *O. reineckeii*.
- Palmophyllum crassum* (Naccari) Rabenhorst
American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. **Wake Atoll.** Tsuda et al. 2010a.
- Parvocaulis clavatus* (Yamada) S. Berger et al. [= *Acetabularia clavata* Yamada]
American Samoa & Samoa. OFU-OLOSEGA: Skelton & South 2004 as *Parvocaulis clavata*. TUTUILA: Skelton 2003a as *P. clavata*. **Johnston Atoll.** Buggeln & Tsuda 1969 as *Acetabularia clavata*. **Line Islands.** TABUAERAN: Tsuda et al. 1973 as *A. clavata*. **Wake Atoll.** Tsuda et al. 2010a.
- Parvocaulis exiguum* (Solms-Laubach) S. Berger et al. [= *Acetabularia tsengiana* Egerod]
American Samoa & Samoa. TUTUILA: Skelton 2003a and Skelton & South 2004, 2007 as *Parvocaulis exigua*. UPOLU: Skelton & South 2007 as *P. exigua*. **Johnston Atoll.** Buggeln & Tsuda 1969 as *Acetabularia tsengiana*. **Phoenix Islands.** MCKEAN: Skelton & South 2007. **Wake Atoll.** Tsuda et al. 2010a.
- Parvocaulis parvulus* (Solms-Laubach) S. Berger et al. [= *Acetabularia mobii* Solms-Laubach, *Acetabularia parvula* Solms-Laubach]
American Samoa & Samoa. OFU-OLOSEGA: Skelton & South 2004 as *Parvocaulis parvula*. TUTUILA: Skelton 2003a and Skelton & South 2004 as *P. parvula*. UPOLU: Skelton & South 2002a as *Acetabularia parvula*, Skelton & South 2007. **Johnston Atoll.** Buggeln & Tsuda 1969 as *Acetabularia mobii*. **Line Islands.** TABUAERAN: Tsuda et al. 1973 as *A. mobii*. **Phoenix Islands.** MCKEAN: South et al. 2001 as *A. parvula*. **Wake Atoll.** Tsuda et al. 2010a.
- Parvocaulis polyphysoides* (P. Crouan & H. Crouan) Berger et al.
American Samoa & Samoa. UPOLU: Skelton & South 2007.
- Pedobesia clavaeformis* (J. Agardh) MacRaid & Womersley
American Samoa & Samoa. SWAINS: Tsuda et al. 2011.
- Pedobesia ryukyuensis* (Yamada & Tak. Tanaka) Kobara & Chihara [= *Derbesia ryukyuensis* Yamada & Tak. Tanaka]
Line Islands. PALMYRA: Dawson 1959b as *Derbesia ryukyuensis*.
- Pedobesia simplex* (Meneghini ex Kützing) M.J. Wynne & Leliaert
Line Islands. JARVIS: Tsuda et al. 2012 as *Pedobesia* cf. *simplex*. KINGMAN: Tsuda et al. 2012 as *P. cf. simplex*.

- Phaeophila dendroides* (P. Crouan & H. Crouan) Batters [= *Phaeophila engleri* Reinke]
Line Islands. PALMYRA: Dawson et al. 1955 as *Phaeophila engleri*.
Phyllodictyon anastomosans (Harvey) Kraft & M.J. Wynne
American Samoa & Samoa. OFU-OLOSEGA: Skelton & South 2004.
SWAINS: Tsuda et al. 2011. TUTUILA: Skelton 2003a. UPOLU: Skelton & South 2002a, 2007. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.
Pseudobryopsis oahuensis Egerod [= *Trichosolen oahuensis* (Egerod) W.R. Taylor]
Johnston Atoll. Coles et al. 2001 as *Trichosolen oahuensis*.
Pseudochlorodesmis abbreviata W.J. Gilbert [= *Siphonogramen abbreviata* (W.J. Gilbert) I.A. Abbott & Huisman]
Johnston Atoll. Tsuda et al. 2010b. **Phoenix Islands.** HOWLAND: Tsuda et al. 2008.
Note: Verbruggen et al. (2009) maintained the genus *Pseudochlorodesmis* over *Siphonogramen*.
Pseudochlorodesmis furcellata (Zanardini) Børgesen
Line Islands. JARVIS: Tsuda et al. 2012. **Phoenix Islands.** NIKU-MARORO: South et al. 2001.
Pseudochlorodesmis parva W.J. Gilbert [= *Siphonogramen parvum* (W.J. Gilbert) I.A. Abbott & Huisman]
Johnston Atoll. Buggeln & Tsuda 1969, Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012.
Rhipidiphyllon reticulatum (Askenasy) Heydrich
Line Islands. TABUAERAN: Tsuda et al. 1973.
Rhipidosiphon javensis Montagne
American Samoa & Samoa. OFU-OLOSEGA: Skelton & South 2004. TUTUILA: Skelton 2003a. UPOLU: Skelton & South 2002a, 2007.
Cook Islands. AITUTAKI: N'Yeurt 1999, Skelton & South 2007.
Johnston Atoll. Tsuda et al. 2010b. **Phoenix Islands.** KANTON: South et al. 2001, Skelton & South 2007. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.
Rhipilia geppiorum W.R. Taylor
American Samoa & Samoa. SWAINS: Tsuda et al. 2011. **Line Islands.** PALMYRA: Doty 1954 as *Rhipilia geppii*, Dawson et al. 1955 as *R. geppii*. **Phoenix Islands.** MCKEAN: South et al. 2001 as *R. geppii*. ORONA: South et al. 2001 as *R. geppii*. RAWAKI: South et al. 2001 as *R. geppii*.
Rhipilia orientalis A. Gepp & E. Gepp [= *Rhipilia diaphana* W.R. Taylor]

Phoenix Islands. MCKEAN: South et al. 2001 as *Rhipilia diaphana*.

NIKUMARORO: South et al. 2001. ORONA: South et al. 2001.

RAWAKI: South et al. 2001.

Note: Millar & Kraft (2001) compared the Type collections of *Rhipilia diaphana* and *Rhipilia orientalis*, and found them identical in habit and structure.

Rhipilia tomentosa Kützing

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Rhipiliopsis howensis Kraft

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Rhizoclonium africanum Kützing [= *Rhizoclonium samoense* Setchell]

American Samoa & Samoa. AUNU'U: Setchell 1924 as *R. samoense*, Skelton & South 2007. TUTUILA: Setchell 1924 as *Rhizoclonium samoense*, Skelton 2003a, Skelton & South 2004, 2007. UPOLU: Skelton & South 2002b, 2007. **Cook Islands.** AITUTAKI: N'Yeurt 1999 as *Rhizoclonium africanum* and *R. samoense*.

Rhizoclonium riparium (Roth) Harvey [= *Rhizoclonium implexum* (Dillwyn) Kützing]

American Samoa & Samoa. AUNU'U: Setchell 1924 as *Rhizoclonium implexum*. **Line Islands.** PALMYRA: Dawson et al. 1955 as *R. implexum*. **Phoenix Islands.** BAKER: Tsuda et al. 2008.

Rhizoclonium tortuosum (Dillwyn) Kützing

American Samoa & Samoa. UPOLU: Reinbold 1896.

Siphonocladus infestans Setchell

Tonga. NIUAFO'OU: Howe 1932.

Note. The status of this species is not clear, it is not listed in Guiry & Guiry 2012.

Siphonocladus tropicus (P. Crouan & H. Crouan) J. Agardh

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Sporocladopsis erythraea Nasr

American Samoa & Samoa. TUTUILA: Skelton 2003a, Skelton & South 2004.

Tydemania expeditionis Weber-van Bosse

American Samoa & Samoa. OFU-OLOSEGA: Skelton & South 2004, 2007. TA'U: Skelton & South 2002a, 2007. TUTUILA: Skelton 2003a.

Udotea geppiorum Yamada

Tonga. Yamada 1930 as *Udotea geppii*.

Udotea palmetta Decaisne

Phoenix Islands. BAKER: Tsuda et al. 2008.

Ulothrix flacca (Dillwyn) Thuret [= *Ulothrix pseudoflacca* Wille]

Johnston Atoll. Coles et al. 2001 as *Ulothrix pseudoflacca*.

Ulva clathrata (Roth) C. Agardh [= *Enteromorpha clathrata* (Roth) Greville, *Enteromorpha crinita* Nees]

American Samoa & Samoa. Reinbold 1896 as *Enteromorpha clathrata* and *E. crinita*. SWAINS: Tsuda et al. 2011. TUTUILA: Setchell 1924 as *Enteromorpha clathrata*, Skelton 2003a, Skelton & South 2007. UPOLU: Skelton & South 2002a, 2002b as *E. clathrata*, Skelton & South 2007. **Cook Islands.** RAROTONGA: Skelton & South 2007. **Johnston Atoll.** Coles et al. 2001 as *E. clathrata*, Tsuda et al. 2010b. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. PALMYRA: Dawson et al. 1955 as *E. clathrata*. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008. KANTON: Dawson 1959a as *E. clathrata*. **Wake Atoll.** Tsuda et al. 2006 as *E. clathrata*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Ulva compressa Linnaeus [= *Enteromorpha compressa* (Linnaeus) Nees]

American Samoa & Samoa. TUTUILA: Skelton 2003a. UPOLU: Reinbold 1896 as *Enteromorpha compressa*. **Tonga.** TONGATAPU: Bailey & Harvey 1874 as *E. compressa*.

Ulva flexuosa Wulfen [= *Enteromorpha flexuosa* (Wulfen) J. Agardh, *Enteromorpha lingulata* J. Agardh, *Enteromorpha paradoxa* (C. Agardh) Kützing, *Enteromorpha plumosa* Kützing, *Enteromorpha tubulosa* (Kützing) Kützing]

American Samoa & Samoa. Reinbold 1896. TUTUILA: Setchell 1924 as *Enteromorpha flexuosa*. UPOLU: Reinbold 1896 as *Enteromorpha paradoxa*. **Cook Islands.** AITUTAKI: N'Yeurt 1999 as *E. flexuosa*. RAROTONGA: N'Yeurt 1999 as *E. flexuosa*. **Line Islands.** PALMYRA: Howe & Lyon 1916 as *Enteromorpha plumosa*, Dawson 1959b as *Enteromorpha tubulosa*. TABUAERAN: DeWreede & Doty 1970 and Tsuda et al. 1973 as *Enteromorpha lingulata*. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Ulva intestinalis Linnaeus [= *Enteromorpha intestinalis* (Linnaeus) Link]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Enteromorpha intestinalis*, Skelton 2003a. UPOLU: Reinbold 1896 as *E. intestinalis*, Skelton & South 2007. **Line Islands.** PALMYRA: Dawson 1959b as *E. intestinalis*.

Ulva kylinii (Bliding) Hayden et al. [= *Enteromorpha kylinii* Bliding]

Johnston Atoll. Buggeln & Tsuda 1969 as *Enteromorpha kylinii*. **Line Islands.** PALMYRA: Dawson et al. 1955 as *E. kylinii*. **Phoenix Islands.** BAKER: Tsuda & Trono 1968 as *E. kylinii*. KANTON: Dawson 1959a as *E. kylinii*.

Ulva lactuca Linnaeus

Cook Islands. RAROTONGA: Chapman 1977, N'Yeurt 1999. **Line Islands.** JARVIS: Tsuda 1968 as *Ulva fasciata*, Tsuda et al. 2012.

KINGMAN: Tsuda et al. 2012. KIRITIMATI: Tsuda 1968 as *U. fasciata*. TABUAERAN: DeWreede & Doty 1970 and Tsuda et al. 1973 as *U. fasciata* Delile. **Phoenix Islands.** BAKER: Tsuda & Trono 1968 as *U. fasciata*. ENDERBURY: Tsuda 1968 as *U. fasciata*. HOWLAND: Tsuda & Trono 1968 as *U. fasciata*, Tsuda et al. 2008 as *U. fasciata*. KANTON: Degener & Gillaspy 1955.

Note: The study by O'Kelly et al. (2010) on Hawaiian *Ulva* showed DNA sequences on what was recognized as *Ulva fasciata* to be more applicable to *Ulva lactuca*.

Ulva latissima Linnaeus

Cook Islands. MANGAIA: Dickie 1875 as *Ulva latissima*. **Tonga.** TONGATAPU: Dickie 1876 as *U. latissima*.

Note: Both specimens identified by Dickie (1875, 1876) as *Ulva latissima* are most probably an Ulvaceae and not the Laminariaceae *Saccharina latissima* (Linnaeus) C.E. Lane, C. Mayes, Druehl & G.W. Saunders which is recognized as the current name of the synonym *Ulva latissima*.

Ulva prolifera O.F. Müller [= *Enteromorpha compressa* var. *trichodes* Kützing, *Enteromorpha prolifera* (O.F. Müller) J. Agardh, *Enteromorpha salina* var. *polyclados* Kützing]

American Samoa & Samoa. TUTUILA: Setchell 1924 as *Enteromorpha salina* var. *polyclados*. UPOLU: Reinbold 1907 as *Enteromorpha prolifera*. **Tonga.** TONGATAPU: Dickie 1876 as *Enteromorpha compressa* var. *trichodes*.

Ulva rigida C. Agardh

Phoenix Islands. BAKER: Tsuda et al. 2008.

Ulva sp.

Phoenix Islands. KANTON: Degener & Gillaspy 1955 as *Enteromorpha* sp.

Ulvella lens P. Crouan & H. Crouan

Phoenix Islands. HOWLAND: Tsuda et al. 2008. KANTON: Dawson 1959a.

Valonia aegagropila C. Agardh

American Samoa & Samoa. TUTUILA: Skelton 2003a, Skelton & South 2004. **Cook Islands.** RAROTONGA: N'Yeurt 1999. **Line Islands.** TABUAERAN: Tsuda et al. 1973. **Tonga.** NIUAFO'OU: Howe 1932. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Valonia fastigiata Harvey ex J. Agardh

American Samoa & Samoa. TUTUILA: Setchell 1924, Birkeland et al. 1987, Skelton 2003a. UPOLU: Reinbold 1896, Skelton & South 2002a, 2007. **Cook Islands.** RAROTONGA: N'Yeurt 1999. **Phoenix Islands.** KANTON: South et al. 2001. **Tonga.** NIUAFO'OU: Howe 1932.

TONGATAPU: Dickie 1876. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004.

Valonia macrophysa Kützing

American Samoa & Samoa. OFU-OLOSEGAG: Skelton & South 2004.

TUTUILA: Skelton 2003a. **Line Islands.** JARVIS: Tsuda et al. 2012.

Wallis & Futuna. WALLIS: N'Yeurt & Payri 2004.

Valonia utricularis (Roth) C. Agardh

American Samoa & Samoa. UPOLU: Skelton & South 2007. **Line Islands.** JARVIS: Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012.

PALMYRA: Dawson 1959b. **Phoenix Islands.** BAKER: Tsuda et al. 2008. HOWLAND: Tsuda et al. 2008.

Valonia ventricosa J. Agardh [= *Ventricaria ventricosa* (J. Agardh) Olsen & J.A. West]

American Samoa & Samoa. Reinbold 1896. SAVAI'I: Skelton & South 2007 as *Ventricaria ventricosa*. TUTUILA: Skelton 2003a as *Ventricaria ventricosa*. UPOLU: Skelton & South 2002a, 2007 as *Ventricaria ventricosa*.

Cook Islands. AITUTAKI: N'Yeurt 1999 as *Ventricaria ventricosa*.

RAROTONGA: N'Yeurt 1999 and Skelton & South 2007 as *Ventricaria ventricosa*. **Johnston Atoll.** Buggeln & Tsuda 1969, Tsuda et al. 2010b. **Line Islands.** KINGMAN: Tsuda et al. 2012. **Phoenix Islands.** BAKER: Tsuda et al. 2008 as *Ventricaria ventricosa*.

Wake Atoll. Tsuda et al. 2010a. **Wallis & Futuna.** WALLIS: N'Yeurt & Payri 2004 as *Ventricaria ventricosa*.

Valonia sp.

Phoenix Islands. KANTON: Degener & Gillaspy 1955.

III. ISLAND-REFERENCE INDEX

American Samoa & Samoa. Bailey & Harvey 1874, Littler & Littler 2003. AUNU'A: Setchell 1924, Ducker 1967, Skelton & South 2007. OFU-OLOSEGAG: Hollenberg 1968c, 1968d, Skelton & South 2004, 2007. ROSE: Setchell 1924. SAVAI'I: Reinbold 1896, 1907, Foslie 1907, Taylor 1964, Ducker 1967, Skelton & South 2007. SWAINS: Tsuda et al. 2011. TA'U: Skelton & South 2002a, 2004, 2007. TUTUILA: Harvey & Bailey 1851, Setchell 1924, Hillis 1959, Taylor 1964, Ducker 1967, Hollenberg 1968a, 1968b, 1968c, 1968d, Birkeland et al. 1987, South & Skelton 2000, Skelton 2003a, Skelton & South 2004, 2007. UPOLU: Grunow 1874, Reinbold 1896, 1907, Foslie 1907, Schmidt 1928, Setchell 1943, Taylor 1964, Ducker 1967, South & Skelton 1999, 2000, Skelton & South 2002a, 2002b, Skelton et al. 2004, Skelton & South 2007.

Cook Islands. Hillis 1959, MacRaild 1978. AITUTAKI: Ducker 1967, N'Yeurt 1999, Littler & Littler 2003, Skelton & South 2007. MANGAIA: Dickie 1875, N'Yeurt & Payri 2006. MANIHIKI: Cranwell 1933, N'Yeurt & Payri 2009,

2010. PALMERSTON: N'Yeurt & Payri 2009. RAROTONGA: Taylor 1964, Ducker 1967, Chapman 1977, N'Yeurt 1999, Skelton & South 2007, N'Yeurt & Payri 2010.

Johnston Atoll. Moul 1964, Hollenberg 1968a, 1968c, 1968d, Buggeln & Tsuda 1969, Aegean & Abbott 1985, Baker et al. 1997, Coles et al. 2001, Kraft & Abbott 2002, Tsuda et al. 2010b.

Line Islands. JARVIS: Taylor 1964, Hollenberg 1968a, 1968c, Tsuda 1968, Tsuda et al. 2012. KINGMAN: Tsuda et al. 2012. KIRITIMATI: Hillis 1959, Taylor 1964, 1966, Hollenberg 1968a, 1968c, Tsuda 1968. MILLENIUM: Barott et al. 2010. PALMYRA: Howe & Lyon 1916, Doty 1954, Dawson et al. 1955, Hillis 1959, Dawson 1959b, Taylor 1964, 1966, 1977, Hollenberg 1968a, Skelton & South 2007, Braun et al. 2009, Knapp et al. 2011. TABUAERAN: DeWreede & Doty 1970, Tsuda et al. 1973, Taylor 1977.

Niue. Chapman 1977.

Phoenix Islands. BAKER: Tsuda & Trono 1968, Tsuda et al. 2008. BIRNIE: Hollenberg 1968a, 1968c. ENDERBURY: Hollenberg 1967, 1968a, 1968c, Tsuda 1968, South et al. 2001, Skelton & South 2007. HOWLAND: Hollenberg 1968c, Tsuda & Trono 1968, Tsuda et al. 2008. KANTON: Degener & Gillaspy 1955, Degener & Degener 1959, Dawson 1959a, Taylor 1964, Hollenberg 1968a, South et al. 2001, Skelton & South 2007. MANRA: South et al. 2001, Skelton & South 2007. MCKEAN: Grunow 1874, Schmidt 1928, Hollenberg 1968a, 1968b, 1968d, South et al. 2001, Skelton & South 2007. NIKUMARORO: Hollenberg 1968a, 1968c, 1968d, South et al. 2001, Skelton & South 2007. ORONA: South et al. 2001, Skelton & South 2007. RAWAKI: Hollenberg 1968a, South et al. 2001, Skelton & South 2007.

Pitcairn Islands. HENDERSON: N'Yeurt & Payri 2007. OENO: N'Yeurt & Payri 2007. PITCAIRN: Tsuda 1976, N'Yeurt & Payri 2006, 2010.

Tokelau. FAKAOFO: Skelton & South 2007.

Tonga. Martens 1866, Bailey & Harvey 1874, Yamada 1930, Hillis 1959, Papenfuss 1967, Skelton & South 2007. EUA: Ducker 1967. HA'AFEVA: Grunow 1874. LIFUKA: Bailey & Harvey 1874, Grunow 1874, Ducker 1967. NIUAFO'OU: Howe 1932, Taylor 1964. TONGATAPU: Harvey & Bailey 1851, Martens 1866, Bailey & Harvey 1874, Grunow 1874, 1915, Dickie 1876, Taylor 1964, 1966, Ducker 1967, N'Yeurt & Payri 2007. VAVA'U: Bailey & Harvey 1874, Ducker 1967, N'Yeurt & Payri 2007.

Wake Atoll. Bailey & Harvey 1874, Hollenberg 1968d, Tsuda et al. 2006, 2010a.

Wallis and Futuna. WALLIS: N'Yeurt & Payri 2004, Mattio et al. 2009.

Table 1. Number of algal species reported from each island group.

Islands	Cyanobacteria	Rhodophyta	Ochrophyta	Chlorophyta	Total
American Samoa & Samoa	21	214	41	104	380
Cook Islands	5	45	22	39	111
Johnston Atoll	25	108	15	42	190
Line Islands	25	140	13	72	250
Niue	0	1	0	2	3
Phoenix Islands	21	99	12	61	193
Pitcairn Islands	4	6	6	7	23
Tokelau	0	0	0	1	1
Tonga	1	56	18	34	109
Wake Atoll	13	62	20	26	121
Wallis & Futuna	14	126	11	40	191

Discussion

Altogether, 667 marine benthic algal species in 233 genera are listed in this checklist — blue-green algae (37 genera, 68 species), red algae (131 genera, 373 species), brown algae (24 genera, 59 species) and green algae (41 genera, 167 species). Twenty-six species, i.e., 4 blue-green algae, 16 red algae, 3 brown algae and 3 green algae, were Types. Forty-seven additional records where only the generic names were cited (e.g., *Valonia* sp.) are included in Table 1 which presents the number of species reported from each of the island groups. In these cases, only a single taxon was attributed to each genus even though more than one “spp.” may have been cited. The above counts do not reflect these unidentified species. Five of the 47 genera not identified to species were the only representative of that particular genus reported from any of the island groups, and include four red algae (*Haematocelis*, *Kallymenia*, *Sebdenia*, *Spermothamnion*) and one green alga (*Gomontia*). Lobban & Tsuda (2003) reported 649 species of marine benthic algae from Micronesia; genera not identified to species were excluded from the Micronesian checklist.

Based on the number of published algal species, our knowledge of the marine benthic algae of the Samoan Archipelago (380 species), Line Islands (250 species), Phoenix Islands (193 species) and Wallis and Futuna (191 species) is extensive, at least compared to other island groups in Polynesia. The marine flora of the isolated atolls of Johnston (190 species) and Wake (121 species) have been well documented through the efforts of the U.S. National Oceanic and Atmospheric Administration (NOAA) research cruises. On the other hand, our knowledge of the marine flora of the Tokelau Islands (1 species) and Niue Island

(3 species) is almost non-existent. The field guide (N'Yeurt 1999) of algal species from Rarotonga and Aitutaki in the lower Cook Islands is presently being expanded with additional records from worldwide herbaria (A.D.R. N'Yeurt, personal communication, 12 March 2012).

Acknowledgements

This compilation was partially supported by NSF Biological Research Collections Pacific Basin (DBI-1057453) to the Bishop Museum (Shelley A. James, Principal Investigator). Appreciation is extended to Antoine D.R. N'Yeurt, The University of the South Pacific and B.J. Short, Bishop Museum Library, for providing selected references on South Pacific algae. Our sincere appreciation to both Antoine D.R. N'Yeurt and Christopher S. Lobban for their reviews and constructive comments. We would appreciate information on additional references omitted here. This is Contribution No. 2013-002 of the Pacific Biological Survey, Bishop Museum, Honolulu.

References

- Abbott, I.A. 1999. Marine Red Algae of the Hawaiian Islands. Bishop Museum Press, Honolulu.
- Abbott, I.A. & J.M. Huisman. 2004. Marine Green and Brown Algae of the Hawaiian Islands. Bishop Museum Press, Honolulu.
- Aegegian, C.R. & I.A. Abbott. 1985. Deep water macroalgal communities: A comparison between Penguin Bank (Hawaii) and Johnston Atoll. Proceedings of the 5th International Coral Reef Congress, Tahiti 5: 47–50.
- Anagnostidis, K. & J. Komárek. 1988. Modern approach to the classification system of cyanophytes. 3. Oscillatoriaceae. Archiv für Hydrobiologie Supplement 80: 327–472.
- Bailey, J.W. & W.H. Harvey. 1874. Algae. In U.S. Exploring Expedition, Vol. 17, Botany Cryptogamia. Sherman & Co., Philadelphia. p. 153–192. (1862 unofficial publication date).
- Baker, H.K., G.M. Patterson & M. Ikagawa. 1997. Preliminary description of *Borzia elongata* sp. nov., a representative of a valid genus in the Oscillatoriaceae. Archiv für Hydrobiologie, Supplement 118: 1–12.
- Barott, K.L., J.E. Caselle, E.A. Dinsdale, A.M. Friedlander, J.E. Maragos, D. Obura, F.L. Rohwer, S.A. Sandin, J.E. Smith & B. Zgliczynski. 2010. The lagoon of Caroline/Millennium Atoll, Republic of Kiribati: Natural history of a nearly pristine ecosystem. PLoS One 5(6): e10950. doi:10.1371/journal.pone.0010950.
- Birkeland, C., R.H. Randall, R.C. Wass, B.D. Smith & S. Wilkens. 1987. Biological resource assessment of the Fagatele Bay Marine Sanctuary.

- National Oceanic and Atmospheric Administration, Technical Memorandum NOS MEMD 3. Washington D.C., 222 pp.
- Braun, C.L., J.E. Smith & P.S. Vroom. 2009. Examination of algal diversity and benthic community structure at Palmyra Atoll, U.S. Line Islands. pp. 865–869. Proceedings of the 11th International Coral Reef Symposium, Ft. Lauderdale, Florida.
- Brummitt, R.K. & C.E. Powell. 1992. Authors of Plant Names. Royal Botanic Gardens, Kew.
- Buggeln, R.G. & R.T. Tsuda. 1969. A record of benthic marine algae from Johnston Atoll. Atoll Research Bulletin 120: 1–20.
- Chapman, V.J. 1977. Marine algae of Norfolk Island and the Cook Islands. *Botanica Marina* 20: 161–165.
- Choi, H.-G., G.T. Kraft, H.-S. Kim, M.D. Guiry & G.W. Saunders. 2008. Phylogenetic relationships among lineages of the Ceramiaceae (Ceramiales, Rhodophyta) based on nuclear small subunit rDNA sequence data. *Journal of Phycology* 44: 1033–1048.
- Cocquyt, E., H. Verbruggen, F. Leliaert & O. De Clerck. 2010. Evolution and cytological diversification of the green seaweeds (Ulvophyceae). *Molecular Biology and Evolution* 27: 2052–2061.
- Coles, S.L., R.C. DeFelice & D. Minton. 2001. Marine species survey of Johnston Atoll, central Pacific Ocean, June 2000. Bishop Museum Technical Report 19: 1–59.
- Cranwell, L.M. 1933. Flora of Manihiki, Cook Group. Records of the Auckland Institute and Museum 1: 169–171.
- Dawson, E.Y. 1959a. Some marine algae from Canton Atoll. Atoll Research Bulletin 65: 1–6.
- Dawson, E.Y. 1959b. Changes in Palmyra Atoll and its vegetation through the activities of man, 1913–1958. *Pacific Naturalist* 1(2): 1–52.
- Dawson, E.Y., A.A. Aleem & B.W. Halstead. 1955. Marine algae from Palmyra Island with special reference to the feeding habits and toxicology of reef fishes. Allan Hancock Foundation Publication, Occasional Papers 17: 1–39.
- De Clerck, O. 2003. *Dictyota* in the Indian Ocean. *Opera Botanica Belgica* 13: 1–205.
- Degener, O. & I. Degener. 1959. Canton Island, South Pacific (Resurvey of 1958). Atoll Research Bulletin 64: 1–24.
- Degener, O. & E. Gillaspy. 1955. Canton Island, South Pacific. Atoll Research Bulletin 41: 1–51.
- De Smedt, G., O. De Clerck, F. Leliaert, E. Coppejans & L.M. Liao. 2001. Morphology and systematics of the genus *Halymenia* C. Agardh (Halymeniales, Rhodophyta) in the Philippines. *Nova Hedwigia* 73: 293–322.

- DeWrede, R. & M.S. Doty. 1970. Phycological introduction to Fanning Atoll. In Fanning Island Expedition, January 1970. pp. 85–110. Hawaii Institute of Geophysics, University of Hawaii, HIG-70-23.
- Dickie, G. 1875. Notes on algae from the island of Mangaia, South Pacific. *Journal of the Linnean Society, Botany* 15: 30–33.
- Dickie, G. 1876. Contributions to the botany of the Expedition of H.M.S. ‘Challenger’ —Algae, chiefly Polynesian. *Journal of the Linnean Society, Botany* 15: 235–239.
- Doty, M.S. 1954. Distribution of the algal genera *Rhipilia* and *Sargassum* in the Central Pacific. *Pacific Science* 8: 367–368.
- Ducker, S.C. 1967. The genus *Chlorodesmis* (Chlorophyta) in the Indo-Pacific region. *Nova Hedwigia* 13: 145–182.
- Foslie, M. 1907. II. Corallinaceae. In K. Rechinger, Wissenschaftlichen Forschungareise nach den Samoa-Inseln, dem Neuguinea-Archipel und den Salomons-Inseln. *Botanische und Zoologische Ergebnisse* 1: 209–210.
- Gabrielson, P.W. & G.T. Kraft. 1984. The marine algae of Lord Howe Island (N.S.W.): The family Solieriaceae (Gigartinales, Rhodophyta). *Brunonia* 7: 217–251.
- Grunow, A. 1874. Algen der Fidschi-, Tonga- und Samoa-Inseln, gesammelt von Dr. E. Graeffe. *Journal des Museum Godeffroy, Hamburg* 3(6): 23–50.
- Grunow, A. 1915. Additamenta ad cognitionem Sargassorum. *Verhandlungen der K.K. Zoologisch-botanischen Gesellschaft in Wien* 65: 329–448.
- Guiry, M.D. & G.M. Guiry. 2012. AlgaeBase. World-Wide Electronic Publication, National University of Ireland. Galway. <http://www.algaebase.org>.
- Harvey, W.H. & J.W. Bailey. 1851. Descriptions of algae from the Wilkes United States Exploring Expedition in the proceedings of the meeting for December 4, 1850. *Proceedings of the Boston Society of Natural History* 3: 369–378.
- Hernández-Kantún, J.J., A.R. Sherwood, R. Riosmena-Rodriguez, J.M. Huisman & O. De Clerck. 2012. Branched *Halymenia* species (Halymeniaceae, Rhodophyta) in the Indo-Pacific region, including descriptions of *Halymenia hawaiiana* sp. nov. and *H. tondoana* sp. nov. *European Journal of Phycology* 47: 421–432.
- Hillis, L.W. 1959. A revision of the genus *Halimeda* (Order Siphonales). *Publications of the Institute of Marine Science* 6: 321–401.
- Hollenberg, G.J. 1967. New genera in the Rhodomelaceae from the central Pacific. *Bulletin of the Southern California Academy of Science* 66: 201–221.
- Hollenberg, G.J. 1968a. An account of the species of *Polysiphonia* of the central and western tropical Pacific Ocean. I. *Oligosiphonia*. *Pacific Science* 22: 56–98.

- Hollenberg, G.J. 1968b. An account of the species of the red alga *Polysiphonia* of the central and western tropical Pacific Ocean. II. *Polysiphonia*. Pacific Science 22: 198–207.
- Hollenberg, G.J. 1968c. An account of the species of the red alga *Herposiphonia* occurring in the central and western tropical Pacific Ocean. Pacific Science 22: 536–559.
- Hollenberg, G.J. 1968d. Phycological notes. III. New records of marine algae from the central tropical Pacific Ocean. Brittonia 20: 74–82.
- Howe, M.A. 1932. Marine algae from the islands of Panay and Negros (Philippines) and Niuafoou (between Samoa and Fiji). Journal of the Washington Academy of Sciences 22(7): 167–170.
- Howe, M.A. & H.L. Lyon. 1916. Algae. In J.F. Rock, Palmyra Island with a description of its flora. p. 31–32. Privately published in Honolulu, printed by Honolulu Star Bulletin, Ltd.
- Huisman, J.M., I.A. Abbott & C.M. Smith. 2007. Hawaiian Reef Plants. University of Hawai‘i Sea Grant College Program. UNIHI-SeaGrant-BA-03-02.
- Indy, J.R., A.D.R. N’Yeurt & H. Yasui. 2006. Reproductive morphology and taxonomic reappraisal of *Exophyllum wentii* Weber-van Bosse (Rhodomelaceae, Rhodophyta) from Bali Island, Indonesia. Phycological Research 54: 308–316.
- Knapp, I.S., L.S. Godwin, J.E. Smith, C.J. Williams & J.J. Bell. 2011. Records of non-indigenous marine species at Palmyra Atoll in the U.S. Line Islands. Marine Biodiversity Records 4: 7 pp. DOI: 10.1017/S1755267211000078.
- Komárek, J. & K. Anagnostidis. 1989. Modern approach to the classification system of cyanophytes. 4. Nostocales. Archiv für Hydrobiologie Supplement 82: 247–345.
- Kooistra, W.H.C.F. & H. Verbruggen. 2005. Genetic patterns in the calcified tropical seaweeds, *Halimeda opuntia*, *H. distorta*, *H. hederacea*, and *H. minima* (Bryopsidales, Chlorophyta) provide insights in species boundaries and interoceanic dispersal. Journal of Phycology 41: 177–187.
- Kooistra, W.H.C.F., E. Coppejans & C. Payri. 2002. Molecular systematics, historical ecology, and phylogeography of *Halimeda* (Bryopsidales). Molecular Phylogenetics and Evolution 24: 121–138.
- Kraft, G.T. 2007. Algae of Australia: Marine Benthic Algae of Lord Howe Island and the Southern Great Barrier Reef, 1. Green Algae. ABRS, Camberra: CSIRO Publishing, Melbourne.
- Kraft, G.T. & I.A. Abbott. 2002. The anatomy of *Neotenophycus ichthyosteus* gen. et sp. nov. (Rhodomelaceae, Ceramiales), a bizarre red algal parasite from the central Pacific. European Journal of Phycology 37: 269–278.
- Littler, D.S. & M.M. Littler. 2003. South Pacific Reef Plants. Washington D.C., OffShore Graphics, Inc.

- Lobban, C.S. & R.T. Tsuda. 2003. Revised checklist of benthic marine macroalgae and seagrasses of Guam and Micronesia. *Micronesica* 35–36: 54–99.
- MacRaild, G.N. 1978. Marine algae of the Cook and Fiji Islands. In Proceedings of the International Symposium on Marine Biogeography and Evolution in the Southern Hemisphere. Auckland, New Zealand, 17–20 July 1978. NZDSIR Information Service 137: 455–464.
- Maragos, J., J. Miller, J. Gove, E. DeMartini, A.M. Friedlander, S. Godwin, C. Musburger, M. Timmers, R. Tsuda, P. Vroom, E. Flint, E. Lundblad, J. Weiss, P. Ayotte, E. Sala, S. Sandin, S. McTee, T. Wass, D. Siciliano, F. Brainard, D. Obura, S. Ferguson & B. Mundy. 2008. U.S. Coral reefs in the Line and Phoenix Islands, Central Pacific Ocean: History, geology, oceanography, and biology. In B.M. Riegl & R.E. Dodge (Eds.), *Coral Reefs of the World*. Vol. 1. *Coral Reefs of the USA*. pp. 595–642. Springer, NY.
- Martens, G. von. 1866 [1868]. Die Preussische Expedition nach Ost-Asian. Nach Amtlichen Quellen: Botanischer Theil, 152 pp.
- Mattio, L., C.E. Payri & M. Verlaque. 2009. Taxonomic revision and geographic distribution of the subgenus *Sargassum* (Fucales, Phaeophyceae) in the western and central Pacific Islands based on morphological and molecular analysis. *Journal of Phycology* 45: 1213–1227.
- Millar, A.J.K. & D.W. Freshwater. 2005. Morphology and molecular phylogeny of the marine algal order Gelidiales (Rhodophyta) from New South Wales, including Lord Howe and Norfolk islands. *Australian Systematic Botany* 18: 215–263.
- Millar, A.J.K. & G.T. Kraft. 2001. Monograph of the green macroalgal genus *Rhipilia* (Udoteaceae, Halimedales), with a description of *R. crassa* sp. nov. from Australia and the Philippines. *Phycologia* 40: 21–34.
- Motteler, L.S. 2006. Pacific island names, a map and name guide to the new Pacific. *Bishop Museum Bulletin in Cultural and Environmental Studies* 2: 1–95.
- Moul, E.T. 1964. New records of *Halimeda* and *Udotea* for the Pacific area. *Atoll Research Bulletin* 106: 1–10.
- N'Yeurt, A.D.R. 1999. A Preliminary Illustrated Field Guide to the Common Marine Algae of the Cook Islands. World Wide Fund for Nature, Rarotonga. 74 pp.
- N'Yeurt, A.D.R. 2002. A revision of *Amansia glomerata* C. Agardh, *Amansia rhodantha* (Harvey) J. Agardh and *Melanamansia glomerata* (C. Agardh) R.E. Norris (Rhodophyta: Rhodomelaceae). *Botanica Marina* 45: 231–242.
- N'Yeurt, A.D.R. & C.E. Payri. 2004. A preliminary annotated checklist of the marine algae and seagrasses of the Wallis Islands (French Overseas

- Territory of Wallis and Futuna), South Pacific. Australian Systematic Botany 17: 367–397.
- N'Yeurt, A.D.R. & C.E. Payri. 2006. Marine algal flora of French Polynesia. I. Phaeophyceae (brown algae). Cryptogamie, Algologie 27: 111–152.
- N'Yeurt, A.D.R. & C.E. Payri. 2007. Marine algal flora of French Polynesia. II. Chlorophyceae. Cryptogamie, Algologie 28: 3–88.
- N'Yeurt, A.D.R. & C.E. Payri. 2009. Four new species of Rhodophyceae from Fiji, Polynesia and Vanuatu, South Pacific. Phycological Research 57: 12–24.
- N'Yeurt, A.D.R. & C.E. Payri. 2010. Marine algal flora of French Polynesia. III. Rhodophyta, with additions to the Phaeophyceae and Chlorophyta. Cryptogamie, Algologie 31: 1–205.
- Ohba, H., S. Victor, Y. Golbuu & H.Yukihira. 2007. Tropical Marine Plants of Palau. Palau International Coral Reef Center.
- O'Kelly, C.J., A. Kurihara, T.C. Shipley & A.R. Sherwood. 2010. Molecular assessment of *Ulva* spp. (Ulvophyceae, Chlorophyta) in the Hawaiian Islands. Journal of Phycology 46: 728–735.
- Papenfuss, G.F. 1967. The history, morphology and taxonomy of *Hormophysa* (Fucales: Cystoseiraceae). Phytomorphology 17: 42–47.
- Payri, C.E. & A. Meinesz. 1985. Algae. In B. Delesalle, R. Galzin & B. Salvat (Eds.), Proceedings of the 5th International Coral Reef Congress, Tahiti, 27 May – 1 June 1985, Antenne Museum-EPHE, Moorea, French Polynesia, 1: 498–518.
- Payri, C.E. & A.D.R. N'Yeurt. 1997. A revised checklist of Polynesian benthic marine algae. Australian Systematic Botany 10: 867–910.
- Price, I.R. & F.J. Scott. 1992. The Turf Algae Flora of the Great Barrier Reef. Part I. Rhodophyta. James Cook University of North Queensland, Townsville.
- Reinbold, D.T. 1896. Meersalgen (Schizophyceae, Chlorophyceae, Phaeophyceae, Rhodophyceae). In F. Reinecke, Die Flora der Samoa-Inseln. Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie 23: 266–275.
- Reinbold, D.T. 1907. I. Meersalgen. In K. Rechinger, Wissenschaftlichen Forschungsreise nach den Samoa-Inseln, dem NeuGuinea-Archipel und den Salomons-Inseln. Botanische und Zoologisch Ergebnisse 1: 200-208.
- Schmidt, O.C. 1928. Verzeichnis der Meeresalgen von Neu-Guinea und dem westlichen Oceanien. Hedwigia 68: 19–86.
- Setchell, W.A. 1924. American Samoa: Part I. Vegetation of Tutuila Island. Part II. Ethnobotany of the Samoans. Part III. Vegetation of Rose Atoll. Publications of the Carnegie Institution of Washington 341: vi + 275 p.
- Setchell, W.A. 1943. II. Marine algae, Biological results of last cruise of Carnegie. Carnegie Institution of Washington Publication 555: 15-27.

- Silva, P.C., P.W. Basson & R.L. Moe. 1996. Catalogue of the Benthic Marine Algae of the Indian Ocean. University of California Press, Berkeley.
- Skelton, P.A. 2003a. Appendix A. Algae survey report. pp. 29–40. In S.L. Coles, P.R. Reath, P.A. Skelton, V. Bonito, R.C. DeFelice & L. Basch, Introduced marine species in Pago Pago Harbor, Fagatele Bay and the National Park Coast, American Samoa. Bishop Museum Technical Report 26, 182 pp.
- Skelton, P.A. 2003b. Marine plants of American Samoa. Report prepared for Department of Marine & Wildlife Resources, Government of American Samoa. 103 pp.
- Skelton, P.A. & G.R. South. 1999. A preliminary checklist of the benthic marine algae of the Samoan Archipelago. University of the South Pacific, Marine Studies, Technical Report 99/1, 30 pp.
- Skelton, P.A. & G.R. South. 2000. Guide to the common seaweeds of Palolo Deep Marine Reserve, Apia, Samoa. University of the South Pacific, Marine Studies, Technical Report 2000/02, 18 pp.
- Skelton, P.A. & G.R. South. 2002a. Annotated catalogue of benthic marine algae of the Palolo Deep National Marine Reserve of Samoa. Australian Systematic Botany 15: 135–179.
- Skelton, P.A. & G.R. South. 2002b. Mangrove-associated algae from Samoa, South Pacific. Constancea 83: http://128.32.109.44/fest_mangrove/skelton_south.html (Nov. 15, 2002).
- Skelton, P.A. & G.R. South. 2004. New records and notes on marine benthic algae of American Samoa – Chlorophyta & Phaeophyta. Cryptogamie, Algologie 25: 291–312.
- Skelton, P.A. & G.R. South. 2007. The benthic marine algae of the Samoan Archipelago, South Pacific, with emphasis on the Apia District. Nova Hedwigia 132: 1–350.
- Skelton, P.A., G.R. South & A.J.K. Millar. 2004. *Gracilaria ephemera* sp. nov. (Gracilariales, Rhodophyceae), a flattened species from Samoa, South Pacific. In I.A. Abbott & K.J. McDermid (Eds.), Taxonomy of Economic Seaweeds with Reference to the Pacific and Other Locations, Volume IX. pp. 231–242. Hawaii Sea Grant College Program, Honolulu.
- South, G.R. & P.A. Skelton. 1999. *Amansia paloloensis* sp. nov. (Rhodomelaceae, Rhodophyta) from Samoa, South Pacific. Phycologia 38: 245–250.
- South, G.R. & P.A. Skelton. 2000. A review of *Ceramium* (Rhodophyceae, Ceramiales) from Fiji and Samoa, South Pacific. Micronesica 33: 45–98.
- South, G.R., P.A. Skelton & A. Yoshinaga. 2001. Subtidal benthic marine algae of the Phoenix Islands, Republic of Kiribati, Central Pacific. Botanica Marina 44: 559–570.
- Taylor, W.R. 1964. The genus *Turbinaria* in eastern seas. Journal of the Linnean Society of London, Botany 58: 475–490.

- Taylor, W.R. 1966. Records of Asian and western Pacific marine algae, particularly algae from Indonesia and the Philippines. *Pacific Science* 20: 342–359.
- Taylor, W.R. 1977. Notes on plants of the genus *Caulerpa* in the Herbarium of Maxwell S. Doty at the University of Hawaii. *Atoll Research Bulletin* 208: 1–17.
- Tsuda, R.T. 1968. Distribution of *Ulva* (Chlorophyta) on Pacific Islands. *Micronesica* 4: 365–368.
- Tsuda, R.T. 1976. Some marine benthic algae from Pitcairn Island. *Revue Algologique* 11: 325–331.
- Tsuda, R.T. 1981. Bibliography of marine benthic algae of Micronesia: Addendum. *Micronesica* 17: 213–218.
- Tsuda, R.T. & G. Trono Jr. 1968. Marine benthic algae from Howland Island and Baker Island, central Pacific. *Pacific Science* 22: 194–197.
- Tsuda, R.T. & F.O. Wray. 1977. Bibliography of marine benthic algae in Micronesia. *Micronesica* 13: 85–120.
- Tsuda, R.T., D.J. Russell & M.S. Doty. 1973. Checklist of the marine benthic algae from Fanning Atoll, Line Islands. In *Fanning Island Expedition, July and August, 1972*. pp. 61–67. Hawaii Institute of Geophysics, University of Hawaii, HIG-73-13.
- Tsuda, R.T., I.A. Abbott & K.B. Foster. 2006. Marine benthic algae from Wake Atoll. *Micronesica* 38: 207–219.
- Tsuda, R.T., P.S. Vroom, I.A. Abbott, J.R. Fisher & K.B. Foster. 2008. Additional marine benthic algae from Howland and Baker Islands, Central Pacific. *Pacific Science* 62: 271–290.
- Tsuda, R.T., J.R. Fisher, P.S. Vroom & I.A. Abbott. 2010a. New records of subtidal benthic marine algae from Wake Atoll, Central Pacific. *Botanica Marina* 53: 19–29.
- Tsuda, R.T., I.A. Abbott, P.S. Vroom & J.R. Fisher. 2010b. Marine benthic algae of Johnston Atoll: New species records, spatial distribution, and taxonomic affinities with neighboring islands. *Pacific Science* 64: 585–605.
- Tsuda, R.T., J.R. Fisher & P.S. Vroom. 2011. First records of marine benthic algae from Swains Island, American Samoa. *Cryptogamie, Algologie* 32: 271–291.
- Tsuda, R.T., J.R. Fisher & P.S. Vroom. 2012. Floristic account of the marine benthic algae from Jarvis Island and Kingman Reef, Line Islands, Central Pacific. *Micronesica* 43: 14–50.
- Verbruggen, H., O. De Clerck, A. D.R. N'Yeurt, H. Spalding & P.S. Vroom. 2006. Phylogeny and taxonomy of *Halimeda incrassata*, including descriptions of *H. kanaloana* and *H. heteromorpha* spp. nov. (Bryopsidales, Chlorophyta). *European Journal of Phycology* 41: 337–362.

- Verbruggen, H., C. Vlaeminck, T. Sauvage, A.R. Sherwood, F. Leliaeri & O. DeClerck. 2009. Phylogenetic analysis of *Pseudochlorodesmis* strains reveals cryptic diversity above the family level in the siphonous green algae (Bryopsidales, Chlorophyta). *Journal of Phycology* 45: 726–731.
- Yamada, Y. 1930. Une nouvelle espèce d'*Udotea* du Pacifique: *Udotea Geppii* sp. nov. *Revue Algologique* 5: 139–142.
- Yoon, H.S., K.M. Muller, R.G. Sheath, F.D. Ott & D. Bhattacharya. 2006. Defining the major lineages of red algae (Rhodophyta). *Journal of Phycology* 42: 482–492.

Received 30 Nov. 2012, revised 22 Feb. 2013.